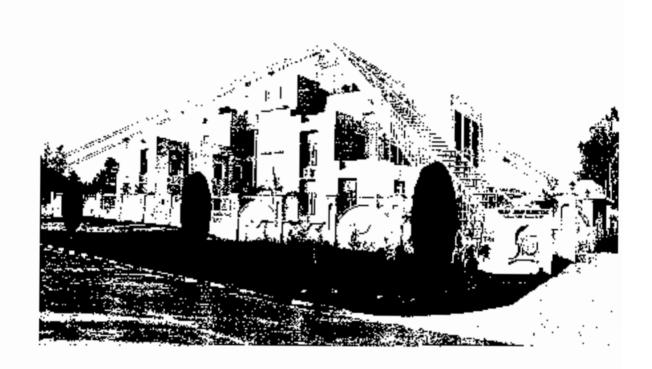


AGENDA FOR 25TH MEETING OF BUILDING & WORKS COMMITTEE 27TH MAY, 2019



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

AGENDA FOR 25TH MEETING OF BUILDING & WORKS COMMITTEE

VENUE: BOARD ROOM

GOLDEN JUBLIEE ADMINISTRATIVE BUILDING

NATIONAL INSTITUTE OF TECHNOLOGY

KURUKSHETRA

DAY : MONDAY

DATE : 27.05.2019

TIME : 11.00 AM

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

CONTENTS

ITEM NO.	DESCRIPTION	PAGES		
25.1	To confirm the minutes of 24 TH meeting of Building & Works Committee held on 06.03.2018			
25.2	To report the action taken on the minutes of the 24 TH meeting of the Building & Works Committee held on 06.03.2018			
25.3	To consider and approve the cost estimates for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments.			
25.4	To consider and approve the cost estimate for the provision of internal & external finishing i.e. distempering & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chawla) and Staff Quarters.	70-125		
25.5	To consider and approve the cost estimate for the construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT, Kurukshetra.	126-146		
25.6	To consider and approve the cost estimate for design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.	147-175		
25.7	To consider and approve the detailed cost estimate for strengthening of existing Cement concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK.	176-186		
25.8	To consider and approve the detailed cost estimate for re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan).	187-194		
25.9	To consider and approve the detailed cost estimate for widening of various roads in the Institute. i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement. ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement. iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.	195-206		
25.10	To consider and approve the cost estimate for the construction of Lawn Tennis Court in including widening and renovation of existing Lawn Tennis Court in the Sports Complex at NIT, Kurukshetra.	207-222		
25.11	To consider and approve the Cost Estimate for Water Proofing Treatment of Cafeteria at Open Air Theatre.	223-235		
25.12	To consider and approve the cost estimate for the Repair work including Civil, Electrical and Audio System works in the Jubilee Hall & Senate Hall at NIT, Kurukshetra.	236-309		
25.13	Any other item			

	MEMBERS OF BUILDING AND WORKS COMMIT	TEE
1.	Dr. Satish Kumar Director, National Institute of Technology, Kurukshetra	Chairman
2.	Nominee of the Central Government On the B & WC of the Institute, (to be nominated by the MHRD) Through Director (NITs), Deptt. of Higher Education, M.H.R.D., Shastri Bhawan, New Delhi-110001	Member
3.	Shri A K Singhal, Director General (Retired), C.P.W.D, Flat No. B-2012, Gaur Green City Vaibhav Khand, Indirapuram, Distt. Ghaziabad-202020(UP)	Member
4.	Prof. A. Swarup Dean (Planning & Development) National Institute of Technology, Kurukshetra	Member
5.	Sh. Rajeshwar Tyagi Executive Engineer (Electrical), Karnal Central, Elect. Division, 208-D, HSIIDC, Sector-3, Karnal (Haryana)-132001	Member
6.	Sh. C.J. Pasrija Executive Engineer (Civil), Karnal Central Division, CPWD NDRI Campus, Near SBI, Karnal (Haryana)-132001	Member
7.	Prof. S. M. Gupta Prof. in-charge (Estate & Construction), National Institute of Technology, Kurukshetra.	Special Invitee
8.	Dr. Aiedapu Mahesh Faculty- in- Charge (Elect. Mtc & Telephone) National Institute of Technology, Kurukshetra.	Special Invitee
9.	Sh. S.N. Kaushik, Assistant Engineer (Civil) National Institute of Technology, Kurukshetra	Special Invitee
10.	Prof. Surinder Deswal Registrar-Incharge National Institute of Technology, Kurukshetra	Member-Secretary

Item 25.1 To confirm the minutes of 24th meeting of Building & Works Committee held on 06.03.2018.

The minutes of the 24th meeting of Building & Works Committee held on 06.03.2018 were circulated amongst the members vide letter No. NIT/24th BWC/1434 dated 26.03.2018. Some comments regarding agenda item No. 24.4 were received from Er. B.P. Singh, Superintending Engineer (Civil), CPWD member of B&WC vide his letter no. CCC/23(NDRI)/2017-18/609 dated 27.03.2018 (copy enclosed). Detailed reply has been furnished in the action taken report under Item No. 24.4. The minutes are enclosed as Annexure from page 2 to 13.

The minutes may please be confirmed.



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

Minutes of the 24th meeting of Building & Works Committee, National Institute of Technology, Kurukshetra held on 06th March, 2018 at 11.00 am in the Board Room of Golden Jubilee Administrative Building of NIT, Kurukshetra.

The following were present:

1. Dr. Satish Kumar

Chairman

Director, National Institute of Technology, Kurukshetra

2. Shri A K Singhal,

Member

Director General (Retired), C.P.W.D, Flat No. B-2012, Gaur Green City Vaibhav Khand, Indirapuram, Distt. Ghaziabad-202020(UP)

3. Prof. D.K. Soni

Member

Dean (Planning & Development) National Institute of Technology, Kurukshetra

4. Er. R.K. Sao

Member

Superintending Engineer (Electrical), Chandigarh Central Electrical Circle, CPWD, Sector 9-A, Chandigarh

5. Sh. B.P.Singh

Member

Superintending Engineer, Chandigarh Central Circle CPWD 2nd Floor, Kendriya Sadan Sector-9A, Chandigarh.

6. Prof. S. M. Gupta

Special Invitee

Prof. in-charge (Estate & Construction), National Institute of Technology, Kurukshetra.

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7. Dr. Jayaram Nakka

Special Invitee

Faculty- in- Charge (Elect. Mtc & Telephone) National Institute of Technology, Kurukshetra

8. Sh. S.N. Kaushik.

Special Invitee

Assistant Engineer (Civil) National Institute of Technology, Kurukshetra

9. Shri G. R. Samantaray

Member-Secretary

Registrar-Incharge National Institute of Technology, Kurukshetra

Nominee of the Central Government on the B&WC of the Institute, Deptt. of Higher Education M.H.R.D., Shastri Bhawan New Delhi-110001 could not attend the meeting.

Before the start of the deliberations, the Hon'ble Director and Chairman Building & Works Committee welcomed all the members present in the meeting. The Chairman, B&WC also extended warm welcome to the new members Shri A K Singhal, Director General (Retired), C.P.W.D and Sh. B. P. Singh Superintending Engineer, Chandigarh Central Circle from CPWD and expressed that their vast experience shall make meaningful contribution to the Committee. The Chairman, Building & Works Committee also placed on record his appreciation for the contribution made by the outgoing members Shri K. N. Rai, Former Chief Executive & Advisor, Ministry of Defence (DRDO) and Er. Mahender Pal Singh, Superintending Engineer, Chandigarh Central Circle, CPWD. At the outset the Chairman B&WC informed and apprised the members regarding the progress of ongoing construction works being executed by CPWD at NIT, Kurukshetra.

The Building & Works Committee decided the following on the various agenda items taken up in the meeting:

BWC 24.1 To confirm the minutes of 23rd meeting of Building & Works Committee held on 03.06.2017.

The minutes of the 23rd meeting of Building & Works Committee held on 03.06.2017 circulated amongst the members vide letter No. NIT/23rd BWC/2373 dated 5.06.2017 were confirmed.

Minutes of 24th Building & Works Committee Meeting held on 06-03-2018

Page 2



BWC 24.2 To report the action taken on the minutes of the 23rd meeting of the Building & Works Committee held on 03.06.2017.

The B&WC noted the action taken on minutes of the 23rd meeting of the Building & Works Committee held on 03.06.2017. The following points were discussed on the action taken report:

Item No.19.2 (16.4): Regarding the work of providing & installation of
electrical Sub-Station HT/LT distribution in Non-residential area, which is
under arbitration, the Executive Engineer (Elect.), CPWD assured that the
decision of arbitrator will be communicated to the Institute as and when
the case is decided along with final expenditure & final Utilization
Certificate.

Further, the Executive Engineer (Elect.) apprised that:

- the work of Installation of HT/LT Sub-Station including feeder pillar in residential area is almost complete;
- the work could not be commissioned due to shortcomings left by previous executive agency of the CPWD; and
- the balance work has been allotted to another agency by CPWD for its execution vide letter No. 54(12)KCED/2018/352 dated 21.02.2018 and will be completed by 20th April, 2018.
- Item No.19.2 (16.10 & 16.11): Regarding the work of LT Panel with MCCB's / MCBs is completed and put to use, final payment has been made to CPWD.

The work of replacement of existing electrical wiring in instructional buildings is completed by CPWD. The defects/shortcomings pointed out by the inspection committee have already been communicated to CPWD for rectification. The CPWD officers apprised that the pending payment for the above said works is not being made by the Institute due to which they are not able to make the payment to the executing agency. Regarding this, it was also resolved that CPWD will submit the draft final bill to the Institute within a week, so that the payment may be released accordingly to CPWD. After making the final payment to the executing

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agency the CPWD will submit the final utilization certificate to the Institute and close the work.

- Item No.19.4: Regarding the estimate for provision of water proofing treatment of existing terrace/mud phaska and concreting/repair etc. in teaching and non-teaching houses was scrutinized jointly by CPWD Officers and Institute Officers: It was decided to defer the item for the time being as per approval of the competent authority.
- Item No.19.10: Regarding the item relates to the work of providing audio visual system in the Board Room of Golden Jubilee Administrative Building including Jubilee Hall & Senate Hall. The work in the Board Room has been completed and the preparation of tendering of balance work of Jubilee hall & Senate Hall is in process.
- Item No.19.11: Regarding the work of construction of peripheral road along the external boundary wall of the Institute for security and maintenance purpose has been kept pending for the time being as per the decision of the 23rd Building & Works Committee. The revised cost estimate may be put up in the next meeting of B&WC
- Item No. 20.5: Regarding the work of Installation of STP is completed and put to use. However, the compliance of defects/shortcomings already conveyed to CPWD will be made shortly. Further, it was resolved that the CPWD will submit the draft final bill of STP within a week, so that the payment may be released and the work may be closed after receipt of final utilization certificate from CPWD. Regarding the work of water distribution network for re-use of treated water for Horticulture and flushing in 600 seater Girls Hostel and 300 seater Multi Purpose Boys Hostel, it was also resolved that the CPWD will submit the cost estimate of the work on the basis of approved design. Accordingly, a separate A/A & E/S for this work will be conveyed to CPWD after approval of the competent authority and the funds for this work will be utilized from the saving of the STP work.

Item No. 21.3: Regarding the work of 600 seater Girls Hostels stands completed and has been handed over and put to use. The work of Fire



Fighting has also been completed. The compliance of defects/ shortcomings of Civil and Electrical installations have also been made by CPWD. Whereas, the missing items recorded jointly are to be provided by CPWD to the Institute. It was also resolved that the CPWD will submit the draft final bill along with the inventory of fire-fighting system, so that the payment may be released accordingly to CPWD. After making the final payment to the executing agency the CPWD will submit the final utilization certificate to the Institute and close the work.

- Item No. 21.4: Regarding the revised cost estimate sanctioned of 300 seater multi-purpose boys hostel has already been communicated to CPWD. Further CPWD assured that the work will be completed in all respect and handed over to the Institute by 30.04.2018 except providing & fixing of VRF/VRV system i.e. air-conditioning work. The tenders of this work have already been received and opened on 02:03.2018 and the work will be awarded to the executing agency by the end of this month. This work will take about two months for its execution and will be completed by 31.05.2018 in all respect. Further, it was also resolved that the pending payments will be released only after the completion of this work as per the earlier decision which has already been conveyed to CPWD.
- Item No. 21.13: Regarding the financial bids opened on 05.03.2018 after evaluation of technical bids. The award of work to the agency for providing equipments for modular kitchen in 600 seater girls hostel at Institute level is in process and the work order will be issued at the earliest with a time limit of 120 days from the date of award. The above said work will be completed by July, 2018.
- Item No. 22.3: Regarding the work of 600 seater girls hostel stands completed and handed over to the Chief Warden (Girls). The approval of revised cost estimate after duly approved from FC/BOG has already been communicated to CPWD. However, final bill of electrical along with final utilization certificate is awaited from CPWD. It was resolved that the CPWD will submit the draft final bill so that the payment may be released accordingly in consonance with the resolution w.r.t. 21.3 taken

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above.

- Item No.22.4: Regarding the approval of revised cost estimate of 300 seater Multi-purpose boys hostel after approval from FC/BOG has already been communicated to CPWD. The work is in progress and will be completed by 30.04.2018 as assured by CPWD and in consonance with the decision taken above w.r.t. item No. 21.4.
- Item No. 22.5: Regarding the approval of revised cost estimate of 3 Storey bearer barrack after approval from FC/BOG has already been communicated to CPWD. The work stands completed and put to use. Final UC received and payment has been made to CPWD.
- Item No. 22.6: Regarding the approval of revised cost estimate for the
 various works of re-carpeting of roads after approval from FC/BOG has
 already been communicated to CPWD. The works stands completed
 and put to use. The final UC received and final payment has been made
 to CPWD.
- Item No. 22.7: Regarding the approval of revised cost estimate for Widening of Institute road after approval from FC/BOG has already been communicated to CPWD. The work stands completed and put to use. The final UC received and final payment has been made to CPWD.
- Item No. 22.8: Regarding the approval of revised cost estimate for the
 provision of two nos. Institute Main Gate after approval from FC/BOG
 has already been communicated to CPWD. The works stands
 completed and put to use. The final UC received and final payment has
 been made to CPWD.
- Item No.22.9: Regarding the approval of revised cost estimate for Replacement of CI/AC water supply lines after approval from FC/BOG has already been communicated to CPWD. The works stands completed and put to use. The final UC received and final payment has been made to CPWD.

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• Item No. 22.10: Regarding the Building & Works committee was apprised regarding the decision of the subsequent FC & BOG meetings: The decision of 35th Finance Committee held on 05.06.2017 vide item No. 35.10 duly approved by BoG in its 42nd meeting held on 27.06.2017 is reproduced below:

"The agenda item was deferred for being taken up in Special Finance Committee meeting scheduled to be held on 14th June, 2017 with the observation that the revised self-explanatory agenda be presented along with a check-list of facilities being provided to Persons with Disabilities (PwD)"

The decision of 36th Finance Committee held on 26.09.2017 vide item No. 35.10 is reproduced below:

"The revised proposal be presented along with check list of facilities being provided to Persons with Disabilities (PwD) in the next meeting of Finance Committee."

In the light of the decision of FC & BOG the building & works committee resolved that the A/A & E/S already conveyed to CPWD for provision of lifts for persons with disabilities (PwD) may be withdrawn and amount of Rs. 43.37 lacs already deposited by the Institute to the CPWD will be received back. The amount of Rs. 43.37 lacs will be deducted from the pending payment of Rs. 300.00 lacs of the CPWD of 600 seater girls hostel. Further, it was also resolved that an amount of Rs. 66,01,286/lacs on account of excess payment for the work of providing and installation of Electrical Sub Station HT/LT distribution in Non-residential area will also be deducted from the pending payment of Rs. 300.00 lacs of the CPWD of 600 seater girls hostel. Further, it was also resolved that the revised proposal be presented along with check list of facilities being provide to Persons with Disabilities (PwD) in the next B&WC.

• Item No. 23.3: Regarding the work of construction of peripheral road along the external boundary wall of the Institute for security and maintenance purpose is to be kept pending for the time being as per the decision of the 23rd Building & Works Committee. The revised cost

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estimate may be put up in the next meeting of B&WC

- Item No. 23.4: Regarding the 35th Finance Committee declined to consider the work of finishing floor with tiles in the common room, dinning hall, warden office and MMCA office in the old boy's hostel No. (1-6) and girl's hostel No.-1 at NIT, Kurukshetra.
- Item No. 23.5: Regarding the Finance Committee approved the work at Sr. No. 2 & 3 in Annexure-3 for a sum of Rs. 2.00 crores out of the total funds allocated. The A/A & E/S of this work mentioned at Sr. No. 3 is in process and will be communicated to CPWD shortly.
- Item No. 23.6: Regarding the 35th Finance Committee declined to consider the work for construction of shed for covering the sports complex stairs at NIT.
- Item No. 23.7: Regarding the Finance Committee under agenda item FC 35 A4 approved the work for supply and installation of "Solarizer" Solar water heating systems' accessories mentioned at Sr. No. 1 in Annexure-3. The work has been completed and put to use. The final inspection of this work has been made by the committee duly constituted by the competent authority of the Institute.
- Item No. 23.8: Regarding the 35th Finance Committee declined to consider the work for the provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the in-side boundary wall towards west.
- Item No. 23.9: Regarding the 35th Finance Committee declined to consider the work for the provision of shed for parking for four wheelers only in the existing parking near NIT Market Complex.
- Item No. 23.10: The Finance Committee decided that the provisions of GFRs 2017 applicable to autonomous bodies may be adopted by the Institute regarding delegation of powers to Director & Chairman, Building & Works Committee for original / minor /repairs works.

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- Item No. 23.11: The Finance Committee approved the work mentioned at Sr. No. 2 & 3 in Annexure-3 for an amount of Rs. 2.00 crores. The work of internal & external finishing i.e. distempering & painting in academic/instructional buildings is completed and final bill along with final Utilization Certificate is awaited from CPWD. The CPWD assured that the final draft bill & utilization certificate will be submitted within a week time and rest of repair/maintenance work in staff quarters and hostel buildings is in process.
- BWC 24.3 To consider and approve the preliminary cost estimate for the provision of additional floor by providing Pre-feb construction with the provision of Air-conditioning, lifts & staircase etc. over the Old MBA/New Workshop Building and renovation of existing workshop building for heavy machinery at NIT, Kurukshetra.

The Building and Works Committee deliberated on the preliminary cost estimate along with Detailed Project Report (DPR) of Rs. 11,82,38,000/- and suggested the following:

- (i) Additional floor with pre-feb technology of Rs. 2,58,69,375/-: In this regard, it was observed that the cost estimate of this work is in order seeing the feasibility as per site conditions.
- (ii) New construction of lift block and stair case of Rs. 1,64,53,320/-: In this regard, it was suggested that the Stair-case area can be excluded from the estimate, as there is already provisions of two stair cases in the existing building. The only provision for the lift block be kept and further goods lifts has been suggested instead of passenger lifts. The saving of the cost (from excluding of the stair-cases) may be utilized for the construction of cooling tower for centralized air-conditioning system.
- (iii) Renovation of existing building i.e. false ceiling etc. of Rs. 2,42,71,755/-: The work of the renovation of the workshop area at ground floor i.e. an approximate 500 sqm. for Rs. 1,22,71,755/- and the renovation of rest of area at ground floor and at first floor about 1500 sqm. for Rs. 1,20,00,000/- are deliberated extensively by the Building & Works Committee and

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decided that the revised cost estimate for the renovation work of an area of 1500 sqm. will be asked from the CPWD as per the requirements in respective labs and the Centre of Excellence iin consolation with the SIEMENS.

(iv) Extra for VRF system. air-conditioner, Access Control, 2 nos. Passengers lifts, UPS, CCTV, Fire fighting, Automatic Fire Alarm System, Automation & Lighting control, Networking, Audio Visual System and D.G. Set including augmentation of Rs. 4,77,95,872/-: The cost of the 2 nos. passenger/goods lifts of Rs. 69,96,000/-, and the balance amount i.e. Rs. 4,07,99,872/-should be utilized for the centralized air-conditioning system instead of VRF system for the nearby three buildings (i.e. existing new workshop building, MBA/MCA and Lecture Hall Complex 12 nos.) and all others items as above.

After due deliberations on the above matter the Building & Works Committee concluded and approved the preliminary cost estimate of Rs. 11,82,38,000/- for the complete project to the final expenditure after reappropriation of items i.e. Centralized Air-conditioning instead of VRF system and construction of separate room for centralized air-conditioning instead of construction of stair-cases and renovation of the existing building as per the SIEMENS requirement. It was resolved that , the CPWD will submit the composite estimate for the above said work after re-appropriation of items. The Chairman Building & Works Committee was authorised to approve the complete estimate.

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BWC 24.4 To consider and approve the preliminary cost estimate for additional floor by providing Pre-feb construction over the existing building of MBA/MCA Department with the provision of lifts and air conditioning etc. at NIT, Kurukshetra

The Building and Works Committee deliberated on the matter regarding the construction of additional floor by providing pre-feb construction or normal construction. The nominee of Board on the Building & Works Committee emphasized that the additional floor may be provided with normal construction instead of pre-feb construction on the existing building to maintain the aesthetic look of the building being Academic Institute. After the meeting Er. A.K. Singhal, Director General (Retired), C.P.W.D visited the site along with Superintending Engineer (Civil), Superintending Engineer (Elect), CPWD, Prof. I/C (Estate & Construction) and other officials. During the site visit it was decided that the additional floor on the existing building of MBA/MCA will be constructed with normal construction at par with first floor instead of pre-feb construction. In this regard, it was also decided that the consent of Er. A.K. Singhal, Director General (Retired), CPWD and Professor I/C (Estate & Construction) will be sent to Superintending Engineer (Civil), CPWD.

In view of the above the Building & Works Committee approved the preliminary cost estimate of Rs. 8,17,80,000/- for the construction of 2nd floor with normal construction over the existing building of MBA/MCA Department with the provision of lifts and centralized air-conditioning etc. at NIT, Kurukshetra. Chairman Building & Works Committee, has authorised to approve the cost estimate after incorporating the suitable modifications by CPWD.

Page 11

Minutes of 24th Building & Works Committee Meeting held on 06-03-2018



BWC 24.5 Any other item

The matter regarding Institute Master Plan was discussed in detail as this work is being pending from the long time and same has to be expedited. The letter written to the Chief Architect, CPWD, Kendriya Sadan, Chandigarh. vide No. 20(142)/PB/KCD/2018/383 dated 23.01.2018 by Executive Engineer (Civil), CPWD, Karnal regarding jurisdiction of Kurukshetra Municipal Counsel, Thanesar vide their letter No. 2941/MCT dated 17.01.2018. The above matter was discussed in the meeting and decided that the prevailing practices should be followed regarding approval of various construction works and Master Plan of the Institute. Further it was also resolved that the work of Institute Master Plan will be completed at the earliest by holding the frequent meetings of the Committee constituted by the competent authority.

The meeting ended with a vote of thanks to the Chair.

Registrar-I/C &Member-Secretary Building & Works Committee, NIT, Kurukshetra

Authenticated.

Director & Chairman, Building & Works Committee NIT, Kurukshetra

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA- 136 119

No. NIT/24th BWC/ 1434

Dated: 26.03.2018

1. Dr. Satish Kumar

Chairman

Director, National Institute of Technology, Kurukshetra

2. Shri A K Singhal,

Member

Director General (Retired), C.P.W.D, Flat No. B-2012, Gaur Green-City Vaibhav Khand, Indirapuram, Distt. Ghaziabad-202020(UP)

3 Prof. D. K. Soni

Member

Dean (Planning & Development) National Institute of Technology, Kurukshetra

4. Er. R K Sao

Member

Superintending Engineer (Electrical), Chandigarh Electrical Central Circle, CPWD, Chandigarh

5. Sh. B.P.Singh

Member

Superintending Engineer, Chandigarh Central Circle CPWD 2nd Floor, Kendriya Sadan Sector-9A, Chandigarh

6. Prof. S.M.Gupta

Special Invitee

Prof. in-charge (Estate & Construction), National Institute of Technology, Kurukshetra

7. Dr. Jayaram Nakka

Special Invitee

Faculty In- charge (Elect. Mtc & Telephone) National Institute of Technology, Kurukshetra

8. Er. S.N. Kaushik,

Special Invitee

Assistant Engineer (Civil)
National Institute of Technology,
Kurukshetra

Subject:

Minutes of the 24th meeting of the Building and Works Committee held on Tuesday 06th March, 2018 at 11.00 A.M in the Board Room of Golden Jubilee Administrative Building of the National Institute of Technology, Kurukshetra.

Sir,

Kindly find enclosed herewith minutes of the 24th meeting of the Building and Works Committee of the Institute held on 06.03.2018 duly authenticated by the Chairman, Building & Works Committee & Director, NIT, Kurukshetra.

It is requested that comments, if any, on the above referred minutes may kindly be sent to the under signed within 10 days. If no comments are received within this period, it would be presumed that you agree with the minutes as recorded, and action will be initiated to implement the same.

Encl. as above

(Surinder Deswal)
Registrar In-charge &
Member-Secretary
Building & Works Committee,
NIT, Kurukshetra

Endst No. NIT/24th BWC/

Dated:

.03.2018

Copy of the minutes of 24th meeting of the Building & Works Committee held on 06.03.2018 is being sent for information and record please.

To

Director (NITs),
 Deptt. of Higher Education,
 M.H.R.D., Shastri Bhawan,
 New Delhi-110001

Member

_Sd-

(Surinder Deswal)
Registrar In-charge &
Member-Secretary
Building & Works Committee,
NIT, Kurukshetra

DY NO: 440-Dt. 06-04-2018



भारत सरकार GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT

Speed Post

कार्यालय अधीक्षण अभियंता चण्डीगढ केन्द्रीय परिमंडल केन्द्रीय लोक निर्माण विभाग, केन्द्रीय सदन, सैक्टर 9-ए, चण्डीगढ - 160009



Office of the Superintending Engineer Chandigarh Central Circle, Central Public Works Department, Kendriya Sadan, Sector 9A, Candigarh Phone No.: 0172-2743923 seccc_cpwd2002@yahoo.co.in

संख्याः चकेपरि / 23(NDRI) / 2017-18 / 6 🔊 9

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दिनांक 27/3/18

Registrar-I/C & Member-Secretary
Building & Works Committee,
NIT, Kurukshetra.

विषय:

Minutes of the 24th meeting of Building & Works Committee, NIT, Kurukshetra held on 06th March, 2018.

Sir,

Kindly refer to the Minutes of meeting of BWC dated 06th March,2018. In the Item No. BWC 24.4 a line may be inserted in between "instead of pre-feb construction". The SE(C), CPWD informed that vertical expansion is not possible in absence of scrutiny of complete structural analysis/data/design/drawings and in view stringent codal provision BIS 13920 (2016) and 1893 (2016). The other contents of the Minutes of meeting have been gone through and stands vetted.

भववीय गुनु, १८ अधीक्षण अभियन्ता चण्डीगढ केन्द्रीय परिमण्डल, के लो नि वि, चण्डीगढ।

प्रतिलिपि:-

कार्यपालक अभियन्ता, करनाल केन्द्रीय मण्डल, के लो नि वि, एन.डी.आर.आई. करनाल।

अधीक्षण अभियन्ता

15/4/18

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Item No. 25.2 To report the action taken on the minutes of the 24th meeting of the Building & Works Committee held on 06.03.2018

The action taken on the minutes of the 24th meeting of the Building & Works Committee held on 06.03.2018 is as under:

Item No.	Subject	Decision taken	Action taken
24.1	To confirm the minutes of 24 th meeting of Building & Works Committee held on 06.03.2018	The minutes of the 24 th meeting of Building & Works Committee held on 06.03.2018 circulated amongst the members vide letter No. NIT/24 th BWC/1434 dated 26.03.2018 were confirmed.	No further action is required
24.2	To report the action taken on the minutes of the 24 th meeting of the Building & Works Committee held on 6.3.2018	The B&WC noted the action taken on minutes of the 23 rd meeting of the Building & Works Committee held on 03.06.2017. The following points were discussed on the action taken report: Item No.19.2 (16.4): Regarding the work of providing & installation of electrical Sub-Station HT/LT distribution in Nonresidential area, which is under arbitration, the	The work of providing & installation of electrical Sub-Station HT/LT distribution in Non-residential area has been completed. The final expenditure & final
		Executive Engineer (Elect.), CPWD assured that the decision of arbitrator will be communicated to the Institute as and when the case is decided along with final expenditure & final Utilization Certificate. Further, the Executive Engineer (Elect.) apprised that: - the work of Installation of HT/LT Sub-Station including feeder pillar in residential area is	Utilization Certificate has been received and the work has been capitalized. The work of Installation of HT/LT Sub-Station including feeder pillar in residential area is almost

- almost complete;
- the work could not be commissioned due to shortcomings left by previous executive agency of the CPWD; and
- the balance work has been allotted to another agency by CPWD for its execution vide letter No. 54(12)KCED/2018/352 dated 21.02.2018 and will be completed by 20th April, 2018.
- Item No.19.2 (16.11): The work of replacement of existing electrical wiring in instructional buildings is completed by CPWD. The defects/shortcomings pointed out bν the inspection committee have already been communicated to CPWD rectification. The for CPWD officers apprised that the pending payment for the above said works is not being made by the Institute due to which they are not able to make the payment to the executing agency. Regarding this, it was also resolved that CPWD will submit the draft

complete & put to use. However, the work is commissioned in manual mode and installation of the metering software is pending being the case is under arbitration.

The compliance regarding the defect / shortcomings already communicated by the Institute has been compliance by CPWD. The work completed and put to use. However, the old/ new inventory/fixtures Administrative of old Block. has not been received from CPWD so CPWD may submit far. the above documents at the earliest alongwith final utilization certificate so that the balance payment may be released.

final bill to the Institute within a week, so that the payment may be released accordingly to CPWD. After making the final payment to the executing agency the CPWD will submit the final utilization certificate to the Institute and close the work.

• Item No.19.10: Regarding the item relates to the work of providing audio visual system in the Board Room of Golden Jubilee Administrative Building including Jubilee Hall & Senate Hall. The work in the Board Room has been completed and the preparation of tendering of of Jubilee balance work hall & Senate Hall is in process.

The Executive (Civil) and **CPWD** (Elect.) were communicated by Prof. I/C (E&C) to submit the cost estimate for Civil. Electrical & audio system works in the Jubilee Hall, Senate Hall and covering of Open Air Theatre at NIT, Kurukshetra vide letterNo.CC/3527/816/626 5 dated 31.12.2018 and NO.CC/3527/17/132 dated 7.1.2019.

The CPWD submitted the preliminary estimates for -

i) Renovation of Jubilee Hall & senate hall (Civil works) vide letterNo.CCC/23(35 15)W-III/2018-19/391 dated 20.2.2019 and No.

- 20(NIT)PS/KCD.201 8/532 dated 18.2.19.
- ii) Renovation of
 Jubilee Hall &
 senate hall
 (Electrical/audio
 system works) vide
 letter No.
 20(38)/KCED/2019/1
 01 dated 17.1.2019.

A separate agenda item is placed in this meeting vide Item No. 25.12 after clubbing Civil Works for renovation of Jubilee Hall and senate hall.

• Item No. 20.5: Regarding the work of Installation of STP is completed and put use. However. the compliance of defects/ shortcomings already conveyed to CPWD will be made shortly. Further, it resolved that the CPWD will submit the draft final bill of STP within a week, so that the payment may be released and the work may be closed after receipt of final utilization certificate from CPWD.

The A/A E/S of the work of STP for an amount of Rs. 318.08 lacs was conveyed to CPWD. The work of installation of STP is completed and capitalized for an amount of Rs. 167.40 lacs + 26.70 for maintenance purpose for next five years as per agreement after completion of one year defect liability period.

A separate agenda item is placed in this meeting vide Item No. 25.6 regarding the work of water distribution network

Regarding the work of water distribution network for re-use of treated water for Horticulture and flushing in 600 seater Girls Hostel and 300 seater Multi Purpose Boys Hostel, it was also resolved that the CPWD submit will the cost estimate of the work on the basis of approved design. Accordingly, separate A/A & E/S for this work will be conveyed to CPWD after approval of the competent authority and the funds for this work will be utilized from the saving of the STP work

for re-use of treated water Horticulture for and flushing in 600 seater Girls Hostel and 300 seater Multi Purpose Boys Hostel. The balance amount of Rs. 123.98 lacs (318.08 -167.40 + 26.70 towards maintenance of STP) is sufficient for the above said work.

Item No. 21.3: Regarding the work of 600 seater Girls Hostels stands completed and has been handed over and put to use. The work of Fire Fighting has also been completed. The compliance of defects/ shortcomings of Civil Electrical and installations have also been made by CPWD. Whereas, the missing items recorded jointly are to be provided by CPWD to the Institute. It was The inventory of fire-fighting system received and recovery regarding missing items has also been made. Thereafter, the final utilization certificate received from CPWD and the work has been capitalized.

also resolved that the CPWD will submit the draft final bill along with the inventory of fire-fighting system, so that the payment may released accordingly to CPWD. After making the final payment to the executing **CPWD** will agency the submit the final utilization certificate to the Institute and close the work.

• Item No. 21.4: Regarding the revised cost estimate sanctioned of 300 seater multi-purpose boys hostel already been has communicated to CPWD. Further CPWD assured that the work will be completed in all respect and handed over to the Institute by 30.04.2018 except providing & fixing of VRF/VRV system i.e. airconditioning work. tenders of this work have already been received and opened 02.03.2018 on and the work will be awarded to the executing agency by the end of this month. This work will take about two months for its execution will and be

The work completed and the defects pointed out by the inspection committee communicated to CPWD. The compliance regarding rectification of defects has been made by CPWD. However, final utilization certificate along with a copy of final bill is awaited from CPWD.

completed by 31.05.2018 in all respect. Further, it was also resolved that the pending payments will be released only after the completion of this work as per the earlier decision which has already been conveyed to CPWD.

Item No. 21.13: Regarding the financial bids opened 05.03.2018 after on evaluation of technical bids. The award of work to the agency for providing equipments for modular kitchen in 600 seater girls hostel at Institute level is in process and the work order will be issued at the earliest with a time limit of 120 days from the date of award. The above said work will be completed by July, 2018.

Item No. 22.10: The Building & Works committee was apprised regarding the decision of the subsequent FC & BOG meetings: The decision of 35th Finance Committee held on 05.06.2017 vide

The Work completed and put to use.

In the light of the decision of the B&WC subsequently FC and BOG the work has been withdrawn from CPWD. The payment of RS. 43.37 lacs already transferred to CPWD has been adjusted

item No. 35.10 duly approved by BoG in its 42nd meeting held on 27.06.2017 is reproduced below:

"The agenda item was deferred for being taken up in Special Finance Committee meeting scheduled to be held on 14th June. 2017 with the observation that the revised self-explanatory agenda be presented along with a check-list of facilities being provided Persons to with Disabilities (PwD)"

The decision of 36th Finance Committee held on 26.09.2017 vide item No. 35.10 is reproduced below:

"The revised proposal be presented along with check list of facilities being provided to Persons with Disabilities (PwD) in the next meeting of Finance Committee."

In the light of the decision of FC & BOG the building & works committee resolved that the A/A & E/S already conveyed to CPWD for provision of lifts

against the balance payment of 600 seater girls hostel as per the decision of the 24th B&WC meeting held on 06.03.2018.

Further the revised proposal alongwith check list of facilities is in process. Regarding the check list with the provision of various other necessary facilities to the persons with the disabilities (PwD) was communicated to Dean (SW) vide letter No. CC/3508/591 dated 8.9.17 from Dean (Estate).

Further, CPWD may be requested to submit the cost estimated regarding check list for the persons with the disabilities (PwD) as per Government of India norms. so that the work of provision of lifts for the persons with the disabilities (PwD) may be initiated.

for persons with disabilities (PwD) may be withdrawn and amount of Rs. 43.37 lacs already deposited by the Institute to the CPWD will be received back. The amount of Rs. 43.37 lacs will be deducted from the pending payment of Rs. 300.00 lacs of the CPWD of 600 seater girls hostel. Further. it was resolved that an amount of Rs. 66.01.286/- lacs on account of excess payment for the work of providing and installation of Electrical Sub Station HT/LT distribution in Nonresidential area will also be deducted from the pending payment of Rs. 300.00 lacs of the CPWD of 600 seater girls hostel. Further. it was also resolved that the revised proposal be presented along with check list of facilities being provide to Persons with Disabilities (PwD) in the next B&WC.

• Item No. 23.5: Regarding these items the Finance Committee approved the

The action taken regarding item No. 2 & 3 may be read under the action

work at Sr. No. 2 & 3 in Annexure-3 for a sum of Rs. 2.00 crores out of the total funds allocated. The A/A & E/S of this work mentioned at Sr. No. 3 is in process and will be communicated to CPWD shortly.

• Item No. 23.6: Regarding the 35th Finance Committee declined to consider the work for construction of shed for covering the sports complex stairs at NIT.

taken of item No. 23.11. The A/A & E/S of the work mentioned at Sr. No. 3 has been conveyed to CPWD vide letter No. CC/3492/2972336 dated 9.5.2018 for execution. The work is in progress.

In the light of the decision of Finance Committee. The regarding matter construction of shed of covering the Sports Complex Stairs was discussed in the EAC in meeting held 29.01.2019 & 07.02.2019. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 99,98,900/-. This item was deferred by FC in its meeting held 03.06.2017 and the same was approved by the BoG in its 42nd meeting held on 27.06.2017.

 Item No. 23.7: Regarding the Finance Committee under agenda item FC 35
 A4 approved the work for The Work completed, put to use and capitalized.

supply and installation of "Solarizer" Solar water systems' heating accessories mentioned at Sr. No. 1 in Annexure-3. has work completed and put to use. The final inspection of this work has been made by committee the duly constituted by the competent authority of the Institute.

• Item No. 23.8: Regarding 35th Finance the Committee declined to consider the work for the provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the in-side boundary wall towards west.

In the light of the decision of Finance Committee. The matter regarding provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall towards west was discussed in the EAC in held meeting its 29.01.2019 & 07.02.2019. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 27,60,400/-. This item was deferred by FC in its 35th meeting held on 03.06.2017 and the same

• Item No. 23.9: Regarding the 35th Finance Committee declined to consider the work for the provision of shed for parking for four wheelers only in the existing parking near NIT Market Complex.

was approved by the BoG in its 42nd meeting held on 27.06.2017.

In the light of the decision of Finance Committee. matter regarding The provision of shed for parking for four wheelers existing only in the parking near NIT Market Complex was discussed in the EAC in its meeting held on 29.01.2019 & 07.02.2019. The FAC resolved and recommended that the above said work already stands approved B&WC for an amount of Rs. 44,69,700/-. This item was deferred by FC in its 35th meeting held on 03.06.2017 and the same was approved by the BoG in its 42nd meeting held on 27.06.2017.

23.10: The Item No. Committee Finance decided that the provisions of GFRs 2017 applicable autonomous bodies may be adopted by the Institute regarding delegation of powers to Director & Chairman,

letter vide No. EO/811/6232 dated 26/28.12.2018 sent Director General NITs. Govt. of India, MHRD for regarding proposal delegation of powers to executing additions/ alterations/modifications etc. of Civil or Electrical Building & Works

Committee for original /
minor /repairs works.

works in the existing buildings and execution of original and minor works as per the provisions of GFRs 2017. The reply in this regard is awaited from MHRD

Item No. 23.11: The Finance Committee approved the work mentioned at Sr. No. 2 & 3 in Annexure-3 for an amount of Rs. 2.00 crores. The work of internal & external finishing i.e. distempering & painting in academic/instructional buildings is completed and final bill along with final Utilization Certificate is awaited from CPWD. The CPWD assured that the final draft bill & utilization certificate will be submitted within a week time and rest of repair/maintenance work in staff quarters and hostel buildings is in process.

The work of internal & external finishing i.e. distempering & painting in academic/instructional buildings is completed. Final UC alongwith copy of final bill has been received and rest of the repair and maintenance work of staff quarters and hostel buildings is also completed.

A Separate Agenda item is placed in this meeting vide Item No. 25.4 for the provision of finishing Internal & External work i.e. distempering & painting in boys hostels 1-10, Girls Hostels 1-4 and staff quarters including BT & CT.

Tο consider and approve the preliminary cost for estimate the provision of additional floor by Pre-feb providing construction with the provision of Airconditioning, lifts & staircase etc. over the Old MBA/New Workshop Building and renovation of existing workshop building for heavy machinery at NIT, Kurukshetra.

24.3

The Building and Works
Committee deliberated on the
preliminary cost estimate
along with Detailed Project
Report (DPR) of Rs.
11,82,38,000/- and suggested
the following:

Additional floor with prefeb technology of Rs. 2,58,69,375/-: In this regard, it was observed that the cost estimate of this work is in order seeing the feasibility as per site conditions.

(ii) New construction of lift block and stair case of Rs. 1,64,53,320/-: In it this regard, was that the suggested Stair-case area can be excluded the from estimate, as there is already provisions two stair cases in the existing building. The only provision for the lift be kept block and further goods lifts has been suggested instead of passenger lifts. The saving of the cost (from excluding of the staircases) may be utilized for the construction of

No. Α letter vide CC/3550/114/1302 dated 11.2.2019 conveyed to Executive Engineer Civil Electrical, **CPWD** regarding to submit the estimate cost for renovation of existing floor (ground floor and first floor) for setting up the labs for (CoE). The CPWD will submit the revised cost estimate after incorporating all the requirements of CoE as per drawings already submitted CPWD. to Accordingly, the process for A/A & E/S of this work will be initiated to allot this to **CPWD** for work execution.

cooling tower for centralized air-conditioning system.

(iii) Renovation of existing building i.e. false ceiling etc. of Rs. 2,42,71,755/- : The work of the renovation of the workshop area at ground floor i.e. approximate 500 sqm. for Rs.1,22,71,755/- and the renovation of rest of area at ground floor and at first floor about 1500 sqm. for Rs. 1,20,00,000/are deliberated extensively by the Building & Works Committee and decided that the revised cost for estimate the renovation work of an area of 1500 sqm. will be asked from the CPWD as per the requirements in respective labs and the Centre of Excellence in consolation with the SIEMENS.

(iv) Extra for VRF system. air-conditioner, Access Control, 2 nos.

Passengers lifts, UPS, fighting, CCTV. Fire Automatic Fire **Alarm** System, Automation & Lighting control. Networking, Audio Visual System and D.G. Set including augmentation of Rs. 4,77,95,872/-: The cost of the 2 nos. passenger/goods lifts of Rs. 69,96,000/- and the balance amount i.e. Rs. 4.07.99.872/should be utilized for the centralized air-conditioning system instead of VRF system for the nearby three buildings (i.e. existing new workshop building, MBA/MCA and Lecture Hall Complex 12 nos.) and all others items as above.

After due deliberations on the above matter the & Works Building Committee concluded and approved the preliminary estimate of Rs. cost 11,82,38,000/for the complete project to the final expenditure after reappropriation of items i.e. Centralized Airconditioning instead of VRF system and construction of separate room centralized air-conditioning instead of construction of

stair-cases and renovation of the existing building as per the SIEMENS requirement. lt was resolved that , the CPWD will submit the composite estimate for the above said work after re-appropriation of items. The Chairman & Works Building Committee was authorized to approve the complete estimate.

24.4

To consider and approve the preliminary cost estimate for additional floor by providing Prefeb construction over the existing building of MBA/MCA

Department with the provision of lifts and air conditioning etc. at NIT. Kurukshetra

The Building and Works Committee deliberated on the matter regarding the construction of additional floor providina pre-feb construction normal construction. The nominee of Board on the Building & Works Committee emphasized that the additional floor may be provided with normal construction instead of pre-feb construction on the existing maintain the buildina to aesthetic look of the building Academic Institute. being After the meeting Er. A.K. Singhal, Director General (Retired), C.P.W.D visited the site along with Superintending Engineer (Civil), Superintending Engineer

The minutes of the Works Building & Committee were circulated amongst the members NIT/24th vide No. BWC/1434 dated The 26.03.2018. comments received from Superintending Engineer (Civil), CPWD that "vertical expansion is not possible in absence of scrutiny of complete structural analysis/data/design/drawi ngs and in view stringent codal provision BIS 13920 (2016) and 1893 (2016)". The other contents of the Minutes of meeting have been gone through and stands vetted. Further, a meeting was

Prof. (Elect). CPWD. I/C (Estate & Construction) and other officials. During the site visit it was decided that the additional floor on the existing building of MBA/MCA will be constructed with normal construction at par with first floor instead of pre-feb construction. In this regard, it was also decided that the consent of Er. A.K. Singhal. Director General (Retired), CPWD and Professor I/C (Estate & Construction) will be sent to Superintending Engineer (Civil), CPWD.

In view of the above the Building & Works Committee approved the preliminary cost estimate of Rs. 8,17,80,000/for the construction of 2nd floor with normal construction over the existing building MBA/MCA Department with the provision of lifts and centralized air-conditioning at NIT. Kurukshetra. etc. Chairman Building & Works Committee, has authorised to approve the cost estimate after incorporating the suitable modifications by CPWD.

held under the chairmanship of Chief Engineer (NZ-I), CPWD, Chandigarh on 18.04.2018. Ιt was decided in the meeting that in case NIT authorities desired for the construction with conventional RCC framed structures, then the NIT, Authorities may provide Architectural and Structural drawings for the **RCC** conventional construction to be followed by CPWD. Accordingly, a Committee constituted to check the feasibility for construction of additional floor with construction permanent over the existing building of MBA/MCA block and also suggested to hire the previous architect towards rendering the consultancy for providing services design/drawings and architectural drawings. The Architect provided the Structural Design, Drawings and Architectural Drawings. The vetting for the same is in process. After vetting the same will be sent to

			CPWD alongwith A/A & E/S of this work for further execution as per conventional construction. It is important to note that the work will be completed within the preliminary cost estimate of Rs. 8,17,80,000/- including provision of Furniture and Air Conditioning etc.
24.5	Any other item	The matter regarding Institute Master Plan was discussed in detail as this work is being pending from the long time and same has to be expedited. The letter written to the Chief Architect, CPWD, Kendriya Sadan, Chandigarh. vide No. 20(142)/PB/KCD/2018/383 dated 23.01.2018 by Executive Engineer (Civil), CPWD, Karnal regarding jurisdiction of Kurukshetra Municipal Counsel, Thanesar vide their letter No. 2941/MCT dated 17.01.2018. The above matter was discussed in the meeting and decided that the prevailing practices should be followed regarding approval of various construction works and Master Plan of the Institute. Further it was also resolved that the work of Institute Master Plan will be completed at the earliest by holding the frequent meetings of the Committee constituted by the competent authority.	B&WC subsequently FC & BOG. A Committee was constituted by the competent authority of the Institute regarding finalization of Institute Master Plan and all the members were informed vide letter No. EO/734/5911 dated 21/22.11.2017. The recommendations of the committee are still awaited.

Item No. 25.3 To consider and approve the cost estimates for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade etc. in the various departments.

The Hon'ble Director visited the various departments on 21.12.2017 alongwith Prof. I/C (Estate & Construction) and other officers of the Estate Section. During the visit it was observed that the condition of existing flooring is deteriorated in the left out portion of corridors, labs, class rooms, offices etc. and are in bad condition. So, it was decided that the same needs to be replaced/repaired with suitable material. Accordingly, a letter was sent to all HOD's vide No. CC/832 dated 28.12.2017 to send their requirements providing vitrified floor tiles in labs, class rooms & offices etc. False ceiling in the labs & faculty offices and Aluminium partitioning in labs.

Accordingly the requests received from the HOD's of various departments for the above said works and the same were put up before the EAC meeting held on 06.09.2018. The EAC resolved & recommended that the Estate Section may prepare the department wise estimate and the same be put up before EAC in its next meeting so that priority of the works may be decided accordingly.

In the light of the above recommendations of EAC the Estate Section prepared department wise cost estimate for an amount of Rs. 1,42,15,862/- and the same was put up before the EAC in its meeting held on 29.01.2019 & 07.02.2019. Further, the EAC discussed the cost estimate and recommended that the same be put up before Building &Works Committee in its ensuing meeting for further approval in the matter.

The details of above said Estimate is as under in tabular form:

Sr.	Name of Department	Estimated Cost
No.		(Amount in Rs.)
1	Electronics & Communication Engineering	27,86,071.00
2	School of Material Science & Technology	5,02,694.00
3	Mechanical Engineering Department	19,17,815.00
4	Physical Education & Sports Section	4,92,429.00
5	Computer Application Department	5,76,865.00
6	Physics Department	24,58,864.00
7	School of VLSI Design & Embedded System	2,86,504.00
8	Central Workshop	25,01,907.00
9	Civil Engineering Department	6,78,569.00
10	Chemistry Department	7,64,814.00
11	Repair of Sports Complex	12,49,330.00
	Total	1,42,15,862.00

The Building & Works Committee may consider and approve the cost estimate for an amount of Rs. 1,42,15,862/- for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone, chemical/acid resistance tiles in the left out portion of corridors, labs, class rooms, offices etc. of various departments including G.I. Sheet shade in the concrete lab of central workshop and renovation/repair work in Sports Section at NIT, Kurukshetra.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./CC/839

Dated: 28.12.2017

This is in reference to the visit of various departments by the Hon'ble Director on 21.12.2017. During the visit it was decided that the condition of existing flooring is deteriorated in the left out portion of corridors, labs, class rooms, offices etc. The same be replaced with suitable material. So all the HoD's of the departments are requested to send their requirements for the following:

- 1. Vitrified floor tiles in labs, class rooms & offices etc.
- 2. False ceiling in the labs & faculty offices, if required
- . 3. Aluminium partitioning in labs, if required

It is therefore, requested to send the requirement for the above said works within a week in the office of undersigned, so that further course of action may be initiated in this regard.

Prof. I/C (Estate & Construction

All HoD's

Copy to:

- 1. Dean (P&D) for information please.
- 2. A.E. (Civil), NITK
- 3. SS to Registrar for kind information of the Registrar
- 4. SS to Director for kind information of the Hon'ble Director, NITK

Subject: Movilles of the meeting of Estate Attury Committee List on 00,09,2010 in the office of Read (PSO) & Otherwise (EAC) ... NO, Aurokahetta

A reservoir of Estate All and Calminutes was held on 16 to 1018 and 50 all and one word on the proper of Denier (PNE) to project, the promote is also reservoir to Hugon Species.

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The requests incorrect your die verbus Deputtments shought offeethe arters egalitate play only 5 family or a tribed finant bies. It is tought our there with this state again, thought 5 to the century or unforce, per noming or the shops a country of acression \$100 for the notion than departments in the notion was state send in the 100 for each man if was send and 6 to be underlying the 10 perfect arter estates be proported and the country of the putter part of each man in the country of the perfect of the perfect only the perfect of the perfect of the perfect only the perfect of the perfect of the perfect only the perfect of the perfect of the perfect only the perfect of the perfect of the perfect only the perfect of the perfect of

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3 15 thanks the respect received from the SAS Officer side letter. No SIR 18796 duized 31 27.2016 inagerding water processing treatment of changing receives Seminary Soci.

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Subject

Cost Estimate for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone, chemical/acid resistant tiles and G.I. Sheet shade in the various departments.

It is pertinent to mention here that the requests received from various departments through different letters regarding providing & fixing of vitrified floor tiles, chemical resistance tiles, wall tiles, kota stone flooring & false ceiling, aluminum partitioning in the shops & corridor of workshop & labs etc.

Accordingly, the same were discussed in the EAC meeting held on 06.09.2018 and it was resolved and recommended that the department wise estimate be prepared and the same be put up before EAC in its next meeting and was conveyed to A.E. (Civil), J.E. (Civil)-I & J.E. (Civil)-II vide letter No. CC/3506/666 dated 18.10.2018. So that priority of the works may be decided.

In the light of above decision the detailed cost estimate (department wise) has been prepared by the Estate Section for the above said work as per detail given below:

Sr. No.	Name of Department	Estimated Cost
		(Amount in Rs.)
1.	Electronics & Communication Engineering	27,86,071.00
2.	School of Material Science & Technology	5,02,694.00
3.	Mechanical Engineering Department	19.19.810.00
4.	Physical Education & Sports Section	4,92,429.00
5.	Computer Application Department	5,76,865.00
6.	Physics Department	24,58,864.00
7.	School of VLSI Design & Embedded System	2,86,504.00
8.	Central Workshop	25,01,907.00
9.	Civil Engineering Department	6,78,569.00
10.	Chemistry Department	7,64,814.00
	Total	1,29,66,532.00

In view of the above, the detailed cost estimate amounting to Rs. 1,29,56,53½- prepared for the above said work is placed in the file. The same be discussed in EAC for further kind perusal please.

Assistant Engineer (Civil)

J.E. (Civity 2 Johns

JE (Civil)-II

Prof. I/C (Estate & Construction)

Putin EAC.

5A, 25/01/19

Name of Department : Electronics & Communication Engineering

Mame of Work

: Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra

Specifications

2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.2 2.1.1.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-ch	tem No.	Code	Description	Qty.	Unit	Rate	Amount
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(minimum) sheet, 1200 mm long spaced between main TT at 600 mm center to center to form a grid of 1200x800 mm and secondary cross TT of length 600 mm and size 24x29 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 120x800 mm and to form grids of 60x800 mm and wall angle of size 24x240.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/missing, opening for serviges like diffusers, grills, lightly fittings, fixtures, smoke detectors etc. Main TT ginners to be suspended from ceiling using GI slotted cleats of size 27 x3 7x 25 x16 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 25 x3 0x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12 12.52.C Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 1024.7 Sqm 1183.90 1192671.6 Sys595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sam (bits ides inclusive) and 20% perforation areas with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyseter provider coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acquisted fleese. 2 211 Providing and fibring aluminimum work for doors, windows, ventilators and partitions win extruded but up standard tubular sections? appropriate 2 sections and other sections of approved make conforming to 18.73 and 18.1285, flams, with dash fasteners of required discounting and size with required EPM rubbor reportere gasket etc. Aluminium sections shall be smooth, rust free, straight, mitted and joined mechanically wherever required including global angle, aluminium works of powder coating 50 micron) 21 21			of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm				
center to form a grid of 1200x000 mm and secondary cross "To flength 600 mm and size 24x25 mm made of 0.30 mm thick (minimum), sheet to be interlocked at middle of the 1200x000 mm panel to form grids of 600x000 mm and wall angle of size 22x42x40.3 mm and laying false ceiling lise of approved texture in the grid including, required cutting/making, opening for servides like diffusers, grills, light fittings, flutures, smoke detectors etc. Main "Trighners to be suspended from ceiling using Gll slotted cleats of size 27 x 37 x 25 x 16 mm fixed to cailing with 12.5 mm da and 55 mm long dash fasteners. 4 mm Gl adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along man T. hottom exposed width of 24 mm Gl all Tisachions shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineeri-in-charge. 12 12 25.22 Gll Metal Ceiling Lay in perforated Tegular edge global whate color titles of size 1024.7 Sqm 1163.90 1192671.6 Sqm shamped and 5. mm tinks with 8 mm drop, made of Gl sheet having galvanzizing of 100 gms/sam (both sides inclusive) and 20% perforation area with 1.8 mm drop and barbor bed for sides inclusive) and 20% perforation area with 1.8 mm drop and barbor bed for sides inclusive) and 20% perforation area with 1.8 mm drop and barbor bed for sides inclusive) and 20% perforation area with 1.8 mm drop and barbor bed for sides inclusive in the sides inclusive in the sides inclusive in the sides of the sides in the sides in the sides in the sides in the sides of the sides in the sides in the sides of the sides of the sides of appropriate 2 sections and other sections of approved make conforming to 18: 733 and 18: 1285, fixing with dash fasteners of required dia and size including level and sides			center to center and cross "T" of size 24x25 mm made of 0.30 mm thick				
center to form a grid of 1200x800 mm and secondary cross T* of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum), sheet to be interlocked at middle of the 1200x800 mm panel to form grids of 600x800 mm and wall angle of size 24x24x00 mm and laying false celling tiles of approved texture in the grid including, required cutting/making, opening for servidas like diffusers, grills, light fittings, flutures, smoke detectors etc. Man T** prinners to be suspended from ceiling using GII slotted cleats of size 27 x 37 x 25 x 16 mm fixed to cailing with 12.5 mm dia and 50 mm long dana flasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed with for 24 mm GI all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as of recent by Engineer-in-charge galvanizing of 100 gms/sym (both sides inclusive) and 20% perforation area with 1.8 mm dray of the sides inclusive) and 20% perforation area with 1.8 mm dray of the sides inclusive) and 20% perforation area with 1.8 mm dray belax and having NRC (Nilse Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including facciory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. **Luminum Partitioning** 2 2.1.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extrude built up standard tubular sections? appropriate Z sections and other sections of approved make conforming to 18: 733 and 18: 1285, fixing with dash fasteners of required dist and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber neoprene gasket etc. Aluminium sections shall be smooth; rust free, strayfix, mitted and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazina fasteners to be paid for							
and size 24425 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x00 mm and taying false ceiling tiles of approved texture in the grid including, required cuttingmaking, opening for services, griffs, light filtings, flutures, smoke detectors etc. Main "T" prinners to be suspended from ceiling using G1 slotted cleats of size 22 x 3 x 2 x 2 x 16 mm feet of ceiling using G1 slotted cleats of size 22 x 3 x 2 x 2 x 16 mm feet of ceiling with 12.5 mm dia and 50 mm long dash fasteriers, 4 mm G1 adjustable rods with galvanised butterfly level clips of size 25 x 30 x 0.8 mm spaced at 120 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications. 12 12.22 G1 Metal Ceiling Lsy in perforated Tegura edge global white color tiles of size 10247. Sqm 1163.90 1192671.6 sp35x555 mm and 0.5 mm thick with 6 mm drop, made of G1 sheet having galvanizing of 100 grassism (both sides inclusive) and 20% perforation area with 1.8 mm da holes and having NRC (Nose Reduction Certificer) 10 -G, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. 2 2 11. Providing and Sare the bending and perforation, and backed with a black Glass fiber acoustical fleece. 2 2 11. Providing and Sare acoustical fleece and the sections of approach and acondoming to 15 x 33 and 15; 125, filling with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, is at 100, bottom and sides with required EPDM tubber response gasket to. Aluminum Partitioning and sides with required EPDM tubber response gasket to. Aluminum scription faster sight between the paid of providing and floring providing and fishing highest provides and partitions in the paid of the partition of Engineerin-charge. 2 2 11.1.1.2 Provider coated aluminium (minimum bickness of p			[· · · · · · · · · · · · · · · · · · ·				
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size 24x2x0,3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" prinners to be suspended from ceiling using G1 stotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G1 adjustable rods with galavanised butterfly level clips of size 95 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heliphts as per specifications, drawings and as directed by Engineer-in-charge. 1.2 12;52.2 GI Metal Ceiling Lay in perforation and explaints of the properties of							
including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "Tryfinners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 28 x 16 mm fixed to calling with 12.5 mm dia and 50 mm long dash fasterers, 4 mm GI adjustable rods with galvanised butterfily level clips of size 53 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 1.2 12.52 GI Metal Ceiling Ley in perforated Tegular edge global white color titles of size 95 x95 mm and 0.5 mm thick with 8 mm drop, made of GI sheet having galvanizing of 100 gms/shqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5 electro statically polyester power created of hischess 60 microns (minimum), including factory painted after bending and perforation, and sacked with a black Glass Floer acoustical Receo. 2 211 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections? 3 and IS 1285, fixing with dash fasterners of required dia and size, including necessary filting up the gaps at junctions, i.e. at top, bottom and sides with required EPDM ruther neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitted and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.11 For fixed portion. 2.2 21.11.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.1 21.2.2 Prowding an	I						
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ceiling using GI stotted cleats of size 27 x 37 x 25 x 16 mm fixed to cailing with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed within C2 mm of all T-sections shall be price-pointed with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 1.2 12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color titles of size 955x95 mm and 0.5 mm thick with 6 mm drop, made of GI sheet having galvanizing of 100 grisshgm (both sides inclusive) and 20% perforation area with 1.6 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5; electro statically polyester prowder coefficient of thickness 50 microns (minimum), including factory painted after bending and perforation, and eacked with a plack Glass fiber acoustical fleece. 2 2 11.1 [Providing and fixer partitioning of 10.5 mm of 10	1						
12.5 mm dia and 50 mm long dash fasteners, 4 mm Gl adjustable rods with galvanised butterfly level clips of size 55 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polystert paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 1.2 12.52.2 Gf Metal Ceiling Lay in perforated Teguar edge global white color tiles of size 595x95 mm and 0.5 mm thick with 8 mm drop, made of Cl sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.6 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polysester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Class fiber acoustical fleece. Aluminum Partitioning 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections's appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminum with standard providing necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminum with standard providing and fixing up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Standard standard standard standard standard standards st	-						
galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyseter paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 1.2 12.52.2 GI Metal Ceiling Lay in perforated Teguiar edge global white color tiles of size 958x595 mm and 0.5 mm thick with 8 mm drop, made of GI sheet having galvanizing of 100 gm/s/sm (both sides inclusively and 20% perforation area with 1.6 mm dia holes and having NTC (Noise Reduction Coefficient) of 0.5, electro statically polysets prowder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections? appropriate Z sections and other sections of approved make conforming to 15. 733 and 15. 1255, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including lotat angle, Aluminium snap beading for glazing / paneling, and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.2 Prowder coated aluminium (minimum thickness of powder coating 50 micron) 3 21.2 Providing and fixing 12 mm thick prefaminated particle board flat pressed three layer or graded wood particle board conforming to 15. 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative la	1						
to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyster paint, all complete for all heights as per specifications. drawings and as directed by Engineer-in-charge. 1.2 12.52.2 GI Metal Celling Lay in perforated Teguar edge global white color tiles of size 555:595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/am (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber accustical fleece. **Aluminum Partitioning** 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections' appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, milred and jointed mechanically wherever required including cleat angie, Aluminium snap beading for glazing / paneling. C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 1 21.11.1 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75748.5 3 21.1.2 Providing and fixing 12 mm thick prefaminated particle board flat pressed three layer or graded wood particle board conforming to 15: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shuttless and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural frainings a							
pre-painted with polyester paint, all complete for all heights as per specifications drawings and as directed by Engineerin-charge. 1.2 12.52.2 GI Metal Celling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having glavanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Class fiber acoustical fleece. Aluminum Partitioning 2 2.1.1 Providing and King aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1255, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, it is, at 10, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stanless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 2.1.1.1 For fixed porition 2.2 2.1.1.2 Providing and fixing provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately): 3.1 2.1.2.2 Providing and fixing 12 mm thick prefaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling, fixed in aluminium doors, windows witheres and particle toward flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling, fixed in aluminium doors, w							
drawings and as directed by Engineer-in-charge. 1.2 12.52. GI Metals Celling Lay in perforated Teguate adeg global white color tiles of size 1024.7 Sqm 1163.90 1192671.6 \$95x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanaizing of 100 gm/sdqm (both sides inclusive) and 20% perforation area with 1.8 mm dis holes and having NRC (Noise Reduction Coefficient) of 0.6, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. Aluminum Partitioning 2 11.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded buttlury standard tubular sections? appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. 2.1 21.1.1 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746; 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746; 3.1.2 21.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746; 3.1.2 21.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 444.9 68955 Again 21.2 2 Pre-laminated particle board conforming to IS 12823 Grade Trype II, in panelling fixed in aluminium doors, windows structers and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and trincitions of Engineer-in-charge (Cost of aluminium snap beadi	1						
1.2 12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm die holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyseter powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acquisited fleece. 2							
S95x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (obts sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyseter power coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. 2 21.1 Providing and fixing aluminium mpartitioning with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitted and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ paneling, C P. brass / stanless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 Prof fixed portion 2.2 21.1.1.2 Prof shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to 15: 12823 Grade 1 Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and trierctions of Engineer-in-charge (Cost of aluminum sap beading shall be paid in basic item). 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per archi	1.2	12.52.2		1024.7	Sam	1163.90	1192671.6
galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. Aluminum Partitioning 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections? appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever required including cleat angle, Aluminium snappe beading for glazing/ paneling, C.P. brass/ stahless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.1.2 Provishuters of doors, windows & ventilators including providing and fixing hinges? 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197. Kg 384.5 7546. 3.2 2.1.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three can be always of the providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board only forming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge (Cost of aluminium snap beading shalt be paid in basic term): 5.1 21.32 Providing and fixing glazing in aluminium door, window, ventilators appeared to a particle particle board making good etc. complete	-				- 4 .11	22.00	
1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. 2. 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections? appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitted and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 Por fixed portion 2.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.2 11.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.1 21.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 5.2 1.3 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and particle board for panel particle board and particle board with decorative lamination on both sides 5. 21.3 Providing and fixing 10 min brass locks (best make of approved quality) for 2 each 35							
statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece. Aluminum Partitioning 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections of appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1265, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitted and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 3.2 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shuttlers and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pro-laminated particle board onforming to IS: 12823 Grade I Type II, in partition service, with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shalt be paid in basic item). 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6.2 21.3 Providing and fixing 100mm bra		•			,	.	
factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	.					•	
and backed with a black Glass fiber acoustical fleece. Alumnium Partitioning 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections? appropriate Z sections and other sections of approved make conforming to 15: 733 and 15: 1285, fixing with dash fasteners of required dia and size, including necessary filing up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.1 21.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 5.1 21.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4.2 2 1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 5.4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge (Cost of aluminum snap beading shall be paid in basic term): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6. 21.13 Providing and fixing aluminium dors window, ventilator shutters and partition fermes with c.P. brass / stainless steel screws etc. complete as per incharctural drawings and the directions of Engineer-in-charge (Cost of aluminum snap beading sh	1						
Aluminum Partitioning 2 21.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling. C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Prowider coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2.1 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Prowiding and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5.2 Sqm 866.6 21665.0 Sqm 7 Providing and fixing plazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium anappeadings necessary victing and making good etc. complete 7. 9.97 Providing and fixing aluminium tower botts, ISI marked, anodis			_ ,				
2 21.1.2 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, I.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746.5 3 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746.5 3 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 0.0 cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 2.1.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 6895.9 cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 2.1.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 6895.9 cost of standard stan			· · . · · · · · · · · · · · · · · ·				0.0
with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, penaling and dash fasteners to be paid for separately): 2.1 21.1.1 Por fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item). 5 1 21.3 Providing and fixing aluminium forminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the	2	21.1					0.0
sections of approved make conforming to IS 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mittred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746.5 3 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 68958 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.f 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item). 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.3 Providing and fixing aluminium tower botts. ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws e]						
fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746.5 1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 6895.8 1.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.0 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.13 Providing and fixing aluminium tower botts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade, with necessary screws etc	İ						
gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5 21.3 Providing and fixing aluminium tower botts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 7 9.97 Providing and fixing aluminium tower botts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 8 9.83 Providing and fixing alu			fasteners of required dia and size, including necessary filling up the gaps at				
iointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1			junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene				
beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.13 Providing and fixing aluminium tower boits, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 7 9.97 Providing and fixing aluminium doe cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete			gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and				
per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): 2.1 21.1.1 For fixed portion 2.2 21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5 21.3 Providing and fixing 100mm brass locks (best make of approved quality) for 2 each 359 718 (aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower boits, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door 4 each 414.45 1657 & closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete			jointed mechanically wherever required including cleat angle, Aluminium snap				
paneling and dash fasteners to be paid for separately): 2.1 21.1.1 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 3.1 21.1.2 Powder coated aluminium (minimum thickness of powder coating fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 5 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.13 Providing and fixing 10mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete			beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as				
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2.2 21.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 197 Kg 384.5 75746.5 21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 3.1 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 6895.9 4 21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.0 21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 13 Sqm 912.68 11864.8 21.13 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium door including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower boits, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS 1868.) transparent or dyed to required colour or shade, with necessary screws etc. complete. 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete							
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21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron) 15.5 Kg 444.9 6895.9							
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layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.0 Sqm partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 13 Sqm 912.68 11864.8 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 304.6 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS 13564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete				15.5	- Kg	444.9	
panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 4.1 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.0 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 13 Sqm 912.68 11864.6 21.13 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	4	21.2					0.0
brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. 21.2.2 Pre-laminated particle board with decorative lamination on both sides 25 Sqm 866.6 21665.0 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.13 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	I						
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partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 5.1 21.3.2 With float glass panes of 5.00 mm thickness 6 21.13 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 304.6 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete				25		0.00.0	
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21.13 Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 3046 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete							
aluminium doors including necessary cutting and making good etc. complete. 7 9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 304.6 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete							
9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9.97.3 200x10 mm 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	6	21.13		2	each	359	718.0
not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 304 6 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete			aluminium doors including necessary cutting and making good etc. complete.				
not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm	7	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating				0.0
or shade, with necessary screws etc. complete: 7.1 9.97.3 200x10 mm 4 each 76.15 304.6 8 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete		01					
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9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	7.1	9.97.3		4	each	76.15	304 E
closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete							
upto 35 kg and door width upto 700 mm), with necessary accessories and screws	-	0.00					
etc. complete							
	1						
1 A MARIE A COMMAND			leic complete		1	1	

	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised				0.00
		(anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to				
		required colour and shade, with necessary screws etc. complete.				
9.1		Twin rubber stopper	2	each	38	76.00
10	21.16.2	Providing and fixing aluminium American type handle of size 200 mm anodised (4	each	125	500.00
6	1	anodic caoting not less than grade AC10 as per IS:1868) transparent or dyed to		-		
		required colour or shade, with SS screws etc. complete as per direction of				
•		Engineer-incharge Make: Everest/ Argent/ Classic			'	,
		Linguista monargo make : Everess / rigens elastic				
11	NS	Providing and fixing aluminium channel (heavy duty) for slinding door with rollers	2	each	1220	2440.00
• •		& stop end upto length 1.20m with necessary screws etc. complete as per	_			
		direction of Engineer-in-charge.				
	L	Vitrified tiles				0.00
12	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per	997	Sam	1.5	1495.50
12	14.03		997	Sylli	1.5	1495.50
13	11.40	direction of the Engineer-in-Charge.				0.00
13	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be		1		0.00
		specified by the manufacturer), with water absorption less than 0.08% and				
		conforming to IS:15622, of approved brand & manufacturer, in all colours and			1	•
		shade, laid with cement based high polymer modified quick set tile adhesive		1	ì	
	1	(water based) conforming to IS: 15477, in average 6 mm thickness, including			i	
		grouting of joints (Payment for grouting of joints to be made separately).]	
13.1	11.49.2	Size of Tile 600x600 mm	948	Sqm	1169 55	1108733.40
14		Providing and laying Vitrified tiles in different sizes (thickness to be specified by				0.00
	1	the manufacturer), with water absorption less than 0.08% and conforming to IS:			i	0.00
		15622, of approved brand & manufacturer, in all colours and shade, in skirting,				
		riser of steps, laid with cement based high polymer modified quick set tile				
		adhesive (water based) conforming to IS: 15477, in average 6 mm thickness,				
		including grouting of joints (Payment for grouting of joints to be made separately).				
14.1		Size of Tile 600x600 mm	49	Sqm	1240.60	60789.40
15	11.50	Deduct for not grouting the joints with white cement and matching pigment in the	997	Sqm	8.30	8275.10
		items of fixing of vitrified tiles.				
16	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using				0.00
•		epoxy grout mix of 0.70 kg of organic coated filler of desired shade		i		
	1	(0.10 kg of hardener and 0.20 kg of resin per kg), including filling /				
		grouting and finishing complete as per direction of Engineer-in-charge.			}	
16.1	11.48.2	Size of Tile 600x600 mm	997	Sqm	167.05	166548.8
, , , ,	1				Total	2652107.4
		Add Cost Index (2 3.92%	on Rs.2	652107.45	
		oot man			otal Rs.	2756070.0
		Add Labour ces	s @ 1%			27560.7
		, rad capacit occ	. 70	J. 1110. L		2783630.7
			N.	S Item at	sr. no. 11	2440.0
				C	rand Total	2786070.7
						2786071.0
					UUV 1154	

J.E. (Civil)-1

A.E. (Civil)

Prof. (E&C)

Name of Department : School of Material Science & Technology

Name of Work : Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in

Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra

Specifications

Item	Code	Description .	Qty.	Unit	Rate	· Amount
No.		Falso selling		L		
1	12.52	False ceiling Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from				
		0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as				•
1.1	12.52.2	directed by Engineer-in-charge. GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI	137.50	Sqm	1163.9	160036.25
		sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.				
		Vitrified tiles				0.00
2		Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	237	Sqm	1.5	355.50 •
3	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
3.1		Size of Tile 600x600 mm	212	Sqm	1169.55	247944.60
4		Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
A 4	11 47 0	Size of Tile 600v600 mm	25.00	Cam	1240.60	21015.00
4.1 5		Size of Tile 600x600 mm Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	25.00 237.00	Sqm	1240.60 8.30	31015.00 1967.10
6		Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg·of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				0.00

Page 117 (Royal)

	Code	Description	Qty.	Unit	Rate	Amount
,	11.48.2	Size of Tile 600x600 mm	237.00	Sqm	167.05	39590.85
					Total Rs.	478942.20
1		Add Cost In	dex @ 3.92	% on Rs.	478942.20	18774.53
					Total Rs.	497716.73
		Add Labo	ur cess @ 1	% on Rs.	497716.73	4977.17
				G	rand Total	502693.90
					Say Rs.	502694.00

J.E. (Civil)-1 3510119

J.E. (Civil)-II

A.E. (Civil)

Prof.I/C. (E&C)

a of Work

δf Department: Mechanical Engineering Departmentof Work: Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in
Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra

Specifications

14 1		Specifications				
item	Code	Description	Qty.	Unit	Rate	Amount
No.						
	:	False Ceiling				
1	12.52	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm				
1		in true horizontal level, suspended on inter locking metal grid of hot dipped		1	1 1	
		galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive)			1	
1		consisting of main "T" runner with suitably spaced joints to get required length		1	1 1	
- 1		and of size 24x38 mm made from 0.30 mm thick inimum) sheet, spaced at 1200		1		
l						
]		mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick		1	1 1	
1		(minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to			1 1	
l		center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm		1	1 1	
		and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at	i .	1	1 1	•
- 1		middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle	1	1	1 1	
		of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid		1	1	
1		including, required cutting/making, opening for services like diffusers, grills, light		1	1 1	
- 1		fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from		į .	1	
- 1		ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with		1	1 1	
		12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with			1	
ļ		galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm		ļ	1	
		center to center along main T, bottom exposed width of 24 mm of all T-sections			į į	
		shall be pre-painted with polyester paint, all complete for all heights as per				
		snall be pre-painted with polyester paint, all complete for all neights as per specifications, drawings and as directed by Engineer-in-charge.				
		specifications, drawings and as directed by Engineer-in-charge.				
1.1	12.52.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size	651.00	Sqm	1163.9	757698.9
		595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having				
		galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with				
		1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro			1	
•		statically polyester powder coated of thickness 60 microns (minimum), including			1	
[factory painted after bending and perforation, and backed with a black Glass			1	
					1	
		fiber acoustical fleece.				· -,
2	14.00	Vitrified floor tiles	252	C	 	378
4		Hacking of CC flooring including cleaning for surface etc. complete as per	252	Sqm	1.5	3/8
2		direction of the Engineer-in-Charge.			ļ	
3		Providing and laying Vitrified tiles in floor with different sizes (thickness to be				٥١
		specified by the manufacturer), with water absorption less than 0.08% and				
- 1	-	conforming to IS:15622, of approved brand & manufacturer, in all colours and		1	1 1	
i		shade, laid with cement based high polymer modified quick set tile adhesive	ļ	1	1	
	1		1	i		
- 1	i	(water based) conforming to IS: 15477, in average 6 mm thickness, including		1	1 1	
		grouting of joints (Payment for grouting of joints to be made separately).				
3.1	11.49.2	Size of Tile 600x600 mm	220	Sqm	1169.55	257301
4	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by				0
		the manufacturer), with water absorption less than 0.08% and conforming to IS:				
		15622. of approved brand & manufacturer, in all colours and shade, in skirting.		l	1	
		riser of steps, laid with cement based high polymer modified quick set tile			1	
		adhesive (water based) conforming to IS: 15477, in average 6 mm thickness,				
		including grouting of joints (Payment for grouting of joints to be made			1	
1		separately).				
		Size of Tile 600x600 mm	32.00	Sam	1240.6	39699.2
- 1		Deduct for not grouting the joints with white cement and matching pigment in the		Sqm		
	44 50	Ligation for not arouting the joints with white coment and matching highest in the	252.00	Sqm	8.30	2091.6
		items of fixing of vitrified tiles.				
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using				0
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade				0
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /				0
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /				
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade	252.00	Sqm	167.05	42096.6
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.		Sqm	167.05	
	11.48	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm		Sqm	167.05	
·	11.48.2	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means		Sqm	167.05	42096.6
·	11.48.2	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction		Sqm	167.05	42096.6
5	11.48.2	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	252.00			42096.6 0
	11.48 11.48.2 15.2	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design		Sqm	997.05	42096.6 0
5	11.48.2 15.2 15.2.1	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	252.00			42096.6 0 0 24926.25
5	11.48.2 15.2 15.2.1 4.1	items of fixing of vitrified tiles. Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm Kota Stone Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design	252.00			42096.6

	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	25	Cum	4814.55	120363.75
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed	 	 		
	1	with grey cement slurry mixed with pigment to match the shade of the slab,				O
		including rubbing and polishing complete with base of cement mortar 1:4 (1		1		
		cement : 4 coarse sand) :				
7.1		25 mm thick	196.00	Sqm	1158.10	226987.6
8	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on	35.00	Sqm	1238.20	43337
		12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed		}	1	
1		with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				
-	.1	Aluminum Partitioning	ļ	 		
9	21.1	Providing and fixing aluminium work for doors, windows, ventilators and				
		partitions with extruded built up standard tubular sections/ appropriate Z sections				
1	}	and other sections of approved make conforming to IS: 733 and IS: 1285, fixing			1	
ļ	1	with dash fasteners of required dia and size, including necessary filling up the	ł		i · 1	
1	1	gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/				
ł		neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight,	l .			_
	}	mitred and jointed mechanically wherever required including cleat angle,	1		1	•
1					1	
	1	Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel			!	
4		screws, all complete as per architectural drawings and the directions of Engineer	1			
0.1	24.4.4	in-charge. (Glazing, paneling and dash fasteners to be paid for separately):	ļ			
9.1	21.1.1	For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	520	IV.	2015	0
10	21.1.1.2	For shutters of doors, windows & ventilators including providing and fixing	539	Kg.	384.5	207245.5
'	21.1.2	hinges/ pivots and making provision for fixing of fittings wherever required				O.
		including the cost of EPDM rubber / neoprene gasket required (Fittings shall be	1			
1		paid for separately)				
10.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	16	Kg.	444.9	7118.4
11		Providing and fixing 12 mm thick prelaminated particle board flat pressed three		1		0
	ĺ	layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in		1 1	1	
1	1	panelling fixed in aluminum doors, windows shutters and partition frames with			ì	ļ
	1	C.P. brass / stainless steel screws etc. complete as per architectural drawings		1 1	ĺ	
		and directions of Engineer-in-charge.				
11.1		Pre-laminated particle board with decorative lamination on both sides	75	Sqm	866.6	64995
12	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and			1	0
		partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the			į	
	}	architectural drawings and the directions of Engineer-in-charge. (Cost of			1	
12.1	2132	aluminium snap beading shall be paid in basic item): With float glass panes of 5.00 mm thickness	30	Cam	912.68	27200 4
13		Providing and fixing 100mm brass locks (best make of approved quality) for	2	Sqm Each	359	27380.4 718
'	21.13	aluminium doors including necessary culting and making good etc. complete.	2	Lacii	339	7 10
14	0.07					0
14	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required			1	U
		colour or shade, with necessary screws etc. complete:			1	
14.1	9 97 3		4	Each	76.15	304.6
15		Providing and fixing aluminium die cast body tubular type universal hydraulic	4	Each	414.45	1657.8
	0.00	door closer (having brand logo with ISI, IS: 3564, embossed on the body, door	1	Lacin	414.43	1007.0
	i	weight upto 35 kg and door width upto 700 mm), with necessary accessories and		1		
		screws etc. complete.				
16	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised				0
		(anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed		1		
		to required colour and shade, with necessary screws etc. complete.				
16.1	9.101.2	Twin rubber stopper	2	Each	38	76
17	21.16.2	Providing and fixing aluminium American type handle of size 200 mm anodised (4	Each	125	500
	1	anodic caoting not less than grade AC10 as per IS:1868) transparent or dyed to		}	-	
		required colour or shade, with SS screws etc. complete as per direction of				
18	N.S.	Providing and fixing aluminium channel (heavy duty) for slinding door with rollers	2	Each	1220	2440
		& stop end upto length 1.20m with necessary screws etc. complete as per			-	
	J	direction of Engineer-in-charge.			Total	1004075.00
		Add Cost Inc	PX @ 3 0	2% on Pc 1		1824875.60 71535.12
		Add Cost ille	0.00		Total Rs.	1896410.72
		Add Labou	r cess @			18964.11
		, au Eayou			Total Rs.	1915374.83
				Add NS I	tem No.18	2440.00
					d Total Rs.	1917814.83
					Say Rs.	1917815.00
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J.E. (0	Olvil)	=10 N 1	•	J.F. (Q)	vil)-ll `ゟ゚ \	, ,
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A.E. (Civil) 25/01/19

-46-

Name (1Dependence) Physical Education & Scores Section

Name: A Vork Poligh Cool Hallmate for Viti Led Lleg. Tiles. Forse Celling & Alpennium Fartisching in Various labs, Class Rooms & Offices etc. in various Departments at NFT Korokshalts.

Specifications

		Specifications				
Pen	Corte	Description	Gly.	; Jal	Rate	Ain out
No.		i		: —		
		Lalse Seilog				
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		(599×595 maillouting industrial feed is uppercise counter looking metal)			1 1	
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		spaced jords to get required length and of dige 25939 for inside from		1		
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	l	immittaning for some land cross. The fisher 24x20 cm increase of 0.32 cm.		1	Ι.	
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		pured medical or in explaned parting/making repertor from show and like				
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		(iii) it to ensure be suscended from periodolus no Ghalctied is pary of		1	- 1	
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		proteins for indicated \$ 50.86 × 50 × , 08 mm seared at 1200 km r			i	
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		is Perons as delianconcations, drawings and as director by				
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П	72023	Of Metal Celling Ca, in principled Highlightedge plut at white other alex	105.00	2qm	11339	1454910
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		shoot having precenting of 1.00 prosisgin spath rates (otherwill) and				
ı		20% build unon area with 10 own the hales and having ARU (Noise		!	.	
!		Production Challed aminot 0.5 to occurs white a provincial advice coalest			!	
•		of this response for the construction, in a material of the day use (e.g. short)			- 1	
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I	16.33	woung of CC flooring in Judition loss and for surface connection as		I- _{Տիր} ը։	15	111.63
		or degree of the Engineer in Change		. 9 111		,
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ļ		indigiting diameter of marginal within 50 mones head verger Juntation			Ι ΄	
		r thingues in the production of the production o			!	114.4. 36
7		Manufacture to 12.6 progression (17, 16, 82 cm) bearing	25	1.50 %	964,09	16 (5): 29
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1 .	4.1	Providence of tegral, in the from our control reflecting about quade			l	
		Could be in the cost of Congrand shottening of closest and billion				
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Item No.	Code	Description	Qty.	Unit	Rate	Amount		
6	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00		
6.1	11.47.2	Size of Tile 600x600 mm	15.00	Sqm	1240.60	18609.00		
7	11.5	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	165.00	Sqm	8.30	1369.50		
8	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				0.00		
8.1	1.48.2	Size of Tile 600x600 mm	165.00	Sqm	167.05	27563.25		
					Total	469162.30		
		Add Cost Inc	dex @ 3.92°			18391.16 487553.46		
	Total Rs.							
		Add Labou	r cess @ 1		487553.46	4875.53		
				Gran	Total Rs.	492429.00 492429.00		
					Say Rs.	492429.00		
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J.E. (CIVI) 9 5 01 19

A.E. (Civil) 25/01/19

Prof.1/C. (E&C)

Name of Department : Computer Applications

Name of Work : Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in

Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra

Specifications

		Specifications				
Item No.	Code	Description	Qty.	Unit	Rate	Amount
		False ceiling				
		Already exist where required				•
		Aluminum Partitioning				
1	21.1	Providing and fixing aluminium work for doors, windows, ventilators and				
		partitions with extruded built up standard tubular sections/ appropriate Z		1		
		sections and other sections of approved make conforming to IS: 733		1 1		
		and IS: 1285, fixing with dash fasteners of required dia and size,		1		
ļ		including necessary filling up the gaps at junctions, i.e. at top, bottom		1 1		
		and sides with required EPDM rubber/ neoprene gasket etc. Aluminium		1		
		sections shall be smooth, rust free straight, mitred and jointed				
į		mechanically wherever required including cleat angle, Aluminium snap				
į		beading for glazing / paneling, C.P. brass / stainless steel screws, all				
		complete as per architectural drawings and the directions of Engineer-in-		1		
		charge. (Glazing, paheling and dash fasteners to be paid for separately)			4	· [
1.1		For fixed portion				
1.2	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50	1047	Kg	384.5	402571.50
		micron)				
2	21.1.2	For shutters of doors, windows & ventilators including providing and				
		fixing hinges/ pivots and making provision for fixing of fittings wherever			}	
		required including the cost of EPDM rubber / neoprene gasket required		1		
	24.4.2.2	(Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50	10	- Va	444.9	4449.00
2.1	21.1.2.2	micron) -	10	Kg	444.9	4449.00
3	21.2	Providing and fixing 12 mm thick prelaminated particle board flat				
		pressed three layer or graded wood particle board conforming to IS:				
		12823 Grade I Type II, in panelling fixed in aluminum doors, windows				_
		shutters and partition frames with C.P. brass / stainless steel screws				•
		etc. complete as per architectural drawings and directions of Engineer-			ļ	
3.1		in-charge. Pre-laminated particle board with decorative lamination on both sides	110	Sqm	866.6	95326.00
3.1				Sqiii		
4	21.3	Providing and fixing glazing in aluminium door, window, ventilator				
l		shutters and partitions etc. with EPDM rubber / neoprene gasket etc.				
		complete as per the architectural drawings and the directions of				
-		Engineer-in-charge . (Cost of aluminium snap beading shall be paid in				
		basic item):		-	040.00	45004.00
4.1		With float glass panes of 5.00 mm thickness	50 1	Sqm	912.68	45634.00
5	21.13	Providing and fixing 100mm brass locks (best make of approved	ı	Each	359	359.00
		quality) for aluminium doors including necessary cutting and making good etc. complete.				
6	9 97	Providing and fixing aluminium tower bolts, ISI marked, anodised		 		
	0.07	(anodic coating not less than grade AC 10 as per IS 1868)				
•		transparent or dyed to required colour or shade, with necessary screws				
		etc. complete :				
6.1		200x10 mm	2	Each	76.15	152.30
7		Providing and fixing aluminium die cast body tubular type universal	2	Each	414.45	828.90
		hydraulic door closer (having brand logo with ISI, IS 3564, embossed				
		on the body, door weight upto 35 kg and door width upto 700 mm), with				
		necessary accessories and screws etc. complete.				
8	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked,				
		anodised (anodic coating not less than grade AC 10 as per IS : 1868)				
		transparent or dyed to required colour and shade, with necessary				
		screws etc. complete.				
8.1	9.101.2	Twin rubber stopper	11	Each	38	38.00

Ryong 75/01/19

	21.16.2	Providing and fixing aluminium American type handle of size 200 mm	2	Each	125	250.00			
		anodised (anodic capting not less than grade AC10 as per IS:1868)				1			
		transparent or dyed to required colour or shade, with SS screws etc.			1				
		complete as per direction of Engineer-incharge Make : Everest/ Argent/							
		Classic							
10	N.S.	Providing and fixing aluminium channel (heavy duty) for slinding door	1 .	Each	1220	1220.00			
		with rollers & stop end upto length 1.20m with necessary screws etc.							
		complete as per direction of Engineer-in-charge.							
		Vitrified Tiles							
		Already exist where required							
					Total	549608.70			
		Add Cosi	Index @ 3	3.92% on R	s. 549608.70	2 544.66			
					Total Rs.	571153.36			
Add Labour cess @ 1% on Rs. 571153.36									
Grand Total									
		Say Rs.							

J.E. (Civil)-250119

A.E. (Civil)

Prof.I/C. (E&C)

Same of Work

Rough Cost Estimate for Viollied Floor Tites, Palse Calling & Alumnium Particoning in Various aboli Closs Rooms & Offices etc. in vorce is Departments at NIT Koruksheba.

	Specifications				
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		Vitrified Tiles				0.0
6	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	1300	Sqm	1.5	1950.00
	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
7.1	11.49.2	Size of Tile 600x600 mm	1185	Sqm	1169.55	. 1385916.75
8	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
8.1	11.47.2	Circ. (Til. 000 000	115.00	Cara	1240.60	142669.00
9	11.5	Size of Tile 600x600 mm Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	1300.00	Sqm Sqm	8.30	10790.00
10	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				0.00
10.1	11.48.2	Size of Tile 600x600 mm	1300.00	Sqm	167.05	217165.00
					Total	2342685.33
		Add Cost Inde	x @ 3.92%			91833.26
					Total Rs.	2434518.59
		Add Labour	cess @ 1%		2434518.59 Frand Total	24345.19 2458863.78
					Say-Rs.	2458864.00
	1				Jayris.	2400004.00

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Prof.I/C. (E&C)

Name of Department : School Of VLSI Design & Embeded Systems.

Name of Work

: Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra.

Specifications

		Specifications				
Item No.	Code	Description	Qty.	Unit	Rate	Amount
		Vitrified Tiles		·		
1	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	202	Sqm	1.5	303.00
2	11.49	Providing and laying Vitrified tiles in, floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
2.1.	11.49.2	Size of Tile 600x600 mm	188	Sqm	1169.55	219875.40
3	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
3.1	11,47.2 .	Size of Tile 600x600 mm	14.00	Sgm	1240.60	17368.40
4	11.5	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	202.00	Sqm	8.30	1676.60
	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-incharge.			-	0.00
5.1	11,48.2	Size of Tile 600x600 mm	202.00	Sqm	167.05	33744.10
					Total	272967.50
		Add Cost Ind	ex @ 3.92	% on Rs.		10700.33
					Total Rs.	283667.83
		Add Labour	cess @ 1	% on Rs.	283667.86	2836.68
						286504.50
					Say Rs.	286504.50

Name of Department : Central Workshop.

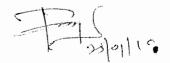
Name of Work

: Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in Various

labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra.

Specifications

Item No.	Code	Description	Qty.	Unit	Rate	Amount
		Vitrified Tiles		T		
1	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	375	Sqm	1.5	562.50
2	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
2.1.	11.49.2	Size of Tile'600x600 mm	340	Sqm	1169.55	397647.00
3	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	,			0.00
3.1.	11.47.2	Size of Tile 600x600 mm	35.00	Sqm	1240.60	43421.00
4	11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	375.00	Sqm	8.30	3112.50
5	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				0.00
5.1	11.48.2	Size of Tile 600x600 mm	375.00	Sqm	167.05	62643.75
-		Kota Stone				0.00
6	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				0.00
6.1	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	132	Cum	997.05	131610.60
7	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				0.00
7.1	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	83	Cum	4814.55	399607.65



/tem No.	Code	Description	Qty.	Unit	Rate	Amount
8	11:26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1:4 (1 cement: 4 coarse sand):				0.00
8.1	11.26.1	25 mm thick	1100.00	Sqm	1158.10	1273910.00
9	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.		Sqm	1238.20	74292.00
					Total	2383694.50
		Add Cost Index @ 3	.92% on F	Rs. 23	83694.50	93440.82
					otal Rs.	2477135.32
		Add Labour cess (② 1% on F			24771.35
				Gra	and Total	
, J.E. (0	civil)-125 01	K9			Say Rs.	2501907.00 2501907.00 . (Civil)-II

A.E. (Civil)

Prof.I/C. (E&C)

Name of Name of Work

: Civil Engineering. : Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra.

Specifications

Item No.	Code	Description	Qty.	Unit	Rate	Amount
1	21.1	Aluminum Partitioning Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately):				
1.1		For fixed portion ' Powder coated aluminium (minimum thickness	374	Kg	384.5	143803.00
2		of powder coating 50 micron) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings		Ng	304.3	0.00
2.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	15	Kg	444.9	6673.50
3	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.				0.00
3.1	21.2.2	Pre-laminated particle board with decorative lamination on both sides	40	Sqm	. 866.6	34664.00
4	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				0.00
4.1	21.3.2	With float glass panes of 5.00 mm thickness	23	Sqm	912.68	20991.64
5	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2	Each	359	718.00
6	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:				0.00
6.1	9.97.3	200x10 mm	4	Each	76.15	304.60
7	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	4	Each	414.45	1657.80

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Item No.	Code	Description	Qty.	Unit	Rate	Amount
8	9.101	door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				0.00
9		Twin rubber stopper Providing and fixing aluminium American type handle of size 200 mm anodised (anodic caoting not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade, with SS screws etc. complete as per direction of Engineer-incharge Make: Everest/ Argent/ Classic	4	Each Each	38 125	76.00 500.00
10	N.S.	Providing and fixing aluminium channel (heavy duty) for slinding door with rollers & stop end upto length 1.20m with necessary screws etc. complete as per direction of Engineer-incharge.	2	Each	1220	2440.00
11	14.83	Vitrified Tiles Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	206	Sqm	1.5	0.00 309.00
12	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
12.1	11.49.2	Size of Tile 600x600 mm	170	Sqm	1169.55	198823.50
13	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				0.00
13.1	11.47.2	Size of Tile 600x600 mm	36.00	Sqm	1240.60	44661.60
14	11.5	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	206.00	Sqm	8.30	1709.80
15	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				0.00
15.1	11.48.2	Size of Tile 600x600 mm	206.00	Sgm	167.05	34412.30
16	2.8	CGI Sheet Shade Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				0.00
16.1	2.8.1	All kinds of soil.	3.00	Cum	166.40	499.20
17	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				0.00

-57- Fresh (01)

Item No.	Code	Description	Qty.	Unit	Rate	Amount
17.1	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone	3.00	Cum	5924.65	17773.95
18	10.16	aggregate 20 mm nominal size). Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with				0.00
		special shaped washers etc. complete.	j			
18.1	10.16.1	Hot finished welded type tubes	800.00	Kg	90.25	72200.00
19	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet				0.00
		washers or with G.l. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
19.1	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m ²	65	Sqm	905.50	58857.50
20	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				0.00
20.1	13.85.2	With ready mixed red oxide zinc chromatic on steel / iron works having VQC content less than 250 grams/ litre	50	Sqm ,	32.55	1627.50
21	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				0.00
21.1	13.61.1	Two or more coats on new work	50	Sqm	78.40	3920.00
					Total	644182.89
		A	dd Cost Inde	x @ 3.92%	on Rs. 612210.59	25251.97
			A dal I albania	(2) 10/	Total Rs.	669434.86
<u> </u>			Add Labour (cess @ 1%	on Rs. 669434.35 Total Rs.	6694.35 676129.21
				A	dd NS item no.10	2440.00
					Grand Total	678569.21
					Say Rs.	678569.00
S.E. (0	7 1	5/0/19			J.E. (Civil)-II	(01/19

A.E. (Civil)

Prof.I/C. (E&C)

Name of Department : Chemistry.

Name of Work:

: Rough Cost Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitioning in Various labs, Class Rooms & Offices etc. in various Departments at NIT Kurukshetra

Specifications

		Specifications				
item No.	Code	Description	Qty.	Unit	Rate	Amount
		Vitrified Tiles				
1	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	548	Sqm	1.5	822.00
2	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	•			
2.1.	11.49.2	Size of Tile 600x600 mm	. 265	Sqm	1169.55	309930.75
3	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				•
3.1	11.47.2	Size of Tile 600x600 mm	53.00	Sqm	1240.60	65751.80
4	11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	318.00	Sqm	8.30	2639.40
5	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				
5.1	11.48.2	Size of Tile 600x600 mm	318.00	Sqm	167.05	53121.90
		Chemical Resistance Tile				
6	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid nd/or alkali resisting cement as per IS: 4457, complete as per the direction of Engineer-in- Charge.				
6.1	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
6.2	11.21.1.1	Acid and alkali resistant tile	230.00	sqm	1073.35	246870.50
7	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
7.1	11.22.2.1	Acid and alkali resistant tile	50.00	sqm	1043.6	52180.00
					Total	728676.95
		Add Cost Ind	ex @ 3.92	% on Rs	. 728676.95	28564.14
					Total Rs.	757241.09
		Add Labou	r cess @ 1		. 757241.09	7572.41
					Grand Total	♥64813.50
					Say Rs.	764814.00

Cost Estimate for material/Items required for Electrical fitting, fixtures including flood light on roof top of sports complex Dept. at NIT, Kurukshetra

Sr.No.	Item Description	Qty	Rate	Unit	Amount	Remark
			(in Rs)		(in Rs.)	
1	2.5 sq mm. PVC single core multi	2 Roll	1800.00	Roll	3600.00	
	strand Copper wire	(180 mtrs.)		(90mtrs.)		As per
2	1 " PVC conduit pipe	300 ft.	5.00	Ft.	1500.00	market
3	1" PVC junction Box	8 Nos.	10.00	Nos.	80.00	Survey
• 4	1" PVC Bend	10 Nos.	10.00	Nos.	100.00 .	
5	1½ PVC Gitty	100 Nos.	1.00	Nos.	100.00	
6	1½" Wooden Screw	100 Nos.	1.50	Nos.	150.00	
7	1¼" Gl Clamp	60 Nos.	4.5	Nos.	270.00	
8	8 mm. Fastener	20 Nos.	10	Nos.	200.00	
9	150 watt, 15000-20000 Lumen Super Efficiency 130 Lumen to Watt - 5000K Bright White LED Flood light.	7 Nos.	6000.00	. Nos.	42000.00	•
10	PVC Tape	3 Nos.	10.00	Nos.	30.00	
			To	tal	48030.00	

A.E (Electrical)

Faculty I/C (EM & T)

J.E (Electrical)

The detailed cost estimate for renovation/refurbishment of toilets etc. and internal/external finishings of Sports Complex at NIT Kurukshetra Specifications

Description	Qty.	Unit	Rate	Amount	DSR Item
					No.
Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					15.2
Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	13.86	Cum	615.15	8525.979	15.2.2
Providing and laying in position cement concrete of specified grade excluding the cost of centering and					4.1
shuttering - All work up to plinth level: 1:5:10 (1 cement : 5 fine sand : 10 graded stone	7	Cum	4209.05	29463.35	4.1.11
aggregate 40 mm nominal size). "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded	4.46	Cum	5481.95	24449.497	4.1.3
stone aggregate 20 mm nominal size). Providing and fixing 1st quality ceramic glazed wall		Sqm	744.8	261678.03	11.36
tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green,					
black of any size as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @		-			•
3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	1				
Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on		Sqm	747.9	63578.979	11.38
20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.					
Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments					11.41
etc., complete.	145.0		1110 0	120054 22	11 11 2
					11.41.2
cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the		Each	170.4	332.0	14.03
Siz Tal cut shu rep all	e of Tile 600x600 mm king out existing wooden door shutter, repair by ting, painting etc. and refixing of repaired door utters to existing door frames, including placement of hinges with screws, etc. as required,	e of Tile 600x600 mm ting out existing wooden door shutter, repair by ting, painting etc. and refixing of repaired door utters to existing door frames, including placement of hinges with screws, etc. as required, complete as per the direction of the	e of Tile 600x600 mm ting out existing wooden door shutter, repair by ting, painting etc. and refixing of repaired door atters to existing door frames, including blacement of hinges with screws, etc. as required, complete as per the direction of the	e of Tile 600x600 mm 115.2 Sqm 1119.2 king out existing wooden door shutter, repair by ting, painting etc. and refixing of repaired door utters to existing door frames, including blacement of hinges with screws, etc. as required, complete as per the direction of the	ting, painting etc. and refixing of repaired door utters to existing door frames, including complete as per the direction of the

1 7	Providing and fixing angle iron frames for doors,	24.6	kg	66	1623.6	10.31
	windows and ventilators of mild steel Angle sections					
1	of size 35x35x5 mm, joints mitred and welded by			1		•
	angle iron 35x35x5 mm or 35x 5 mm flat					
	pieces to the existing T-iron frame or to the wall with					
	dash fastener, including fixing of necessary butt					
	hinges and screws and applying a priming coat of					
	approved steel primer, all complete as per the					
	direction of Engineer-In-charge.					
8	Providing and fixing ISI marked flush door shutters					9.21
						0.2
	conforming to IS: 2202 (Part I) non-decorative type,					
	core of block board construction with frame of 1st					
	class hard wood and well matched commercial 3 ply					
	veneering with vertical grains or cross bands and					
	face veneers on both faces of shutters:					
8.1	35 mm thick including ISI marked Stainless Steel	11	Sqm	1559.75	17157.25	9.21.1
	butt hinges with necessary screws					
9	Dismantling 15 to 40 mm dia G.I. pipe including	275	Metre	2	550	14.84
	stacking of dismantled pipes within 50 metres lead					
	as per direction of Engineer- in-Charge. (a) Internal	,				
	Work - Exposed on wall					
10	Providing and fixing G.I. Pipes complete with G.I.					18.11
	fittings and clamps, i/c making good the walls etc.					
	concealed pipe, including painting with anti corrosive				,	
	bitumastic paint, cutting chases and making good					
1	the wall:					•
10.1	15 mm dia nominal bore	100	metre	285.7	28570	18.11.1
10.1	20 mm dia nominal bore	150	metre	316.2	47430	18.11.2
11	Providing and fixing G.I. pipes complete with G.I.	130	illette	310.2	4/430	18.12
''	fittings including trenching and refilling etc.					10.12
: 111						
11.1	External work	7.5	motro	205.05	15420 75	10 12 2
11.2	External work 25 mm dia nominal bore	75	metre	205.85	15438.75	18.12.3
	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal	75 8	metre Each	205.85 55.45	15438.75 443.6	18.12.3 14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per					
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.					14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan	8				
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and	8				14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:	8	Each	55.45	443.6	14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of	8				14.82
13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	8	Each	55.45	443.6	14.82
11.2	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets,	8	Each	55.45	443.6	14.82
13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass	8	Each	55.45	443.6	14.82
13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of	8	Each	55.45	443.6	14.82 17.1
13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the	8	Each	55.45	443.6	14.82
11.2 12 13 13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:	8	Each	3494.2	27953.6	17.1.1 17.7
13.1	External work 25 mm dia nominal bore Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the	8	Each	55.45	443.6	14.82 17.1

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, 15	Providing and fixing white vitreous china flat back					17.5
'3	half stall urinal of size 580x380x350 mm with white					17.5
	PVC automatic flushing cistern, with fittings,					
1	standard size C.P. brass flush pipe, spreaders with					•
}	unions and clamps (all in C.P. brass) with waste					
	fitting as per IS: 2556, C.I. trap with outlet grating					
	and other couplings in C.P. brass, including painting					
	of fittings and cutting and making good the walls and					
	floors wherever required :					
15.1	Range of two half stall urinals with 5 litre P.V.C.	4	Each	9317.6	37270.4	17.5.2
	automatic flushing cistern .					
16	Providing and fixing chaina Urinals with 5 litre P.V.C.	8	Each	390	3120	NS
	automatic flushng cistern.					
17	Providing and fixing stone slab with table rubbed,					8.10
	edges rounded and polished, of size 75x50 cm deep					
	and 1.8 cm thick, fixed in urinal partitions by cutting					
	a chase of appropriate width with chase cutter and					
.]	embedding the stone in the chase with epoxy grout					
	or with cement concrete 1:2:4 (1 cement : 2 coarse					
	sand : 4 graded stone aggregate 6 mm nominal size)					
	as per direction of Engineer-in-charge and finished					
	smooth.					
17.1	Granite Stone of approved shade	0.8	Sqm	2831.95	2265.56	8.10.2
18	Providing and fixing C.P. brass bib cock of approved	0.0	39111	2001.00	2203.50	18.49
10	quality conforming to IS:8931 :					10.43
101	15 mm nominal bore	16	Each	371.7	5947.2	18.49.1
18.1		10	Each	3/1./	3947.2	
19	Providing and fixing C.P. brass angle valve for basin					18.53
	mixer and geyser points of approved quality					
10.4	conforming to IS:8931	- 00	Foob	475.7	12269.2	15.53.1
19.1	15mm nominal bore	26	Each	4/5./	12368.2	
20	Providing and fixing PTMT grating of approved					18.58.
	quality and colour.					
20.1	Circular type					18.58.1
20.2	125 mm nominal dia with 25 mm waste hole	12	Each	45.55	546.6	18.58.1.2
21	Providing and fixing uplasticised PVC connection			1		18.21
	pipe with brass unions :					
21.1	45 cm length					18.21.2
	15 mm nominal bore	30	Each	67.8	2034	18.21.2.1
22	Distempering with 1st quality acrylic distemper					13.42
	(ready mixed) of approved manufacturer, of required					
	shade and colour complete, as per manufacturer's					•
	specification.					
22.1	Two or more coats on new work	1561	Sqm	53.15	82971.402	13.42.1
23	Finishing walls with Premium Acrylic Smooth exterior	1301	- Ogiii	30.10	02011.402	13.47
23	Fillishing waits with Fremium Acrylic Smooth extendi			İ		13.47
	noint with Cilicono additives of required shade:					
00.4	paint with Silicone additives of required shade:	606.0	Cina	96.05	58224 55	13.47.1
23.1	New work (Two or more coats applied @ 1.43 ltr/10		Sqm	90.05	58224.55	13.47.1
	sqm over and including priming coat of exterior					
	primer applied @ 2.20 kg/10 sqm)					
24	Brick work with common burnt clay F.P.S. (non					6.4
	modular) bricks of class designation 7.5 in					
	superstructure above plinth level up to floor V level					
	in all shapes and sizes in :					
24.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	5.71	Cum	5801.5	33126.565	6.4.1
25	Steel reinforcement for R.C.C. work including					5.22
	straightening, cutting, bending, placing in position					
	and binding all complete upto plinth level.					
25 1	Thermo-Mechanically Treated bars of grade Fe-	49.61	Kg	56.6	2807.926	5.22.6
201	500D or more.	.5.51	.,9	30.0		
	JOOD OF HIOTO.		L			

COS of Consequently Addressed by the selection of the contract



(y					
26	Centering and shuttering including strutting,					5.9
	propping etc. and removal of form for all heights:					
26.1	Lintels, beams, plinth beams, girders, bressumers	2.23	Sqm	342.9	764.667	5.9.5
07	and cantilevers	0.2	C	7390.8	2217.24	5.3
27	Reinforced cement concrete work in beams,	0.3	Cum	7390.8	2217.24	5.5
	suspended floors, roofs having slope up to 15°					
	landings, balconies, shelves, chajjas, lintels, bands,					
	plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the					
	cost of centering, shuttering, finishing and					
	reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse					
	sand (zone-III) : 3 graded stone aggregate 20 mm					
	nominal size).					
28	15 mm cement plaster on rough side of single or half					13.8
20	brick wall finished with a floating coat of neat cement					10.0
	of mix:					
28.1	1:4 (1 cement: 4 fine sand)	53.65	Sqm	241.5	12956.475	13.8.2
29	Providing and fixing ISI marked oxidised M.S.	00.00			12000.110	9.66
20	handles conforming to IS:4992 with necessary					
	screws etc. complete :					
29.1	100 mm	10	Each	51.05	510.5	9.66.2
30	Providing and fixing ISI marked oxidised M.S. tower					9.63
İ	bolt black finish, (Barrel type) with necessary screws					
	etc. complete				,	
30.1	250x10 mm	10	Each	64.00	640	9.63.1
31	Providing and fixing ISI marked oxidised M.S. sliding					9.62
						•
	door bolts with nuts and screws etc. complete:					
31.1	300x16 mm	5	Each	154.85	774.25	9.62.1
32	Painting with synthetic enamel paint of approved					13.61
	brand and manufacture to give an even shade:					
32.1	Two or more coats on new work sqm	18.89	Sqm	78.40	1480.976	13.61.1
33	Distempering with oil bound washable distemper of					13.41
	approved brand and manufacture to give an even					
	shade:				0.510.001	10.11.1
33.1	New work (two or more coats) over and including	26.82	Sqm	93.70	2513,034	13.41.1
	water thinnable priming coat with cement primer	0.4.00		50.45	4020 040	40.1
34	Structural steel work in single section, fixed with or	84.36	Kg	58.45	4930.842	10.1
	without connecting plate, including cutting, hoisting,					
	fixing in position and applying a priming coat of				ļ	•
ļ	approved steel primer all complete.					4 4 6 4
35	Painting with synthetic enamel paint of approved			•		14.54
	brand and manufacture of required colour to give an					
25.4	even shade :	150.0	Carr	51.20	7836.588	14.54.1
35.1	One or more coats on old work	152.8	Sqm	51.30 795.15	6361.2	14.54.1 17.22A
36	Providing and fixing CP Brass 32mm size Bottle		each	195.15	0301.2	11.221
	Trap of approved quality & make and as per the					
0.7	direction of Engineerin- charge.					18.10
37	Providing and fixing G.I. pipes complete with G.I.					10.10
	fittings and clamps, i/c cutting and making good the					•
07.4	walls etc.	9	meter	308.35	2775.15	18.10.4
37 1	32 mm dia nominal bore					
38	Providing and fixing 600x450 mm beveled edge	8	Each	817.95	6543.6	17.31
	mirror of superior glass (of approved quality)					
	complete with 6 mm thick hard board ground fixed to					
	wooden cleats with C.P. brass screws and washers complete.					

ř



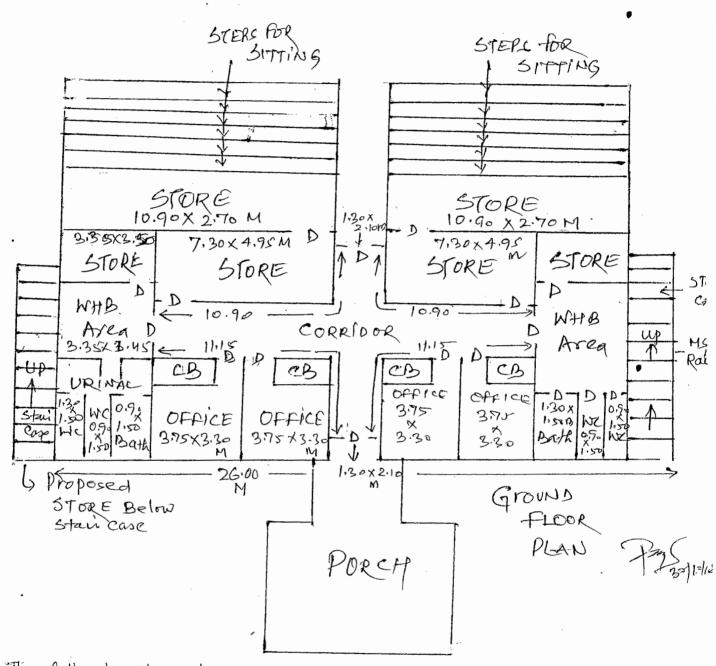
				,	,	
39	Providing and fixing C.P. brass stop cock				1	18.52
	(concealed) of standard design and of approved					
	make conforming to IS:8931.					
39.1	15 mm nominal bore	4	each	545.95	2183.8	18.52.1
40	Providing and fixing C.P. brass shower rose with 15				1	•
	or 20 mm inlet :					
40.1	100 mm diameter	4	each	71.65	286.6	18.22.1
41	Providing and fixing Chlorinated Polyvinyl Chloride				}	18.9
	(CPVC) pipes, having thermal stability for hot & cold					
	water supply including all CPVC plain & brass					
	threaded fittings This includes jointing of pipes					
	& fittings with one step CPVC solvent cement,				1	
	trenching, refilling & testing of joints complete as per				1	
	direction of Engineer in Charge.					
41.1	75 mm nominal inner dia Pipes	61	meter	1201.05	73264.05	18.9.8
41.2	100 mm nominal inner dia Pipes	61	meter	1618.10	98704.1	18.9.9
42	Providing and fixing C.P. brass long body bib cock of					18.51
	approved quality conforming to IS standards and					•
	weighing not less than 690 gms.					
42.1	15 mm nominal bore	4	each	492.56	1970.24	18.51.1
43	Providing and fixing gun metal gate valve with C.I.					18.17
	wheel of approved					
	quality (screwed end):					
43.1	25 mm nominal bore	6	each	428.20	2569.2	18.17.1
				Total	1144522.98	
.,,	Add Cost Index @ 3.92	2% on	Rs. 1144	522.98	44865.30	
			Total		1189388.28	_
	Add Labour cess @ 19	% on R	s. 118938	38.28	11893.88	
			Grand To		1201282.16	
			Say Rs.		1201300.00	

A.E. (Civil) 11/18

J.E. (Civil)-130/18

J.E. (Civil)-11

Prof. I/C (E & C)



The following it mus have been proposed:

- 1. Corpidor: Wall tites upto 1.20 M height (Glased Ceramic tiles)
- 2. Offices: Floor tiles (Vitribled Tiles)
- 3. Toilets ; ti) floor tiles (Anty skid ceramic glazed tiles).
 (ii) Wall tiles up to 2:00 M height (alazed ceramic tile)
 (iii) Utinal pots, NHB, plumbing works, and finishes
- 4. External! Finisher with weather painting and distanção Indernal -66-

5. STORE ! Wall with Brick work; Door and Firmishes

Subject: Proposal regarding to renovate and repair work in sports. section.

With the reference of above ofted subject, in this regard the Hor/file Director Padamann Dr. Satish Kumar visited sports section along with Dean Students Weitare, Prof. in-charge Physical Education, SAS officers and AE Civilian October 2, 2018.

After inspections of the whole area of sports section, the following observations soliced by Eurector which are to be improved for smooth function of about security as well as day today working as give holow.

- ile renovate and change the tites and fluor system in boto the toilets (maio & female).
- To denot sports and play building as per other buildings of Institute.
- To represent the appreciation condors, was with thesion to 4 ft.
- To repair and paint the front benches:
- 5. To change 6 hategen lights with LED light on sports complex building with specification of 4000 lex illustration. And also replace the flood lights which are not working and to change the old wires in sports complex building.
- b. Existing Mosaic Flooring to be replayed with vitrified ties.
- 7. Three Wooden working stations to be provided in the office of the sports sention. to accommodate more slaffin one room.
- Outside base floor has been sattled which needs raising up to outer lace of column along with main front wall-
- Store (comines) con which look very shappy condition the same required ou more). along with extra work.
- Existing wooder; participation of replaced with solid flush door for salety point of view and existing upors are not in proper condition.
- Early the requestion for construction of boundary wall was proposed to be. constructed. In addition to the above construction of boundary wall is not leasible. at present so it is further proposed that existing mess angels to be extended upto 2 ft height along with bracing and lightening of existing forcing wire and more. tending wire to be provide to readong the space between them.
- To construct the store room under the stail case towards the KU Walf. If is submitted for your further necessary action please.

間の質と例料。 Prof. I/C (Phy.Edu & Sports)

Continued from propage:

The defected cool estimate of Ro. 12,01300=00

(Twolve Lack one thousand three hundred
Ri. only) for renovation, refusishment
of toilets etc. and officer rooms including
internal / External Birishing of suports

Complex has been preparted is placed
in the file. The etense at SINO-05

and 07 ahe not preview.

In view of the above the detailed cost extraoli of Rs. 12,0,1300=00 is submitted for further trival perusal pl.

AEJerwil)

1977 48 ··

TE (CIVIL)

Profilehape (spals) for full ne plane
Appliebille 88 11. 2018

As the detail wet estemate ormant 12.0/3 n=0/ Losban prepared by estate section as per our requirements the some may be please be allowed by the competint outhority to allocate the final from approximate changeable had. So that the world may be exculted by white section as par mapping only.

Prof. 1/c/Phy. Edu. phorghanilles

but 3/c[E80

As per hi astrali received from AECU &
AE(E), total amount of the (1201300 + 40030) f12,49330/.
may plane be conclined from the affrontively heard to
excente the orbine work. Dairy No. 1359 Register DC

Registrar Office

Dt.....7-12/8

MINUTES OF THE MUSTING OF LISTAGE AFFAIRS COMMITTEE MELD ON 29.01 2019 and 7,02,2019 IN THE OFFICE OF DEAN (P&O) & CHAIRMAN. (FAC) AT NIT, KURUKSHETKA.

A meeting of Estate Afters Committee was held on 29 OF 2019 at 7:30 PM. and on 7.00~2018 at 1.1.50 AM in the office of Dean (P&D) to discuss the various. squesire ated to Estate Section

Following word present.

1	Prof. A. Swarup, Dean (F&D)	Chairman
2.	Prof. S.M. Gupta, Prof. PC(E&C)	Memper
: 4	Prof. K.K., Singh, Prof. CED	Member
~1	Or Arc Cattya, Faculty 50 (U&C)	Member
9	Dr. H.D. Chalak, Faculty I/C (\$&C)	Membér
6	Or Aeritapu Mahesh, Faculty I/C (EMXT)	Member
1	Shi SiNi Kaushik, A.E.(Civil)	Member & Cunvenes
Ó	Shi Astesh Choudhury, A F (Electi)	Special Invitee

Sottowing issues were oppossed and resolved as under

٦. To report the action taken on the minutes of the EAC meeting held on 05.09.2018,

The EAC holid line action taken on imputes of EAC meeting held on 00 09 2018. The report of action taken is enclosed.

To discuss the cost estimate for providing & fixing of vitafied floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments.

The twork wise detailed cost estimate of Rs 1,29,65,532/, for iproviding & fixing of vitriling near tiles. Halse coping, autrimium parts oring. kota kinne chemical/and renistance tiles and GT Shoot shade in the various departments, prepared by the Fistate Section was placed in the EAC moshing. Ane: detailed discussion in was resolved that the work of renovation of Spacis Complex for an amount of Rs. 12,49 230/- be included. in the allique paid work being similar hature of work. Tille Committee recommendos that the total cost estimate of Rs (1.42,15,660). (1.29,66,532)12,49,330) for approval and its beignt up before B&WC in its ensurig meeting

To discuss the cost estimate for the provision of internal & external finishing i.e. distempering 8 painting in the Boy's Bostels 1 to 10, Girls Hostel Álakhnanda Bháwan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chowla) and Staff Quarters

The cost cot mate for the provision for ficishing internal & external finishing. olidistompering Alipainting in the Buy's Hoste's 1 to 10. Girls Hoste's Alekhnanda Bhawan, Bhagirath Bhawan, Carivery Unawan & Kalpina Chawta) and Staff Quarters for an amount of Roll 11 07 24,6727, was discussed. The LAC resolved and recommonded that the case may be but up before B&VVC in its onsuling meeting for approval.

To discuss regarding/construction of extension of existing consider from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT, Kurukshetra.

The inabler was discrissed 8 it was resolved and recommenced that in a item be put up in the next B&WC for consideration & further approval of the competent authority. If it was also reserved that the comparise constructors as on similar to the existing componiting also proposed that a channel gold-Le provided at the end of corridor for safety purpose. Further, appropria provision may also be made for the lateral entry towards ENC & MBARM, A Black through norridor,

which he harden - - 69- if the the

Item No. 25.4 To consider and approve the cost estimate for the provision of internal & external finishing i.e. distempering & painting in the Boys Hostels 1 to 10, Girls Hostels 1 to 4 and Staff Quarters including BT/CT type houses.

It is apprised that the Chief Advisor to the Director informed vide letter no. CA/VKA/106 dated 08.05.2017 that the NBA team is likely to visit in the Institute in the month of September/October-2017 for accreditation of various programmes run by the Institute the following works are required to be executed such as:

"Renovation of existina toilets the Institute. in Addition/Alterations works in the Departments, False Ceiling in Class Rooms due to provision of air conditioning in the Institute, Floor and Wall tilings in the labs of various departments. Colour washing. distempering, painting, varnishing and polishing of furniture in the Hostels, Academic Buildings and residences etc. on priority basis."

The Building & Work Committee approved the Financial Annual Budget Estimate of Rs. 2,66,05,387/- for periodical & maintenance work as per CPWD norms in its 23rd meeting held on 03.06.2017 vide item no. 23.11. Subsequently the same was put up before the Finance Committee in its meeting 35th held on 05.06.2017 vide item No. 35.23. The decision of Finance Committee is reproduced below:

"In view of the decision taken under agenda item FC 35.A.4(c), the Finance Committee considered "future planned works (Annexure-3)" that are part of the 23rd meeting of the Building & Works Committee and decided that the work mentioned at Sr. No. 1 in the Annexure-3 is approved under agenda item FC.35 A4 (b); whereas the works mentioned at Sr. No. 2 & 3 are approved for a sum of Rs. 2.00 crores out of the total funds allocated.

Further, the Finance Committee declined to consider rest of the works in Annexure-3 that has been proposed by 23rd BWC meeting."

The above minutes of the Finance Committee has been approved by the Board of Governors in its 42nd meeting held on 27.06.2017.

In the light of the visit by NBA team in the Institute in the month of September/October-2017 for accreditation of various programmes run by the

Institute on this occasion the following works were required to be executed such as:

Renovation of existing toilets in the Institute, addition /alterations works in the Departments, False Ceiling in Class Rooms due to provision of air conditioning in the Institute, Floor and Wall tilings in the labs of various departments, Colour washing, distempering, painting, varnishing and polishing of furniture in the Hostels, Academic Buildings and residences etc. on priority basis.

Accordingly, Executive Engineer (Civil), CPWD Karnal was intimated vide letter No. CC/3492/585/4254 dated 04.09.2017 to submit the cost estimate for finishing work Internal & External i.e. distempering & painting in Academic / Instructional Buildings, Boys Hostels No. 7-10, Cauvery Bhawan (Girls Hostel), Sports Complex Shopping Complex, Faculty House, Guest House & Health Centre, CCN, Library Building, OAT, Electrical Sub-Station 1, 2 & 3 etc. Executive Engineer (Civil), COPWD, submitted the preliminary estimate of Rs. 4,35,29,786/- for the above said work vide letter No. CCC/23(3311)/W-III/2017-18/2407 dated 13.9.2017.

Further, the cost estimate submitted by CPWD was discussed in a meeting with the competent authority that on the occasion of Accreditation of the Institute by NBA team which is scheduled to be held in the last week of October-2017 the finishing work of Academic / Instructional building is urgently required on priority basis. After detailed discussion the Hon'ble Director accorded the Administrative Approval & Expenditure Sanctioned for an amount of Rs.1,08,17,854/- to carry out the Internal & External finishing work i.e. distempering & painting in Academic /Instructional Buildings only on priority basis.

The A/A & E/S for Internal & External finishing work i.e. distempering & painting in Academic /Instructional Buildings was conveyed to Executive Engineer (Civil), CPWD for execution of above said works vide letter No. CC/3492/580/4566 dated 21.09.2017. The CPWD completed the work for an amount of Rs. 98,96,492/- in the above said buildings on the occasion of Accreditation of the Institute.

Further, the matter regarding Internal/External finishing work in Hostels and Residences was discussed in the Estate Affair Committee meeting held on

06.09.2018. The EAC recommended that the Estate Section will work out the comprehensive requirement of Internal/External finishing in the Hostels, Instructional Buildings and Staff Quarters. The recommendations of EAC in this regard, are reproduced below:

"The cost estimate received from the Superintending Engineer (Civil), CPWD vide letter no.CCC/23/W-III/2017-18/2407 dated 13.09.2017 was discussed in the Estate Affairs Committee meeting and resolved that the external finishing/painting of Instructional Buildings has already been completed during the visit of NBA. Further during the discussion regarding external finishing/painting work in BT,CT type houses, all other residences and hostels. It was resolved that the work will be carried out in a phase manner annually as per the availability of funds for the financial year upto five years consecutively under the respective Chargeable Head "Maintenance of Staff Quarters". The same process will continue in alternative five years. Further, it was also finalized that the Estate Section will work out the comprehensive requirement of external finishing/painting in Hostels, Instructional Buildings and Staff Quarters."

In the light of the above recommendations, the cost estimate of comprehensive requirement for the provision of internal and external finishing/painting work in Boys Hostels (1-10), Girls Hostels (1-4) and Staff Quarters including BT/CT type houses in the Institute has been work out for an amount of Rs. 11,07,24,672/-. The detail is given as under in tabular form:

		Boys H	ostel	
Sr.	Description	Cost Estimate for	Cost Estimate for	Total Estimated cost
No.		Internal finishing	External finishing	for Internal and
		(Amount in Rs.)	(Amount in Rs.)	External finishing
				(Amount in Rs.)
1.	Hostel No1	24,46,107.31	5,32,278.14	29,78,385.45
2.	Hostel No2	24,65,044.29	5,30,255.62	29,95,299.91
3.	Hostel No3	24,67,872.31	6,47,868.65	31,15,740.96
4.	Hostel No4	40,19,225.75	5,20,415.14	45,39,640.89
5.	Hostel No5	40,19,226.36	5,20,415.14	45,39,641.50
6.	Hostel No6	30,67,883.01	5,90,765.08	36,58,648.09
7.	Hostel No7	37,36,755.17	42,74,927.88	80,11,683.05
8.	Hostel No8	36,52,187.42	43,79,755.89	80,31,943.31
9.	Hostel No9	36,83,815.38	44,90,812.47	81,74,627.85
10.	Hostel No10	1,12,18,502.74	17,78,261.74	1,29,96,764.48
	Total	(A) 4,07,76,620.00	(B) 1,82,65,756.00	5,90,42,375.00

	Girls Hostel								
Sr. No.	Description	Interr	Estimate for Cost Estimate for Trnal finishing External finishing count in Rs.)		Total Estimated cost for Internal and External finishing (Amount in Rs.)				
1.	Alaknanda Bhawan		23,44,887.08 3,55,450.21		23,44,887.08		27,00,337.29		
2.	Bhagrathi Bhawan (on priority)		39,34,169.29		78,637.46	40,12,806.75			
3.	Cauvary Bhawan		23,38,904.66		15,82,217.19	39,21,121.85			
4.	Kalpana Chawla		45,73,148.99		31,31,112.10	77,04,261.09			
	Total	(C) 1,	31,91,110.00	(D) 51,47,417.00		1,83,38,526.98			
Staff Quarters									
Sr. No	· '		Cost Estimate for Internal finishing (Amount in Rs.)		Cost Estimate for External finishing (Amount in Rs.)	Total Estimated cost for Internal and External finishing (Amount in Rs.)			
1.	Distempering in lobby, kitchen, store enamel painting on windows & grills residential building BT & CT Type Hous	doors, etc. in (except	(E) 1,55,30,61	4.00	(F) 1,41,80,172.00	2,97,10,786.00			
2.	Distempering in lobby, kitchen, store enamel painting on windows & grills residential building (In BT & CT Type He	rooms, e, toilet doors, etc. in	(G) 20,57,962	2.00	(H) 15,75,021.00	36,32,983.00			
	Grand Total of anne *(attached with the	exure A-		+G+H)	11,07,24,672.00				

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 11,07,24,672/- for the provision of internal and external finishing/ painting work in Boys Hostels (1-10), Girls Hostels (1-4) and Staff Quarters including BT/CT type houses in the Institute.

OFFICE OF CHIEF ADVISOR TO DIRECTOR NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA **KURUKSHETRA**

No: CA / VKA / 106

Dated: 08.05.2017

NBA team is likely to visit our campus in the month of September/October, 2017 for accreditation of various programmes run by the Institute. Therefore, the Institute has to gear up for the coming accreditation process. The Dean (Estate) is requested to take the following jobs on priority basis:

- 1. Colour wash / distempering of whole Institute/campus including hostels, residences, sports stadium, swimming pool, shopping complex, LHC, SAC, etc.
- 2. Checking of wash rooms of the Institute for any repair/replacement.
- 3. Painting/varnishing/polishing of grills/furniture.
- 4. Maintenance of roads and lawns of the Institute.
- 5. Ensure proper functioning/up keep of Senate Hall fountains & reflection pool fountains.
- 6. General cleanliness of the whole campus.
- 7. Instructing the officials of bank/post office to paint/improve their sign boards. Similarly such instructions may be passed on to owners of campus canteen and shops.
- 8. Maintenance of electrical structures and appliances, Air-conditioning of labs and lecture halls.

Dean (Estate)

Sr. Secretary to Director for kind information of the Director.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

Minutes of the 23rd meeting of Building & Works Committee, National Institute ^fof Technology, Kurukshetra held on 03rd June, 2017 at 11.00 am in the Board Room of Golden Jubilee Administrative Building of NIT, Kurukshetra.

The following were present:

1. Dr. Satish Kumar Chairman
Director
National Institute of Technology
Kurukshetra

2. Shri K. N. Rai Member
Former Chief Executive & Advisor
Ministry of Defense (DRDO)
C-4, 4112, Vasant Kunj
New Delhi

3. Prof. D.K. Soni Member
Dean (Planning & Development)
National Institute of Technology
Kurukshetra

4. Er. R. K. Sao Member
Superintending Engineer (Electrical)
Chandigarh Electrical Central Circle, CPWD
Kendnya Sadan, Sector-9A
Chandigarh

5 Er. Mahender Pal Singh Member
Superintending Engineer (Civil)
Chandigarh Central Circle
CPWD, 2nd Floor, Kendriya Sadan
Sector-9A
Chandigarh

6. Prof. Arun Goel Special Invitee
Dean (Estate)
National Institute of Technology
Kurukshetra

7. Prof. S. M. Gupta Special Invitee
Prof-in-Charge (E&C)
National Institute of Technology
Kurukshetra

DW

23.9 To consider and approve the Cost Estimate for the provision of shed for parking only for four wheelers in the existing parking near NIT Market Complex.

The Building & Works Committee deliberated on the matter and approved the cost estimated of Rs. 44,69,700/- for the provision of shed for parking for four wheelers only in the existing parking near NIT Market Complex.

23.10 To consider and recommend regarding delegation of powers to Director & Chairman, Building & Works Committee for original / minor /repairs works.

The Building & Works Committee deliberated on the matter and recommended to Board of Governors through Finance Committee to authorise the Director & Chairman, B&WC to exercise a financial power up to to Rs. 1.00 crores in respect of all works as mentioned in rule 130 of GFR 2017.

23.11 To consider and approve the financial budget estimate for repairs/maintenance work of Staff Quarters, Instructional/Academic Buildings, Hostel Buildings, Water supply & Disposal, Roads & Storm Water Drains etc. for the year 2017-18 at NIT, Kurukshetra.

The Building & Works Committee deliberated on the matter and approved the financial budget estimate of Rs. 2.66 crore for periodical & maintenance work as per CPWD norms.

The meeting ended with a vote of thanks to the Chair.

All the above mentioned agenda items stand confirmed by all the members.

Registrar-I/C &Member-Secretary Building & Works Committee, NIT, Kurukshetra

Authenticated

Director & Chairman, Building & Works Committee NIT, Kurukshetra

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

No. DR (Acc.)/35th FC/2017/ 13/9

Dated: 2/8/11

FC 35.23 To approve the minutes of the 23rd meeting of the Building & Works Committee of National Institute of Technology, Kurukshetra held on 03.06.2017

The Finance Committee in its 35th meeting held on 05th June, 2017 has decided as under:

"In view of the decision taken under agenda item FC 35.A.4(c), the Finance Committee considered "future planned works (*Annexure-3*)" that are part of the 23rd meeting of the Building & Works Committee and decided that the work mentioned at Sr. No. 1 in the *Annexure-3* is approved under agenda item FC.35 A4 (b); whereas the works mentioned at Sr. No. 2 & 3 are approved for a sum of Rs.2.00 crores out of the total funds allocated.

Further, the Finance Committee declined to consider rest of the works in *Annexure-3* that has been proposed by 23rd BWC meeting."

The above minutes of the Finance Committee has been approved by the Board of Governors in its 42nd meeting held on 27.06.2017.

This is for reference, record and further necessary action in the matter.

Encl: Agenda item

Deputy Registrar (Accounts)

Dean (Estate)

Copy to:

1. Professor-in-Charge, Estate & Constructions

2. Deputy Registrar (Stores)

3. Sr. Secretary to Registrar

PIT (ERC), FIIC (EMPT)

munger 1.08.2017

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-77-

FUTURE WORKS (PRIORITY WISE)

Annexure-3

S. S	Name of Work	(Rs. In lacs.)	Funds required during Funds required during the the	the year 2018-19
<u>.</u>		,	year 2017-18 (Rs. In lacs)	(Rs. In lacs.)
τ	Supply and installatin of Solarizer Solar water heating systems accessories at NITK	32.99	32.99	
7	Financal budget estimate for repairs/maintenance work of staff quarters instructional/academic buildings, hostel buildings, water supply& disposal, roads & storm water drains etc. for the year 2017-18 at NIT, Kurukshetra.	266.05	266.05	
m	Construction of Badminton hall in sports Complex at NIT, Kurukshetra.	77.20	77.20	
4	Providing Aluminum with pre-laminated board both side decorative at all floors (ground floor, first floor & second floor) in newly constructed 3 storey bearer barrack comprising of 2 blocks to accommodate 96 bearers	32.55	32.55	. '
ς.	Finishing floor with tiles in the common room, dinning hall, warden office and MMCA office in the old boys hostel no. (1-6) and girls hostel no1 at NITK	31.01	31.01	,
ဖ	Construction of shed for covering the sports complex stairs at NIT, Kurukshetra.	66.66	1	99.99
	Provision of access to golden jubilee administrative building by providing a gate & parking shed for two wheelers along the in-side boundary wall towards west	27.60		27.60
ω	Provision of shed for parking only for four wheelers in the existing parking near NIT Market complex.	44.70	•	. 44.70
	Total	612.09	439.80	172.29

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Dated: 04.09.2017

To

The Executive Engineer (Civil)

CPWD, NDRI Campus (Near State Bank of India)

Karnal-132001

Subject: -

Submitting the cost estimate of finishing work internal & external i.e. distempering & painting in the Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra.

With reference to letter No. CANKA/106 dated 08.05.2017 received from Chief Advisor of the Hon'ble Director, accreditation for various B. Tech.,/M.Tech. programs running in the Institute is going to be held in the second week of October, 2017. In view of this visit, a meeting was held on 01.09.2017 under the Chairmanship of the Hon'ble Director along with Registrar in the presence of CPWD officers/ officials and Estate officers/official. It was decided in the meeting that the CPWD will execute the work as cited in the subject above.

In this context, you are kindly requested to submit the cost estimate of finishing work internal & external i.e. distempering & painting in the Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3, etc. at NIT, Kurukshetra.

This may please be treated as most urgent.

mught 4.09.2017 Dean (Estate)

Copy to:

- A.E. (Civil), NITK 1.
- 2. Prof. I/C (E&C)
- 3. D.R. (Acs.)
- Dean (P&D) for kind information please. 4.
- Chief Advisor to Director for kind information please.
- SS to Registrar for kind information of the Registrar 6.
- SS to Director for kind information of the Hon'ble Director
- A.E. (Civil), CPWD, Camp office, NITK
- Superintending Engineer (Civil), CPWD Chandigarh Central Circle-I, Kendriya Sadan, Sector-9A, Chandigarh for kind information & necessary action please
- Chief Engineer (NZ-I), CPWD, Kendra Sadan, Sector-9A, Chandigarh for kind information and necessary action please
- Additional Director General (NR-I), CPWD, Kendriya Sadan, Sector-9A, Chandigarh for kind information and necessary action please



्र भारत सरकार केन्द्रीय लोक निर्माण विभाग

कार्यालय अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि., केन्द्रीय सदन, दूसरा तल, सैक्टर 9-ए, चण्डीगढ़-160009

संख्याः च.के.परि./23(3311)/W-III/2017-18/ 2407

दिनांक: 13/9/13

FJC (EMET)

The Dean(Estate),

National Institute of Technology

Kurukshetra, (Haryana).

Do hu need

विषयः-

Name of Work:- Finishing work internal & external i.e. distempering & painting in the Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra.

सन्दर्भः-

Your Office letter No. CC/3492/585/4254 dated 04.09.2017.

महोदय,

उपरोक्त कार्य का 4,35,29,766/- रूपये राशि का प्रारम्भिक अनुमान दो प्रतियों में आपके कार्यालय के समर्थ अधिकारी की अनुमोदन व व्यय स्वीकृति के लिए संलग्न किया जाता है।आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाइ हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष का नाम (हैड आफ अकाउन्ट) भी उल्लेख करने की कृपा करें।

संलग्नकः- प्रारम्भिक अनुमान (दो प्रतियों में)

भेशिक्षण अभियन्ता चण्डीगढ़ केन्द्रीय परिमण्डल, के,लो.नि.वि.,चण्डीगढ़।

प्रतिलिपि:--

 अधीक्षण अभियंता (वै.), चण्डीगढ केन्द्रीय वैद्युत परिमंडल, के.लो.नि.वि., चण्डीगढ को सूचनार्थ प्रेषित है।

 कार्यपालक अभियंता, करनाल केन्द्रीय मंडल, के.लो.नि.वि., करनाल, हरियाणा को अनुमान की एक प्रति सहित।

3. कार्यपालक अभियंता (वै.), करनाल केन्द्रीय वैद्युत मंडल, के.लो.नि.वि., करनाल, हरियाणा को सूचनार्थ प्रेषित है।

Archied to be true cogni,

pur though E-mail.

How cogn is keing Sent though Post

अधीक्षण अभियन्ता

-80

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana

Division: Karnal Central Division

Branch: B & R

()

NAME OF WORK:- Finishing work internal & external i.e. distempering & painting in the

Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT,

Kurukshetra.

MAJOR HEAD MINOR HEAD DETAIL HEAD

This Preliminary estimate framed by Er. Charanjit Pasrija, Executive Engineer, Karnal Central Division, CPWD, Karnal and further processed by Er. Monica Mudhol, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh for Rs.4,35,29,766/- I/c 3% contingencies.

REPORT

History:

This preliminary estimate amounting to Rs.4,35,29,766/- i/c 3% contingencies has been framed to cover up the probable cost for the above mentioned work for accord of A/A & E/S by the competent authority. The requisition for the above said work has been received vide letter No. CC/3492/585/4254 Dated 04.09.2017 As per requisition, the accreditation programme for the various running courses like B.Tech/ M.Tech is to be held in the second week of October 2017. The work is of very urgent in nature by the compressed time frame, point of view. Hence this estimate.

Design & Scope:

The following provisions have been made in this estimate: -

- Acrylic distempering in the internal area.
- 2. Premium acrylic smooth exterior paint with silicon additives in the external area.
- Synthetic enamel painting on the wood and steel work.

Specification:

CPWD Specification 2009 Vol. 1 & II.

T & P:

Shall be arranged by the contractor.

WC Establishment:

Shall be met out of contingencies.

Land:

Available.

Rate:

DSR - 2016 with up to date correction slip.

Method:

Through contractor after call of tender.

Time:

3 Months (After award of work)

Cost:

Rs. 4,35,29,766/- (i/c 3% contingencies)

Assistant Engineer (P) -1, Chandigarh Central Circle,

CPWD, Karnal

Executive Engineer (P), Chandigarh Central Circle,

CPWD, Karnal

Abstract of Cost-Preliminary Estimate

emic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Solex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, Cary building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra.

	Name of Work	Amount Civil Work	Remar
h	FOR THE FINISHING WORK OF VARIOUS		Amount a
1	INSTITUTIONAL BUILDINGS AT NIT KURUKSHETRA	10398783.00	Annexum
,	FOR THE FINISHING WORK OF VARIOUS HOSTEL	,	
•	BUILDINGS AND CT/BT HOUSES AT NIT KURUKSHETRA		Amount a
1		31444691.00	Annexu
Ţ	Total	41843474.00	
4	ADD CONTINGENCIES @3%	1255304.00	
F	Total	43098778.00	
L	ADD LABOUR CESS @ 1%	430988.00	
ŀ	GRAND TOTAL	43529766.00	
+		-nn	
t	WW.	Um	
V	Assistant Engineer (P)-I,	Executive Engineer (P),	
k	Chandigarh Central Circle,	Chandigarh Central Circ	cie,
ķ	CPWD, Chandigarh	CPWD, Chandigarh	
	This Preliminary Estimate is hereby submitted to client department	to getting A/A & E/S of t	the compe
1		P3-85	
1			
ļ		Superintending Engine	
4		Chandigarh Central Clre CPWD, Chandigarh	ie,

Annexure-A

Original Estimate

Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Health Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra.

Sr. No.	Description	Qty	Unit	Rate	Amount	DSR No
1	FINISHING				-A	
1.1	Applying one coat of water thinnable cement primer of					
	approved brand and manufacture on wall surface :					13.4
1.1.1	Water thinnable cement primer	16139.6	sqm	36.95	596358.00	13. 43
1.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
121	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming cost of exterior primer applied @ 2.20 kg/10 sqm)		sqm	96,80	4690434.00	13.47
1.3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		sgm	87:35	174700.00	13.5
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.		oqin .	67,50	17,4700.00	13.84
1.4.1	One coat	64558.60	sqm	30.90	1994861.00	13.00
1.4.2	Two coats	16139.60	sqm	49.65	801331.00	13 AL
2	REPAIRS TO BUILDINGS			 		1
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, rating out joints and preparing and plastering the surface of the walls complete, including disposal of rathfish to the damping ground, all complete as per directions of Engineer In-Charge.					**
	With cement mortar 1:4 (1 cement : 4 ceesse seed)	484.55		274.80	133154.00	141
2.2	Removing white or colour wash by scaling and sand papering and preparing the surface small including necessary repairs to scratches etc. campaign	48454.9	sqm	8.35	404598.00	544
	Removing dry or oil bound distance. cement paint and the like by scrapping and preparing the surface smooth including repairs to scratches etc. complete.	16139.6	sqm	10.80	174308.00	¥4.4
		70.00.0	odili	10.00	11-4000.00	
- 1	Painting with synthetic enamed paint of apparent bound and manufacture of required colour to give an even shade:	,				14.5
	and manufacture of required cultur to give an even	20210.2	sqm	51.30	1036783.00	14.54
	and manufacture of required collect to give an even shade:	20210.2		51.30 and Total	1036783.00 10006527.00	
	and manufacture of required collect to give an even shade:		Gra	nd Total		
	and manufacture of required cultur to give an aven shade: One or more coats on old work		Gra stal 102,74	nd Total	10006527.00	
251	and manufacture of required calcut to give an avera shade: One or more coats on old work Add Coat holia: (\$5.525 (De	Estante To	Gradal 102,74	nd Total ,442.00) and Total	100065 27.00 392256.00	14.54
251	and manufacture of required calcut to give an aven- shade: One or more coats on old work Add Coat below (\$3.375 (De Assistant Engineer (P)-L	Estante To	Gra stal 102,74	nd Total (442.00) and Total (P),	100065 27.00 392256.00	14.54

Annexure-

Original Estimate

Name of Work: Finishing work internal & external i.e. distempering & painting in the Academic/instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), Guest House & Healt Centre, CCN, Library building, OAT, Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra.

Sr. No.	Description	Qty	Ųnit	Rate	Amount	DSR N
1	FINISHING					
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					13.
1.1.1	Water thinnable cement primer	46325.80	sqm	36.95	1711738.00	13.43
	Frishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:		- Ja:			13.
121	New work (Two or more coats applied @ 1.43 ltr/10 som over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)		sgm	96,80	14535585.00	
1.3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		sqm	87.35	17470.00	13.0
1.4	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.4.1	One coat	185303.00	sqm	30.90	5725863.00	13.81
1.4.2	Two coats.	46325.80	sqm	49.65	2300076.00	13.81
2	REPAIRS TO BUILDINGS					
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubblish to the dumping ground, all complete as per directions of Engineer-Incharge.					
2.1.1	Win cement mortar 1:4 (1 cement : 4 coarse sand)	200.00	sqm	274.80	54960.00	14.1
2.2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	150161.00	sqm	8.35	1253844.00	14.4
	Removing dry or oil bound distemper, water proofing coment paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.		Sym	0.55		
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		sqm	10.80	500319.00	14.4
251	One or more coats on old work	81066.30	sqm	51.30	4158701.00	14.54
			Gra	nd Total	30258556.00	1424
	Add Cost Index @3.92% (O	n Estimate To	tal 102,74	,442.00)	1186135.00	
			Gra	ind Total	31444691.00	
	777	JA.	/			
	Assistant Engineer (P)-I,	Executive E				
	Chandigarh Central Circle,	Chandigarh	~	ircle,		
	CPWD, Chandigarh	CPWD, Char	ndigarh	i		

Subject:

Administrative Approval and Expenditure Sanction for Internal & external finishing work i.e distempering & painting in the Academic/Instructional buildings, Sports Complex, Shopping Complex, Teacher's Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical Sub Station No. 1,2 & 3 etc. at NIT, Kurukshetra

A letter no. CA/VKA/106 dated 8.5.2017 has been received from Chief Advisor to the Director regarding accreditation of various programmes run by the Institute, in which it is stated that an NBA team is likely to visit the Institute in the month of September/October 2017. Accordingly, a cost estimate on finishing work (internal & external) including repair/maintenance work of Institute, Staff and Hostel Sectors for amounting to Rs. 2.66 crores was prepared and placed before the B&WC in its 23rd meeting held on 3rd June 2017 vide item No. 23.11 and the same was approved by the B&WC. Subsequently the minutes of 23rd BWC meeting were approved by the Finance Committee in its 35th meeting held on 5th June, 2017 vide item No. 35.23. However, the Finance Committee approved a sum of Rs. 2.00 crore only for the two works at Sr. No. 2 & 3 (Annexure 3) out of the total funds allocated and the same was approved by the Board of Governors in its 42nd meeting held on 27.6.2017.

Accordingly, Executive Engineer (Civil), CPWD was informed vide letter No. CC/3492/585/4254 dated 4.9.2017 for submitting the cost estimate of Internal & external finishing work i.e. Distempering & Painting in the Academic/Instructional buildings, Boys Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Teachers Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical Sub Station No. 1,2 & 3 etc. at NIT, Kurukshetra.

In response to our above referred letter dated 4.09.2017, the CPWD has submitted a cost estimate of Rs. 4,35,29, 766/- vide letter No-CCC /23(3311)/ W-III/2017-18/2407 dated 13.09.2017 in annexure-A & Annexure-B for the above mentioned works.

It is pertinent to mention here that the Annexure-A includes the work of internal & external finishing in the Academic/Instructional buildings, Sports Complex, Shopping Complex, Teachers Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical Sub Station No. 1,2 & 3 etc. at NIT, Kurukshetra for amounting to Rs. 1,08,17,854/- (which includes contingencies @ 3% and labour cess @ 1%).

The Annexure-B includes the work of internal & external finishing in the Boys Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), & Staff Quarters' (BT/CT type houses) etc. at NIT, Kurukshetra for amounting to Rs. 3,27,11,912/-(which includes contingencies @ 3% and labour cess @ 1%).

Further, the cost estimate submitted by CPWD was discussed in a meeting with Hon'ble Director in the presence of Registrar, Dean (Estate), Professor I/C (E&C) and AE(Civil) on 19.09.2017. In the light of accreditation of the Institute by NBA team which is to be held in the last week of October, 2017. Hence on this occasion the finishing work of Academic/Instructional buildings is urgently required on priority basis. During the meeting, Hon'ble Director was apprised about the FC and BOG decision which states that an amount of Rs. 2.00 crore has been approved for executing the work of Internal & external finishing including annual repair/maintenance (Rs. 50-60 lacs approximately). Due to financial limits the Institute is in the position of carrying out the work of internal and external finishing i.e distempering and painting only in the Instructional building as cited in the subject above which is equal to Rs. 1,08,17,854/-.

In view of the above, if agreed, the Hon'ble Director, may accord necessary administrative approval and expenditure sanction for an amount of Rs. 1,08,17,854/~ to carry out the internal and external finishing work i.e. distempering and painting in /Instructional Buildings only on priority basis, so that the same may be conveyed to Executive Engineer (Civil), CPWD, Karnal for further necessary action in this regard.

A. E./(Civil) 2019/17

Prof. 1/C (E&C) St. 10 3.20 17

D.R. (Aceounts) (Aceounts)

Fellow -86-

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Dated 21.09.2017

То

The Executive Engineer (Civil) CPWD, Karnal Central Division NDRI Campus (Near State Bank of India) Karnal-132001

Subject:

 Administrative Approval & Expenditure Sanction as per Annexure-A for Internal & External finishing work i.e. distempering & painting in the Academic/Instructional buildings, Sports Complex, Shopping Complex, Teacher's Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra

Reference:

Letter No. CCC/23(3311)/W-III/2017-18/2407 dated 13.09.2017

In view of the above referred letter under reference the administrative approval and expenditure sanction for the work as cited in the subject is hereby conveyed as under:

Sr.	Name of Work	Revised Cost Estimate
No.		(In Rs.)
1	Internal & External finishing work i.e. distempering & painting in the Academic/Instructional buildings, Sports Complex, Shopping Complex, Teacher's Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical Sub-Station No. 1, 2 & 3 etc. at NIT, Kurukshetra As per Annexure-A	

This is being issued after approval of the competent authority.

Dean (Estate)

Copy to:

- 1. A.E. (Civil), NITK-
- 2. Prof. I/C (E&C)
- 3. D.R. (Accounts)
- 4. Dean (P&D)
- 5. SS to Registrar for kind information of the Registrar
- 6. SS to Director for kind information of the Hon'ble Director
- 7. Superintending Engineer (Civil), CPWD Chandigarh Central Circle-I, Kendriya Sadan, Sector-9A, Chandigarh.
- 8. Chief Engineer (NZ-I), CPWD, Kendra Sadan, Sector-9A, Chandigarh
- Additional Director General (NR-I), CPWD, Kendriya Sadan, Sector-9A. 9. Chandigarh

in ISAC resolved that the Chief dvarden Boys & Clifs may be intimated that they in execute those works at their dwn fever from nestel (undulas accommittee Rinles test getting. Rise approval. Iron the competent wutnerity. Any technique (wheels stated at required, will be provided by Estate Section. Regarding couldn't for the same will be pequed after consultation with the Estate Section.

 the discuss the requests received from the G-Type residents —regarding to inistruct the toilets near G-Type Market.

Type residents one was from the G. Type residents on dated 30.01.50n8 regarding to construct the Totlers mean G-Type Market the represent was discussion in the Estate of the Committee meeting. The EAC resolved and recommended that the Totlers was the Type Market may the constructed by the contracted subject to obtain an olds taking from the shippkeepers rear G-type incuses regarding. The clarification of the follers and someoniding stead of the market, at their own expenses.

াও discuss the request received from Vikram Singh, House No-7 on dated । : : 34 2018 - regarding construction of a side countrary wall (connecting QA-০ - চহা-এ

This dem was dilepped.

 4 discussia request renerved from Prof. Saraswati Salia, Prof. PC (Structura) (Evacement ab)

The Topicust moderner from Prof. Sarahwati Selia, Prof. (C) Sarahust. Dynamics this vide No. (CH,)%018/210 dated 6.2.2018 was discussed in the Estate Alldius Committee Meeting. The EAC resolved that a letter has a ready been sont in this regard to HOO. Give through Registral that the project will be executed under 186A and the Civil Progressing Department thay process the case ascentingly with them into details.

8 $\frac{1}{2}$ to discuss the cost estimate/for the provision of an conditioning in the $\frac{1}{2}$ 2 dos. Lecture Hall complex

The cust estimate for the provision of an conditioning in the 12 hoir Lecture Hall ontotox was received from Superniterating Engineer (Efect) vide totler No. 13.100)/CCED/2016 17/95 dated 10.00 2017 was discussed in the EAC meeting right was resolved that the first phase of installation of ACs in the firstitutional treathes proceed been completed. Further the Register has besided that the solution regarding the installation of ACs in 2rd phase, may be apprised alongwith complete case and related documents.

To discuss the provision for booking internal & external work its costemporing 8 painting in the Poy's Hestels 7 to 10, B1/CT type houses & foregrap cainting only in Cauvery Shawari 8 residences of the Institute at EU. Kurukshietra

The cost estimate received from the Superintending Engineer (Civil), CPVVD vide when No. CCC/25/yr III/2017-19/7407 dated 13 05 2017, was discussed in the case Affairs Committee meeting and resolved that the external firshing/ periodic in manual road Buildings have arrandy treen completed during the visit of NBA in ther coming the discussion regarding external firshing/painting work in 19T, CT is not sen, at other resolucies, and hostins, in was resolved that the work will be carried out in a phase manner controlly as per the availability of funds for the triangular upon two years connectively under the respective Chargonald Head Mannerance of Staff Quarters. The same process will continue in alternative five time. Further, it was also finalized that his Edute Section will work out the cooperations and Staff Quarters of external localizing to floatids, instructional charles and Staff Quarters.

10 e discuss the nest estimate for the construction of extension of existing conder from New Workshop Bolleting to 12 has Lecture Hall Complete and JEA/MCA building at NIT, Kuruksov tra.

objects estimate the tree construction of extension of extension of extending condex from New lockshop Building to 12 and Lock to their Complex and MetA/MCA building at the 1 AC discussed that before properties from the matter operation of postspaces in the endangline. Buildings are may be checked out by their endangline and consistent on the endangline Buildings are may be checked out by their endangline and responding to the endangline and their endanglines are consistent of the EAC and their endanglines are consistent of the EAC and their endanglines are consistent of the extension of the endanglines are consistent on the end of the end o

EAC 6.9.18



Comment & Charles

Subject: Cast emmate of comprehensive requirement for the previous of interval and external finishing/pointing in postels and staff quarters in the list tate.

It is pertinent to merchant or that the world of internal/External Imisting is proving tend distempering lies at every been consist as, in the fastroom and Brooming doming to. Blick sixt is the resolute as the year 2017. Cutbot, the matter regioning terminal/fish that limiting work in Harrels and Sesubscreen was a screened on the instale Affice Communities are the control of 2018. The FAC recommended that the fact of Section will work on the remainship work may be open all the matters of the Shiring to the Theston, the training factors of the Shiring and the Theston, the region would be seen that in the control of the section of EAC in this inquiry are internal below.

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In the light of the viscos recommendations discuss that, to be a completive average material teacher are expressed and external localization of a work in the viscosite of the viscosite of \$1.35. \$1.

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Co. es. late for internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 1 to 10 at NIT, Kurukshetra

.No	· Item	Quantity	Unit	Rate	Amount	Dsr. N
1	Finishing					
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :		-		·	13.
1.1.1	Water thinnable cement primer	85,984.54	sqm	36.95	31,77,128.75	13.43
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1,43,842.30	sqm	87.35	1,25.64,624.91	13.
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.
1.3.1	Two coats	3,17,475.57	sqm	49.65	1,57,62,662.05	13.8
2	Repairs to Buildings					
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	92,914.19	sqnı	8.35	7,75,833.49	14.
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	57,857.76	sqm	10.8	6,24,863.81	14
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		,			14.
2.3.1	One or more coats on old work	1,15,884.19	sqm	51.30	59.44,858.95	14.5
		TOTAL			3,88,49,971.95	
	Add Cost index @ 3.92	1.95 Total)	15,22,918.90			
				Total	4,03,72,890.85	
	Add Labour Cess @ 1	% (on Estimate	40372890).85 Total)	4,03,728.91	
				rand Total ₹	4,07,76,619.76	
				Sav ₹	4,07,76,619.76	

The above estimate is based on (DSR 2016 + Cost index)

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A.E(Civil)

King 191119 J.E. (Civil)

Cor est ate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 1 at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
a 1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					13.43
1,1,1	Water thinnable cement primer	11,480.86	sqm	36.95	4,24,217.78	13.43.1
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	11,480.86	sqm	87.35	10,02,853.12	13.80
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.			·		13.81
1.3.2	Two coats	11,480.86	sqnı	49.65	5,70,024.70	13.81.2
2	Repairs to Buildings				•	14
2.1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	11,480.86	sqm	8.35	95,865.18	14.43
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.2.1	One or more coats on old work	4,631.01	sqm	51.30	2,37,570.81	14.54.1
		TOTAL			23,30,531.59	
	Add Cost index @ 3.92	% (on Estima	te 233053	1.59 Total)	91,356.84	
				. Total	24,21,888.43	
	Add Labour Cess @ 1%	(on Estimate	2421888	.43 Total)	24,218.88	
			Gı	and Total ₹	24,46,107.31	1
				Say ₹	24,46,107.31	

The above estimate is based on (DSR 2016 + Cost index).

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A-E (Civil)

Rojething J. T. (C. FILL)

Cc es ate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 2 at NIT, Kurukshetra

S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. N
1	Finishing					
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					. 13.
1.1.1	Water thinnable cement primer	11,579.83	sqm	36.95	4.27,874.72	13.4
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	11,579.83	sqm	87.35	10,11,498.15	13.
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13
1.3.1	Two coats	11,579.83	sqm	49.65	5,74,938.56	13.8
2	Repairs to Buildings					
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	11,579.83	sqm	8.35	96,691.58	14
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14
2.2.1	One or more coats on old work	4,631.01	sqm	51.30	2,37,570.81	14.5
, i		TOTAL			23,48,573.82	
	Add Cost index @ 3.92	% (on Estima	te 234857	3.82 Total)	92,064.09	
				Total	24,40,637.92	
	Add Labour Cess @ 1%	(on Estimate	2440637	.92 Total)	24,406.38	
			G	rand Total ₹	24,65,044.29	
				Say ₹	24,65,044.29	

The above estimate is based on (DSR 2016 + Cost index).

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A E((NIL)

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Cos ast. ate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 3 at NIT, Kurukshetra

.No	ltem	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	·				13.4
1.1.1	Water thinnable cement primer	11,594.61	sqm	36.95	4,28,420.84	13.43.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	11,594.61	sqm	87.35	• 10,12,789.18	13.80
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.3.2	Two coats	11,594.61	sqm	49.65	5,75,672.39	13.81.
2	Repairs to Buildings					1
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	11,594.61	· sqm	8.35	96,814.99	14.43
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.2.1	One or more coats on old work	4,631.01	sqm	51.30	2,37,570.81	14.54.1
•		TOTAL			23,51,268.22	
	Add Cost index @ 3.92	92,169.71				
		24,43,437.93				
	Add Labour Cess @ 1% (on Estimate 2443437.93 Total)					
•		24,67,872.31				
		24,67,872.31				

The above estimate is based on (DSR 2016 + Cost index).

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Pro-11/1 (F.11)

A.F (Civil)

J. H. Civil)

Cost as nate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 4 at NIT, Kurukshetra

.No	ltem	Quantity	Unit	Rate	Amount	Dsr. N		
		Quantity	OTHE	Rate	Amount			
	Finishing							
	Applying one coat of water thinnable cement primer of approved brand and			1		40		
	manufacture on wall surface :					13.		
	Water thinnable cement primer	18,524.26	sqm	36.95	6,84,471.41	13.43		
1.2	Providing and applying white cement based putty of average thickness 1	İ		i i				
	mm, of approved brand and manufacturer, over the plastered wall surface							
	to prepare the surface even and smooth complete.	18,524.26	sqm	87.35	16,18,094.11	13.		
	Distempering with 1st quality acrylic distemper, having VOC (Volatile							
	Organic Compound) content less than 50 grams/ litre, of approved brand	1						
	and manufacture, including applying additional coats wherever required, to							
	achieve even shade and colour.					13		
1.3.1	Two coats	18,524.26	sqm	49.65	9,19,729.51	13.8		
2	Repairs to Buildings							
2.1	Removing white or colour wash by scrapping and sand papering and							
	preparing the surface smooth including necessary repairs to scratches etc.			. 1				
	complete	18,524.26	sqm	8.35	1,54,677.57	14		
	Painting with synthetic enamel paint of approved brand and manufacture of							
	required colour to give an even shade :					14.		
2.2.1	One or more coats on old work	8,224.74	sqm	51.30	4,21,929.16	14.5		
		TOTAL			31,14,430.35			
	Add Cost index @ 3.92	1,22,085.67						
		32,36,516.02						
`]	Add Labour Cess @ 1% (on Estimate 3236516.02 Total)							
	Grand Total ₹							
			Say ₹					

The above estimate is based on (DSR 2016 + Cost index).

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A.E.(IVIL)

J.E(Cnil)

Cosi es. late for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Syn. letic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 5 at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					13.4
1.1.1	Water thinnable cement primer	18,524.26	sqm	36.95	6.84,471.41	13.43.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	18,524.26	sqm	87.35	16,18,094.11	13.8
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1,3.1	Two coats .	18,524.26	. sqnı	49.65	9,19,729.51	13.81
2	Repairs to Buildings					
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	18,524.26	sqm	8.35	1,54,677.57	14.4
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.
2.2.1	One or more coats on old work	8,224.74	sqm	51.30	4,21,929.16	14.54
		TOTAL			31,14,430.35	
	Add Cost index @ 3.92	% (on Estima	te 311443	0.35 Total)	1,22,085.67	
	Tota					
	· Add Labour Cess @ 19	% (on Estimat	e 3236516	6.02 Total)	32,365.16	
			G	rand Total ₹	32,68,881.18	
		32,68,881.18				

The above estimate is based on (DSR 2016 + Cost index).

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Prof Ile (Ext.)

A-F-((1411)

JE(rvil)

• Cost est. late for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synt. Lic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 6 at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing		•			13
1.1	Applying one coat of water thinnable cement primer of approved brand and					
	manufacture on wall surface :					13.43
1.1.1	Water thinnable cement primer	14,280.72	sqm	36.95	5,27,672.60	13.43.1
	Providing and applying white cement based putty of average thickness 1	į			•	
	mm, of approved brand and manufacturer, over the plastered wall surface					
	to prepare the surface even and smooth complete.	14,280.72	sqm	87.35	12,47,420.89	13.80
	Distempering with 1st quality acrylic distemper, having VOC (Volatile				1	
	Organic Compound) content less than 50 grams/ litre, of approved brand]		'		
	and manufacture, including applying additional coats wherever required, to					13.81
	achieve even shade and colour.			10.05	7.00.027.75	
	Two coats	14,280.72	sqm	49.65	7,09,037.75	13.81.2
	Repairs to Buildings					14
	Removing white or colour wash by scrapping and sand papering and			}		
	preparing the surface smooth including necessary repairs to scratches etc.			0.05	4 40 044 04	4.4.4
	complete	14,280.72	sqm	8.35	1,19,244.01	14.43
	Painting with synthetic enamel paint of approved brand and manufacture of					14.54
	required colour to give an even shade :				0.40.552.00	
2.2.1	One or more coals on old work	6,229.12	sqnı	51.30	3,19,553.86	14.54.1
		TOTAL]	29,22,929.11	
•	Add Cost index @ 3.92	% (on Estima	te 292292	9.11 Total)	1,14,578.82	
		30,37,507.93				
-	Add Labour Cess @ 1% (on Estimate 3037507.93 Total)					
		30,67,883.01				
				Say ₹	30,67,883.01	

The above estimate is based on (DSR 2016 + Cost index).

Cost resultate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 7 at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	9,682.34	sqm	87.35	8,45,752.40	13.80
1.2	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.81
1.2.1	Two coats	38,729.35	sqm	49.65	19,22,912.23	13.81.2
2	Repairs to Buildings					14
2.1	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	9,682.34	sqm	10.8	1,04,569.27	14.40
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.2.1	One or more coats on old work	13,391.11	sqm	51.30	6,86,963.94	14.54.1
		TOTAL			35,60,197.84	
	Add Cost index @ 3.92	% (on Estima	ate 356019	7.84 Total)	1,39,559.76	
	Tota					
	Add Labour Cess @ 1%	(on Estimate	3699757	60 Total)	36,997.58	
	Grand Total ₹					
				Say ₹	37,36,755.17	

The above estimate is based on (DSR 2016 + Cost index).

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A F (CVIL)

J.E(CIVIL)

Cost ... nate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Symptotic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 8 at NIT, Kurukshetra

ovi.	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing	-				. 13
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	9,411.47	sam	87.35	8.22.091.90	. 13.80
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.2.1	Two coats	37,645.87	sqm	49.65	18,69,117.45	13.81.
2	Repairs to Buildings	,				1
. •	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	9,411.47	sqm	10.8	1,01,643.88	14.4
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2.2.1	One or more coats on old work	13,387.38	sqm	51.30	6,86,772.59	14.54.
	·	TOTAL			34,79,625.82	
	Add Cost index @ 3.92	% (on Estima	te 347962	5.82 Total)	1,36,401.33	
		Total	36,16,027.15			
	Add Labour Cess @ 1%	o (on Estimate	3616027	.15 Total)	36,160.27	
			.Gr	and Total ₹	36,52,187.42	
		36,52,187.42				

The above estimate is based on (DSR 2016 + Cost index).

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PACKOLING CROWLS

A'E (CMIL)

THOUGH)

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Syn stic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 9 at NIT, Kurukshetra

S.No	. Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
1.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	9,690.95	sqm	87.35	8,46,504.48	13.8
1.2	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.2.1	Two coats	38,763.82	sạm	49.65	19,24,623.66	13.81.
2	Repairs to Buildings					.1
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	9,690.95	sqm	10.8	1,04,662.26	14.4
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					_14.5
2.2.1	One or more coats on old work	12,358.07	sqm	51.30	6,33,968.99	14.54.
	,	TOTAL	-		35,09,759.40	
	Add Cost index @ 3.92	% (on Estimat	te 350975	9.40 Total)	1,37,582.57	
	Total					
•	Add Labour Cess @ 1%	(on Estimate	3647341	.96 Total)	36.473.42	
	-		Gı	and Total ₹	36,83,815.38	
				Say ₹	36,83,815.38	

The above estimate is based on (DSR 2016 + Cost index).

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Profile (Ext.)

A.E.(Criil)

Kiphy Jilla JE(CHIL)

Cost each nate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synchetic Enamal painting on doors, windows & grills etc. in the Boys Hostel no. 10 at NIT, Kurukshetra

S.i·lo	ltem	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					13
•	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	29,073.00	sqm	87.35	25,39,526.55	13.80
1.2	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				* .	13.81
1.2.1	Two coats	1,16,292.00	sqm	49.65	57,73,897.80	13.81.2
2	Repairs to Buildings		-			14
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	29,073.00	sqm	10.8	3,13,988.40	14.40
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.2.1	One or more coats on old work	40,176.00	sqm	51.30	20,61,028.80	14.54.1
		TOTAL			1,06,88,441.55	
	Add Cost index @ 3.92 %	6 (on Estimate	1068844	1.55 Total)	4,18,986.91	
		1,11,07,428.46				
	Add Labour Cess @ 1% (on Estimate 11107428.46 Total)					
	Grand Total ₹					
				Say ₹	1,12,18,502.74	

The above estimate is based on (DSR 2016 + Cost index).

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A E (Covil)

J.E(Crvil)

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Nan of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 1 to 10 at NIT, Kurukshetra

	raranonora					
S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
1.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	1,51,008.82	sqm	96 8	1,46,17,653.78	13.47.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	7,550.44	sqm	87.35	6.59,531.02	13.8
a 2	Repairs to Buildings					1.
2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					14.
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	1,800.00	sam	274.80	4,94,640.00	14.1.
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1,51,008.82	sqm	10.8	16,30,895.26	14.4
		TOTAL			1,74,02,720.05	
	Add Cost index @ 3.92	% (on Estimate	e 1740272	20.05 Total)	6,82,186.63	
				Total	1,80,84,906.68	
	Add Labour Cess @ 19	% (on Estimate	18084906	6.68 Total)	1,80,849.07	
			G	rand Total ₹	1,82.65,755.75	
				Say ₹	1,82,65,755.75	

The above estimate is based on (DSR 2016 + Cost index)

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A E (Civil)

J.E(CATE)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 1 at NIT, Kurukshetra

S.No.	ltem	Quantity	Unit	Rate	Amount	D:	sr. No
1	Finishing						1
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					-	13.4
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,283.82	sqm	96.8	4,14,673.78	1	13.47.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	214.19	sqm	87.35	18,709.58		13.8
2	Repairs to Buildings						1.
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.						14.
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sqm	274.80	27,480.00	ำ	14.1.
İ	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	4,283.82 TOTAL	sqm	10.8	46,265.26 5,07,128.62		14.4
	Add Cost index @ 3.		mate 5071	28 62Total)	19,879.44		
	Add Cost findex & S.	32 70 (OH	nate cor i	Total	5,27,008.06		
	Add Labour Cess @ 1	% (on Estima	te 527008	3.06 Total)	5,270.08		
				rand Total ₹	5,32,278.14		
				Say ₹	5,32,278.14		

The above estimate is based on (DSR 2016 +-Cost index).

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Profile (EXC)

A E (Cril)

J.ECripely

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 2 at NIT, Kurukshetra

S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
●1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone					
	additives of required shade:					13.4
1.1,1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and			1	. 10 007 05	40.47
	including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,266.61	sqm	96.8	4,13,007.85	13.47.
1.2	Providing and applying white cement based putty of average thickness 1			1 1		
	mm, of approved brand and manufacturer, over the plastered wall surface	Ï				
	to prepare the surface even and smooth complete.	242.22	0.0122	87.35	18,634.42	13.8
		213.33	sqm	07.33	10,034.42	
	Repairs to Buildings					1
2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.					
	meters and under, including cutting the patch in proper shape, raking out				•	
	joints and preparing and plastering the surface of the walls complete,					
	including disposal of rubbish to the dumping ground, all complete as per	1		1		14
	directions of Engineer-In-Charge.			07.1.00	27 480 00	
	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sam	274.80	27,480.00	14.1
2.2	Removing dry or oil bound distemper, water proofing cement paint and the					
	like by scrapping, sand papering and preparing the surface smooth			10.8	46,079.39	14.4
	including necessary repairs to scratches etc. complete.	4,266.61	sqm	10.8		
		TOTAL		l	5,05,201.66	
	Add Cost index @ 3.9	2 % (on Estin	nate 50520	1.66 Total)	19,803.90	
-	Total					
	Add Labour Cess @	1% (on Estima	ate 525005	.56 Total)	5,250.06	
	Grand Total ₹					7
	Say ₹					,

The above estimate is based on (DSR 2016 + Cost index).

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Prof E/(E+1)

A.E(Civil)

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Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 3 at NIT, Kurukshetra

S.,	ltem	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
1.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	5,267.40	sqnı	96.8	5,09,884.32	13.47.1
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	263.37	sqm	87.35	23,005.37	13.80
2	Repairs to Buildings					14
•	Repairs to plaster of thickness 12 mm to 20 nm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					14.1
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sqm	274.80	27,480.00	14.1.1
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	5,267.40	sqm	10.8	56,887.92	14.46
		TOTAL		L	6,17,257.61	
	Add Cost index @ 3.92	2 % (on Estim	ate 61725		24,196.50	
				Total	6,41,454.11	
	· Add Labour Cess @ 1	% (on Estima			6,414.54	
			Gı	and Total ₹	6,47,868.65	
				Say ₹	6,47,868.65	

The above estimate is based on (DSR 2016 + Cost index).

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ProtIICE +C)

A.E. CVIIL

Round J. Ecruil

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 4 at NIT, Kurukshetr

.0.	. Item	Quantity	Unit	Rate	Amount	Dsr. N
1	Finishing					
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,133.79	sqm	96.8	4,00,150.87	13.4
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	206.69	sqnı	87.35	18,054.33	13
2	Repairs to Buildings					,
,	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					1
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	120.00	sqm	274.80	32,976.00	` 14
ļ	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	4,133.79	sqm	10.8	44,644.93	14
		TOTAL			4,95,826.13	
•	Add Cost index @ 3.92	% (on Estima	ate 49582	6.13 Total)	19,436.38	
	Total					
	Add Labour Cess @ 1	% (on Estimat	e 515262	.52 Total)	5,152.63	
			Gi	and Total ₹	5,20,415.14	
				Say ₹	5,20,415.14	

The above estimate is based on (DSR 2016 + Cost index).

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A E (CIVIL)

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J. E Crys?

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 5 at NIT, Kurukshetra

3 .	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
_1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone					13.47
	additives of required shade:					
1.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and				1 00 150 07	13.47.
	including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,133.79	sqm	96.8	4,00,150.87	
1.2	Providing and applying white cement based putty of average thickness 1	ļ				
	mm, of approved brand and manufacturer, over the plastered wall surface	[
	to prepare the surface even and smooth complete.	206.69	sqm	87.35	18,054.33	13.80
2	Repairs to Buildings					14
2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.					
	meters and under, including cutting the patch in proper shape, raking out	Į		1		
	joints and preparing and plastering the surface of the walls complete,	ì			•	
	including disposal of rubbish to the dumping ground, all complete as per				[
	directions of Engineer-In-Charge.					14.
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	120.00	sqm	274.80	32,976.00	14.1.
2.2	Removing dry or oil bound distemper, water proofing cement paint and the					
	like by scrapping, sand papering and preparing the surface smooth					
	including necessary repairs to scratches etc. complete.	4,133.79	sqm	10.8	44,644.93	14:40
	·	TOTAL			4,95,826.13	
	Add Cost index @ 3.92	2 % (on Estim	ate 49582	6.13 Total)	19,436.38	
				Total	5,15,262.52	
	Add Labour Cess @ 1	% (on Estima	te 515262	.52 Total)	5,152.63	
				and Total ₹	5,20,415.14	-5
				Say ₹	5,20,415.14	

The above estimate is based on (DSR 2016 + Cost index).

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A'E(Civil)

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S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					. 1
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
1.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,732.41	sqm	96.8	4,58,097.29	13.47.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface		`			۲.
	to prepare the surface even and smooth complete.	236.62	sqm	87.35	20,668.80	13.8
	Repairs to Buildings					1
•	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete.					
	including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					14.
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	120.00	sqm	274.80	32,976.00	14.1.
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth			10.8	51,110.03	14.4
	including necessary repairs to scratches etc. complete.	4,732.41	sqm	10.8		14.4
		TOTAL		L	5,62,852.12	
	Add Cost index @ 3.92	2 % (on Estim	ate 56285	2.12 Total)	22,063.80	
				Total	5.84,915.92	
	Add Labour Cess @ 1	% (on Estima	te 584915	.92 Total)	5,849:16	
			Gr	and Total ₹	5,90,765.08	
				Say ₹	5,90,765.08	

The above estimate is based on (DSR 2016 + Cost index).

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Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 7 at NIT, Kurukshetra

	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				•	13.4
1 1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	35,738.00	sqm	96.8	34,59,438.40	13.47.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1,786.90	sqm	87.35	1,56,085.72	13.8
2	Repairs to Buildings					1
2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					· 14
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	260.00	sqm	274.80	71,448.00	14.1
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	35,738.00	sqm	10.8	3,85,970.40	14.4
		TOTAL			40,72,942.52	
	Add Cost index @ 3.92	% (on Estima	te 407249	2.52 Total)	1,59,659.35	
				Total	42,32,601.86	<u> </u>
	Add Labour Cess @ 19	6 (on Estimat	e 4232601	.86 Total)	42,326.02	
		~	G	rand Total ₹	42,74,927.88	
				•Say ₹	42,74,927.88	

The above estimate is based on (DSR 2016 + Cost index).

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A'E (Covil)

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Name of Work: - Cost estimate for	external finishing work i.e. External painting in Boys Hostel no.	8 at NIT, Kurukshetr

:	0.	Item	Quantity	Unit	Rate	Amount	Dsr. No
	1	Finishing					1
(1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
	1.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	36,630.00	sqm	96.8	35,45,784.00	13.47
	1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1,831.50.	sqin	87.35	1,59,981.53	13.8
	2	Repairs to Buildings					1
	2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.				•	14
	2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	260.00	sqm	274.80	71,448.00	14.1
	2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.		sqm	10.8	3,95,604.00	14.4
			TOTAL			41,72,817.53	
		Add Cost index @ 3.92	% (on Estima	ate 417281	7.53 Total)	1,63,574.45	
					Total	43,36,391.97	
		Add Labour Cess @ 1%	6 (on Estimate	4336391	.97 Total)	43,363.92	-5
				Gi	rand Total ₹	43,79,755.89	
					Say ₹	43,79,755.89	

The above estimate is based on (DSR 2016 + Cost index).

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hot Ill(EX)

A-E(CIVIL)

J.E(Cruhile)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 9 at NIT, Kurukshetra

S.I	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
1.	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
1 1.	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	37,575.00	sqm	96.8	36,37,260.00	13,47.1
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1,878.75	sqm	87.35	1,64,108.81	13.80
7	Repairs to Buildings					14
2.	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					14.1
2.1.	1 With cement mortar 1:4 (1 cement: 4 coarse sand)	260.00	sgnı	274.80	71,448.00	14.1.1
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	37,575.00 TOTAL	sqm	10.8	4,05,810.00 42,78,626.81	14.46
	Add Cost index @ 3.92		to 427862	G 81 Total V	1,67,722.17	
	Add Cost Index (@ 5.92	70 (OII ESUITA	42/002	Total	44,46,348.98	
	- Add Labour Cess @ 19	% (on Estimal	e 4446348	3.98 Total)	44.463.49	
				rand Total ₹	44,90,812.47	
				Say ₹	44,90,812.47	

The above estimate is based on (DSR 2016 + Cost index).

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Profile(Exc)

A.E.(CIVIL)

Ryoh JE(C19/11)19

N	eme of Work: - Cost estimate for external finishing work i.e. Kurukshetra	External pai	nting in	Boys Hos	stel no. 10 at N	IT,
S	Item	Quantity	Unit	Rate	Amount	Dsr. No
	Finishing					13
1.	1 Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
1.1.	1 New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	14,248.00	sqm	96.8	13.79,206.40	13.47.1
1.	2 Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	712.40	sqm	87.35	62,228.14	13.80
	2 Repairs to Buildings					14
2.	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					₹ 14.1
2.1.	1 With cement mortar 1:4 (1 cement: 4 coarse sand)	360.00	sqın	274.80	98,928.00	14.1.1
2.:	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.		sqnı	10.8	1,53,878.40 - 16,94,240.94	14.46
•			100101	0.04 T-1-1 V		
	Add Cost index @ 3.92 % (on Estimate 1694240.94 T					
	Add Labour Cess @ 19	Total 18 Total)	17,60,655.18 17,606.55			
	Add Labour Cess @ 17	o (OII ESUITALE		rand Total ₹	17,78,261.74	
				Say ₹		

The above estimate is based on (DSR 2016 + Cost index).

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Protfice+1)

A'E(Crint)

J.E. Crville

Cos st....ate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Girls Hostel no. A,B,C & KC at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No.
a 1	Finishing					1
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					13.4
1.1.1	Water thinnable cement primer	30,880.75	sqm	36.95	1,1,41.043.71	13.43.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		gm D30:D3	87.35	44,87,596.64	13.8
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.3.1	Two coats	1,12,857.33	sqm	49.65	56,03,366.43	13.81.
2	Repairs to Buildings					1
2.1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	30,880.75	sqm	8.35	2,57.854.26	14.4
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.		sqm	10.8	2,21,340.06	14.4
2.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2 3.1	One or more coats on old work	16,698.72	sqm	51.30	8.56,644.34	14.54.
		TOTAL			1,25,67,845.45	
	. Add Cost index @ 3.92 %	(on Estimat	e 12567845	5.45 Total)	4,92.659.54	5
				Total	1,30,60.504.99	
	. Add Labour Cess @ 1%	(on Estimate	13060504.	99 Total)	1,30,605.05	
			Gra	and Total ₹	1,31,91,110.04	
				Say ₹	1,31,91,110.04	

The above estimate is based on (DSR 2016 + Cost index).

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Prof II(EXC)

A'E(Civil)

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Cos s...nate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Girls Hostel Alaknanda Bhawan at NIT, Kurukshetra

S.No	ltem ·	Quantity	Unit	Rate	Amount	Dsr.,No
1	Finishing					1
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					13.4
1.1.1	Water thinnable cement primer	12,106.59	sqnı	36.95	, 4,47,338.50	13.43.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	12,106.59	sqm	87.35	10,57,510.64	13.8
_	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.3.1	Two coats	12,106.59	sqm	49.65	6,01,092.19	13.81
2	Repairs to Buildings					
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	12,106.59	sqm	8.35	1,01,090.03	14.4
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2.2.1	One or more coats on old work	527.47	sqnı	51.30	27,059.21	14.54
		TOTAL			17,86,752.07	
	Add Cost index @ 3.92	% (on Estima	ate 178675	2.07 Total)	70,040.68	
				Total	18,56,792.75	
	. Add Labour Cess @ 1%	(,on Estimate	1856792	.75 Total)	18,567.93	
			G	rand Total ₹	18,75,360.68	
				Say ₹	18,75,360.68	

The above estimate is based on (DSR 2016 + Cost index).

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A.E.(CIVIL)

Rooh J. ECIMIE!

Cos sunate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Girls Hostel Bhagrathi Bhawan at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					1
1.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					13.4
1.1.1	Water thinnable cement primer	18,774.16	sgm	36.95	6.93,705.21	13.43.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	18,774.16	sqm	87.35	16,39,922.88	13.8
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.3.1	Two coats	18,774.16	sqm	49.65	9.32.137.04	13.81.
2	Repairs to Buildings					1
2.1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	18,774.16	sqm	8.35	1,56,764.24	14.4
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2 2.1	One or more coats on old work	6,350.00	. sqm	51.30	3.25,755.00	14.54
		TOTAL			30,54,579.16	
	Add Cost index @ 3.92	% (on Estima	ite 305457	9.16 Total)	1,19,739.50	
				Total	31,74,318.66	
	Add Labour Cess @ 19	% (on Estimat	te 3174318	.66 Total)	31,743.19	
			G	rand Total ₹	32,06,061.85	
				Say ₹	32,06,061.85	

The above estimate is based on (DSR 2016 + Cost index).

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A E (CIVIL)

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Cost sunate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamal painting on doors, windows & grills etc. in the Girls Hostel Cauvary Bhawan at NIT, Kurukshetra

S.No	Item	Quantity	Unit	Rate	Amount	Dsr. No
• 1	Finishing					13
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	6,249.58	sam	87.35	5,45,900.81	13.80
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.2.1	Two coats	24,998.34	sam	49.65	12,41,167.58	13.81.2
2	Repairs to Buildings					14
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	6,249.58	sqm	10.8	• 67,495.46	14.46
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2 2.1	One or more coats on old work	7,287.14	sqın	51.30	3,73,830.28	14.54.1
_		TOTAL			22,28,394.14	
	Add Cost index @ 3.92 % (on Estimate 2228394.14 Total) Total Add Labour Cess @ 1% (on Estimate 2315747.19 Total)					
	Grand Total ₹					
	Say ₹					

The above estimate is based on (DSR 2016 + Cost index).

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A.E.(Civil)

J.E(CIVIL)

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Syl. letic Enamal painting on doors, windows & grills etc. in the Girls Hostel Kalpana Chawla at NIT, Kurukshetra

ovi.8	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
1.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	14,244.56	sqm	87.35	12,44,262.32	13.8
	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.		·		·	13.8
1.2.1	Two coats	56,978.24	sqm	49.65	28,28,969.62	13.81
2	Repairs to Buildings					1
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	14,244.56	sqnı	10.8	1,53,841.25	14.4
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2.2.1	One or more coats on old work	2,534.11	sqm	51.30	1,29,999.84	14.54
		TOTAL			43,57,073.02	
	Add Cost index @ 3.92	% (on Estima	te 435707	3.02 Total)	1,70,797.26	
	Total					
	.Add Labour Cess @ 1% (on Estimate 4527870.29 Total)					
	Grand Total ₹					
	Say ₹					

The above estimate is based on (DSR 2016 + Cost index).

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A'E(Louil)

J.E(Cruil)

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am	of Work: - Cost estimate for external finishing work i.e. External painting in Girls Hostels	A,B,C & KC at NIT,
	Kurukshatra	

	Kuruksnetra					
S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					13
1.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone					13.47
	additives of required shade:	ļ				13.47
1 2.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including					13.47.1
	priming coat of exterior primer applied @ 2.20 kg/10 sqm)	41,829.80	sqm	96.8	40,49.124.64	10.47.1
	Providing and applying white cement based putty of average thickness 1 mm, of					
	approved brand and manufacturer, over the plastered wall surface to prepare			07.05	0.04.004.00	40.00
	the surface even and smooth complete.	6,918.05	sqm	87.35	6,04,291.23	
2	Repairs to Buildings					14
1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.			1		1
	meters and under, including cutting the patch in proper shape, raking out joints			1 1		ĺ
	and preparing and plastering the surface of the walls complete, including	1		1 1		Į
	disposal of rubbish to the dumping ground, all complete as per directions of			1 1		- 111
	Engineer-In-Charge.			<u> </u>		14.1
	With cement mortar 1:4 (1 cement: 4 coarse sand)	400.00	sqm	274.80	1,09.920.00	14.1.1
	Removing dry or oil bound distemper, water proofing cement paint and the like	1		1		
	by scrapping, sand papering and preparing the surface smooth including			10.0	1,40,871.64	11.46
	necessary repairs to scratches etc. complete.	13,043.67	sqm	10.8		
		TOTAL			49,04,207.51	
,	Add Cost index @ 3.92	1,92.244.93				
				Total	50,96.452.44	
	Add Labour Cess @ 19	6 (on Estimate	e 5096452	2.44 Total)	50,964.52	
			G	rand Total ₹	51,47,416.97	
				Sav ₹	51,47,416.97	

The above estimate is based on (DSR 2016 + Cost index).

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Rot AC(EdC)

A'E(Civil)

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Name of Work: - Cost estimate for external finishing work i.e. External painting in Girls Hostel Alaknanda Bhawan at NIT, Kurukshetra

S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
1.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
1.2.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	2,779.16	sqm	96.8	2,69.022.69	13.47.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	138.96	sqm	87.35	12,137.98	13.8
2	Repairs to Buildings					1
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.				•	14.
	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sam	274.80	27,480.00	14.1.
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	2,779.16	sqm	10.8	30,014.93	. 14.4
		TOTAL			3,38,655.60	
	Add Cost index @ 3.92 % (on Estimate 338655.60 Total) Total					
	Add Labour Cess @ 1	% (on Estima	te 351930).90 Total)	3,519.31	-5
			G	rand Total ₹	3,55,450.21	
				Say ₹	3,55,450.21	

The above estimate is based on (DSR 2016 + Cost index).

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Prof I/(E+1)

A'H (avil)

lame of	'M'ork: - Cost estimate for external finishing work i.e. Extern Kurukshetra	nal painting	in Girls I	Hostel Bha	agrathi Bhawai	n at NI
S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					13
1.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
1.2.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	669.14	sqm	96.8	64,772.75	13.47.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	33.46	sqm	87.35	2,922.47	13.80
• 2	Repairs to Buildings					14
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	669.14	sqm	10.8	7,226.71	14.43
		TOTAL			74,921.93	
	Add Cost index @ 3.9	92 % (on Estir	nate 7429	1.93 Total)	2,936.94	
				Total	77,858.87	
	Add Labour Cess @	1% (on Estim	ate 77858	.87 Total)	778.59	
			Gr	and Total ₹	78,637.46	
				Say ₹	78,637.46	

The above estimate is based on (DSR 2016 + Cost index).

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	Kurukshetra					
S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. No
1	Finishing					1
1.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.4
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	14,248.72	sqm	96.8	13,79,276.10	13.47.
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	712.44	sqm	87.35	62,231.63	13.8
2	Repairs to Buildings					1
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					. 14.
	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sqm	274.80	27,480.00	14.1.
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	3,562.18	, sqm	10.8	38,471.54	14.4
		TOTAL			15,07,459.27	
	Add Cost index @ 3.92	% (on Estima	ite 150745	9.27 Total)	59,092.40	
		Total				
	Add Labour Cess @ 1%	6 (on Estimate	1566551	.68 Total)	15,665.52	
	·		Gr	and Total ₹	15,82,217.19	
				Say ₹	15,82,217.19	

The above estimate is based on (DSR 2016 + Cost index).

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Prot I/C (E+C)

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	f 'Nork: - Cost estimate for external finishing work i.e. Exter Kurukshetra					
S.No	Item	Quantity.	Unit	Rate	Amount	Dsr. N
1	Finishing					
1.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	24,132.78	sqm	96.8	23,36,053.10	13.4
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	6,033.19	sam	87.35	5.26.999.15	13.
	Repairs to Buildings	0,000.10				
2.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.				٠	1.
	With cement mortar 1:4 (1 cement: 4 coarse sand)	200.00	sqin	274.80	54,960.00	14.
Ì	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	6,033.19	sqnı	10.8	65,158.45	. 14
		TOTAL			29,83,170.70	
	Add Cost index @ 3.92	% (on Estima	ate 298317	0.70 Total)	1,16,940.29	
				Total	31,00,110.99	
	Add Labour Cess @ 19	6 (on Estimate	e 3100110	.99 Total)	31,001.11	
			Gi	and Total ₹	31.31,112.10	1
				Say ₹	31,31,112.10	

The above estimate is based on (DSR 2016 + Cost index). •

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A.E. (CIVIL)

JE (LIVIL)

Name of Work: - Cost estimate for Internal finishing work i.e. Distempering in rooms, loboy, kitchen, store, toilets Enamal painting on doors, windows & grills etc in Residential building (except BT-CT Type houses) at NIT, Kurukshetra

S.No.	ltem	Quantity	Unit	Rate	Amount	Dsr. No.
	Finishing					1
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					13.4
	Water thinnable cement primer	42,182.25	sqm	36.95	15,58,634.14	13.43.
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		sqm	87.35	57,37,254.57	13.8
1.3	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.8
1.3.1	Two coats	1,41,867.01	sqm	49.65	70,43,697.05	13.81.
2	Repairs to Buildings	, , , , , , , , , , , , , , , , , , , ,				· 1
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	42,182.25	sqm	8.35	3,52,221.79	14.4
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	23,498.97	sqm	10.8	2,53,788.88	14.4
2.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:		,			14.5
2.3.	One or more coats on old work	27,482.43	sqm	51.30	14,09,848.66	14.54.
		TOTAL			1,47,96,810.94	
	Add Cost index @ 3.92 % (on Estimate 1	4796810	.94Total)	5,80,034.99	
				Total	1,53,76,845.92	
	Add Labour Cess @ 1% (c	n Estimate 150	376845.9	2 Total)	1,53,768.46	
			Grai	nd Total ₹	1,55,30,614.38	
				Say ₹	1,55,30,614.38	

The above estimate is based on (DSR 2016 + Cost index).

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A'E(C'VIL)

Raphy J.E(Circil)

A Name of Work: - Cost estimate for external finishing work i.e. External painting in Residential building (except BT-CT Type houses) at NIT, Kurukshetra

S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)		sqm	96.8	1,11,33,020.27	13.47.1
1.2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	11,501.05	sqm	87.35	10,04,616.72	13.80
2	Repairs to Buildings		-			14
•	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					. 14.1
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	1500.00	sqm	274.80	4,12,200.00	14,1.1
2.2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1,15,010.54	sqm	8.35	9,60,338.01	14.43
	<u> </u>	TOTAL	2-1111		1,35,10,175.00	
	Add Cost index @ 3.92 % (3510175	00 Total)	5,29,598.86	
	7.00 000 mon @ 0.02 m	o. Louinato i		Total	1,40,39,773.86	
	Add Labour Cess @ 1% (or	n Estimate 14	039773.8		1,40,397.74	
				nd Total ₹		
				Say ₹	1,41,80,171.60	

The above estimate is based on (DSR 2016 + Cost index).

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A'E(Civil)

Ryexhanila JE(Civil)

Name of Work: - Cost estimate for Internal finishing work i.e. Distempering in rooms, loppy, kitchen, store, toiletsetc. including Enamal painting on doors, windows & grills etc in BT-CT Type houses at NIT, Kurukshetra

S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing					13
1.1 •	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth					
	complete.	2,135.48	sqm	87.35	1,86,534.18	13.80
1.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.					13.83
1.2.1	Two coats	21,354.85	sqm	71	15,16,194.35	13.83.2
	Repairs to Buildings	21,001100	39		,,	14
	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	2,135.48	sqm	10.8	23,063.18	14.46
2.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.2.1	One or more coats on old work	4,579.61	sqnı	51.30	2,34,933.99	14.54.1
•		TOTAL			19,60,725.71	
	Add Cost index @ 3.92 %	on Estimate	1960725	71 Total)	76,860.45	
				Total	20,37,586.15	
	Add Labour Cess @ 1% (on Estimate 2	037586.1	5 Total)	20,375.86	
	·		Gra	nd Total ₹	20,57,962.01	
				Say ₹	20,57,962.01	

The above estimate is based on (DSR 2016 + Cost index).

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A.E. CIVILED

Rymay 1119 J.E.C. VIIO

Name of Work: - Cost estimate for external finishing work i.e. External painting in BT-CT Type house at NIT, Kurukshetra

S.No.	Item	Quantity	Unit	Rate	Amount	Dsr. No.
1	Finishing	1				13
	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	11,778.39	sqm	96.8	11,40,148.15	13.47.1
	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	2,355.68	sqm	87.35	2,05,768.65	13.80
2	Repairs to Buildings					14
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					• 14.1
)	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sqm	274.80	27,480.00	14.1.1
2.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches					
	etc. complete.	11,778.39	sqm	108	1,27,206.61	14.46
		TOTAL			15,00,603.41	
	Add Cost index @ 3.92 % (on Estimate 1500603.41 Total)					
		15,59,427.07				
	Add Labour Cess @ 1% (on Estimate 1559427.07 Total) Grand Total ₹					
		Say ₹	15,75,021.34			

The above estimate is based on (DSR 2016 + Cost index).

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ProtThe HC)

A·E(CIVILLY)

Rom J.E(Crill)

Item No. 25.5 To consider and approve the the cost estimate for the construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex (LHC) and MBA/MCA building at NIT, Kurukshetra

The work of construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building was approved with the estimated cost of Rs. 64,79,500/- in its 19th meeting of Building & Works Committee held on 11.09.2014 subsequently, approved by FC in its 30th meeting & BoG in its 34th meeting held on 19.09.2014. After approval the case was put up for execution in the April 2015, the Accounts Section commented that presently, funds under Plan-Grant has been exhausted. Confirmation of funds will be made after receiving of Plan-Grant from MHRD.

Further, in between the 32nd meeting of FC meeting held on 15.12.2015 in which it was decided that "priority should be given to close/complete the ongoing projects before taking up new projects and new projects should be taken up keeping the availability of funds into consideration". Further, the matter was discussed in the meeting held on 2.11.2017 in the office of the Hon, ble Director with the Chief Engineer, CPWD NZ-1. After meeting visited the site and resolved that a fresh requisition be sent to CPWD. Accordingly letters vide no. CC/3506/828/6999 dated 26.12.2017 & CC/3506/93/590 dated 01.02.2018 were sent to Executive Engineer (Civil and Elect), CPWD. The Executive Engineer (Civil), CPWD submit the preliminary cost estimate for an amount of Rs. 74,13,100/- vide letter no. 20(142)/PS/KCD/2018/1346 dated 10.04.2018 for construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building. The same was put up before the Estate Affairs Committee meeting held on 06.09.2018 for approval. The Estate Affairs Committee recommended that before proceeding further the requirement of construction in the Instructional Buildings area may be checked including the proposed area of Construction of Multi-story Building for four Schools for PG Study and Research (G+5) with the guidelines framed in the light of HEFA. It was also decided that this item will be again discussed in the next EAC meeting. As per the decision of EAC to check the feasibility and found that the work will be executed as per guidelines framed in the light of HEFA.

Further, the matter was again put up before the EAC held on 29.01.2019 & 07.02.2019. The EAC resolved and recommended that the corridor be constructed as on similar patron to the existing corridor. It is also proposed that a channel gate be provided at the end of corridor for safety purpose. Further, appropriate provision may also be made for the lateral entry towards LHC & MBA/MCA Block through corridor. The same was approved by the competent authority of Institute. It is important to note that the existing corridor ends at New Workshop Building. Later on LHC and MBA/MCA building were constructed beyond the corridor. During the rainy season it is very difficult for faculty, students and Staff to access to LHC and MBA/MCA buildings of the existing corridor needs extension to access in the above said buildings. Moreover, it is worth mentioning here that during shifting of material/equipment and furniture etc. is also very difficult without proper access to both the buildings. So it is mandatory requirement to extend the existing corridor upto the flexible road towards south side of LHC and MBA/MCA buildings.

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 74,13,100/- for work of construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex (LHC) and MBA/MCA building.



MINUTES OF 19th
MEETING OF BUILDING & ,
WORKS COMMITTEE
Sept. 11, 2014



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119 Some hall schools. Later, as per areissan triver at 18% E&WC, in order to meet the proceeding space in quantities of the institute, any more facelty offices, thus tooms, futured rooms, confortable rooms, seminar rooms are readed to the structure (and GAS). This has resolve in an increase in plinth area evants increases when of all the Poors) from approx 10,000 signs to approx 21,000 squalities. The BASSO approved the cost estimate for an amount of DS 122,95,32,700/s.

Itum No. 19.6 To consider & approve the Cost Estimate for providing Concerting coil over the institute boundary for security purpose at NIT Korakshetra

The Commun. 56 Will pointed our first in denoting of the item, it has been wrongly monitories that Chairman BOG 5 ld a meeting with "Description and our officers" instead, it about docard "Locar (Estate) and the secretry expert "Stack Notice and the concerning our because of the BAWC considered the result and mass resolved that concerning out by provided all clong the perintary manufacturing its length of 7 fee, a new the ground level The PAWC approved the cost estimate for Rs. 53,03,000 perints.

No. 19.7 To consider & approve the Cost Estimate for the construction of multi-storey building for faculty/officers having 40 apartments at NFT Korukshetra

The BSAVC considered and approved the past establication of a consequetion of matter decay building for the arty (Professors/Associate Professors/Associate
Igem/No. 19.8

To consider & approve the revised Cost Estimate for extension of existing connecting corridor up to MSA/MCA and LHC block in the Instructional Building at NIT Korakshetra

The USOV indeligerated on the product and abserved dual the cost estimate has a reason from Rs. 20.26 boxings of 04.79,500% with the increase at are converted additional scope or work or the room and tag had and two estimated contains of from 100 Med block and 48%, MCA brock has decired in parameter 100 W.

minting. Therefore, the SBAVC approved the revises correctionate for Av. 54.79,5007-

Dom No. 19.3 To consider & approve the Cost Estimate for the provision of vitrified floor tiles in office chambers, class rooms and laboratories of various departments in the institute and Chemistry Depit., Room no. E-222, class rooms and laborated Engg. Department at NIT Knrukshetra

Mondays observed that the matter has not been recommended by the Barate Adairs Committee. Therefore, it was received that the same be referred to EAC for Os decision in the matter before bringing rips in agency, item to B&WC.

tem No. 19.20 To consider & approve the revised Cost Estimate for providing audio system in Board Room, Golden Jubilee Administrative Building Including Jubilee Hall & Sonate Hall at NIT Kurukshetra

The BAWC deliberated on the matter veloce Processor Incharge (CM) apprised for this existing audio systems in the Senate and Jubilee Fiells are not street onine properly and have outlived their utility. These require periodic captur and maintenance and despite that they have become directions. Therefore, a trice evarems need to be replaced/appreded Proches, the Board Soom of Golden Jubilee Administrative Building does not have any action system which creates difficulties at the conduct of official message.

The five delicentions on the matter, the BetWC approved the consed cost establish amounting to Re. 2,00.11.080/- for providing scalar system in the local Room of Golden Jubbles. Administrative Budging and Ephoement/hipsy clarion of hudio systems asstalled in Synch (Ed) and Jubbles Bottle the result to

O un No. 19.11 To consider & approve the Cost Estimate for providing peripheral road along the external boundary wall of the institute for socurity and maintenance purpose at NIT Euroashetra

The BCA Conditionalist of the months where it was pointed out by SD (F), GPo P of the street on the periphers around a only inprecise the coverest area of the instance NC Conditions where we need to meet BCA (Sectional conditions). A cover only recommend of PLOCH (Mineral Conditions), and Prove the day to

NATIONAL INSTITUTE OF TECHNOLOGY

Where the Ministry of HSD, Geet of India). KURÜKSHETRA-136119

To Ars./2014//1294

Daird: 25.51.20 (4)

NOTIFICATOIN

The Emande Committee of the Institute in their 30% meeting real on 19.09 2014 has renormended as under -

"The Finance Committee made the tohoroug observations:

- The Federice Commutee desired that along with the budget for the financial year at respect of the histories should be presented in the format prescribed by the Manstry as Plan Grant, Non-Plan Grant and progress report of angoing construction works to be placed in each Finance Connecties Meeting to set an overall picture of the works in the histories.
- The rost estimate for works presented in the Budding and Works Committee by realistic perferably based on defined stopp of work and pechniquent growings.
- Item no. 19.6, 10.8, 19.13 more recommended by Finance Committee to Bound of Governors for approval.
- Under new 19 7 and 19 14 of Building and Works Concentral, Palence Convention desired the approved cost by Endring and Marks Committee be reasted as the cost of construction per soluntarilising the on higher side.
- Tracks from 10.70 the Finance Committee authorized Chains an BoO to approve the cost instructe after entirely experiment all estimate of all the three works ensuring that the total cost for each, work does not exceed 50 larg. Further first Chairperson remised that all the economics is exactly from the ChAD on the brildings be reverted by Shift K. W. Pac. Consultant, who has enounced experience in this field.

The above element is administrative to except the independent appropriate independent of Green and

Deputy Registrar (Accounts)

Dean (Estate)

-131-

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA - 108199

SELECTED SELECTION OF SELECTION

Over a 127 to 2014 (A)

Item 34.16. Any other item:

This Book distributes to s(s) the Institute s . Is 54^{s} incoming now on (ii) 00 2018 has idealed as under s

i) The Chairperson, BoO, discussed the charter of demands contained in the letter No NifKTAIMmetes/2015/6BM65 dated 15,9,2016 from the NIT Kutakshetra Teachers' Association.

After collecting arms to 4 for our such the Batte decided is follows:

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- This pages of any enhancy the released to the WEBSE for decrease.
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- $A = \mu(2n) \exp(ng) GAA$ and although the period of the PR 9568 = 3.
- Cost Per Parante controller, et al. 10, 40, 0000, an par llar Carronnes et les espresand by 3 or Market and Johannes (2016)
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- A contact of boundaries in the contact on Medicine per 1900, of some many
- If the property of the control of the property of
- [9] Jacob, A. Sandard, A. Sandard, A. Sagoria, and S. S. S. Sandard, Phys. Lett. B 19, 1200 (1990). Phys. J. S. Sandard, Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990). Phys. Rev. B 19, 1200 (1990).

ii) To consider and approve the minutes of 50° meeting of the Finance Committee, National matitude of Technology Kurnkshietra held on 10.08,2014.

Therefore, confined the intention of the 30^{11} meeting of the bounds. The entropy of National headless of the free choose Bundless of Tables 2009,

Thus is folly all rolling soc, repeat and further her overly better in the

mixther

Energ Agenda Bear

(Sayam Narayan) Registrar

of Gear/Estato).

Deptily Segistrin (BABL)

2. Deputy is upotati (Accelenta).

-133-



Subject. - Administrative Approval & Expenditure Sanctina locapproval of revised cost estimate for the work of extension of existing connecting corridor upon MBA/MCA and DHC-Black in the Instructional Building at NIF, Enruleshetra.

The Box WC in its 19^{4i} maching tells on 11 09 2014 value on 12 08 3 approximates a structural of Re in 2.25,000% consideration as executing connecting control upto MBA/MCA and LHC Block in the stationarm of Bortony and which was subsequently represed by the FC in its 46^{4i} meeting as BoG in $12/34^{4i}$ meeting hald on 19/90/9014

During the discussion on the drawing of the work in the Review Committee meeting with Mr. K.N. Rai at was decreased has the width of regretion should be unautimed as per existing consider and extra growingons be excluded to decrease the cost estimate which was man approved by the Honfide Director, NIT, Kins kateria.

To response the exemptor Engineer (Creaty, COSE), Recent is bmitted the revised cost estimate amounting to Rs. 57,05,300+ (Runces Edginseven Lock five thousand three fundhed only) vide about No. 20(145998/KCD/2014/9822 dated 2011/2014

he view of the above, if agreed, the Horfule Director & Chammat (B&WC), may make approve the revised ensignment of Rs (17,65,300) (Re) less fifty seven loss five thousand three at indred only) and accord Administrative Approva. & Expenditure Som times in that works may be about to CPWD.

Submittee for approving please Matty Coal المَّارِينِ مُعَلِّمُونِيلًا) Superintember SG-H Alexander To Top of the control of t Prof. GC (LM) Bran (Letate) Jan 1 Doming Di George $\widetilde{\mathbf{p}}(\mathbf{R}, \mathcal{A}_{\text{comm}}(\mathbf{t}_{\mathbf{r}}))$ for finish position planes $\overset{\mathcal{S}_{\text{comm}}(\mathbf{r}, \mathbf{r}_{\mathbf{r}})}{\sim}$ Registrate Confirmation of greater with a residence of the form Director Supplied to the state of the st

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA - 136119

Minutes of 32ndMeeting of the Finance Committee, NIT, Kurukshetra held on 15thDecember, 2015 at 10:30 a.m at Committee Room (New Building), Shri Lal Bahadur Shastri, Rashtriya Sanskrit Vidyapeetha, Qutub Institutional Area, New Delhi-110016.

Present:

Prof. Anand Mohan
 Director
 National Institute of Technology
 Kurukshetra

Chairperson (Acting)

Shri S. P. Goyal,
 Joint Secretary (Technology Enabled Learning)
 Department of Higher Education
 Ministry of Human Resource Development
 Govt. of India, Shastri Bhawan
 New Delhi – 110 001

Member

Mrs. Darshana M Dabral
 Joint Secretary & Financial Advisor (IFD)
 Department of Higher Education
 Ministry of Human Resource Development
 Govt. of India, Shastri Bhawan
 New Delhi – 110 001

Member

4. Shri G. R. Samantaray
Registrar Incharge
National Institute of Technology
Kurukshetra

Member-Secretary

At the outset, the Hon'ble Chairperson (Acting) welcomed the members to the 32ndmeeting of the Finance Committee and expressed its gratitude to the Joint Secretary (Tech. Education) and Joint Secretary & Financial Advisor, Ministry of Human Resource Development for sparing their valuable time to attend the meeting.

The agenda was taken up. The Finance Committee made recommendations/took decisions as under:

Item 32.1: To confirm the minutes of 31stMeeting of the Finance Committee, National Institute of Technology, Kurukshetra held on 08.05.2015.

5

The Finance Committee confirmed the minutes of the 31stMeeting of the Finance Committee held on 08.05.2015.

Item 32.2: To note follow up action taken on the 31stmeeting of the Finance Committee held on 08.05.2015.

The Finance Committee noted the follow up action taken by the Institute on the 31stmeeting of the Finance Committee held on 08.05.2015 and observed as under:

Item 31.2- In addition to cost benefit analysis as decided in the 31st meeting a comparison of the cost incurred by the Institute may be made between Cashless Medical Scheme and Non-Cashless Medical Scheme for 9 months i.e. 01-06-2015 to 31-03-2016 vis-à-vis 01.06.2014 to 31.03.2015.

Item 31.7- The Finance Committee suggested that instead of writing "Action has been taken", it should be written as "Action is being taken", as action is still pending.

The Finance Committee desired that the specific and clear action taken should be written in future.

Item 32.3: To consider Revised Budget Estimates for the year 2015-16 and Budget Estimates for the year 2016-17.

The Finance Committee considered the proposed Revised Budget Estimate 2015-16 and Budget Estimates 2016-17 and recommended them to the Board of Governors.

The Finance Committee desired that priority should be given to close / complete the ongoing projects before taking up new projects and new projects should be taken up keeping the availability of funds into consideration.

The Finance Committee also desired that the word "Deficit" should be written instead of "Balance Liability of Govt. of India" in future under the heading "Head of Account" at relevant place(s) in the accounts.

CB4 -136-

AMHORAGENST CHARLET BEFORE COLD BUILDINGS INTO A

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Regarding to subset the bost astigune for construction or additional floor axer the time and following existing building with the provision of life; and controlized air-conditioning at MIT. Kuroksholm

In reference to the meeting with the Court Engineer (Is/1), indeVyPit of the Courtinal Shiptor The from bld Director held on 0.1 H 1910. Age, the indesing the below his month buildings have been and scally distance with the Crost Architect along with Executive Engage or (Crost, Assistant Engineer (Orab) in a coresence of Prof. LC (Esc.) and A.F. (Def). The diamongs of the horse incoherence inhomosity we History bean sont to Chief Architect (NAL) CPWO, Charograph through this other letters, you are , aquested to sono the took estimate for the said budging, an consumption with the Chief Architect (NZ-41) c

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NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

NOJEC195061 43/590

Dated 1 01.02.2018

To

The Executive Engineer (Civil), CPWO, NDRI Campus (Near State Bank of India),

Kamal-132501

The Exceptive Engineer (Block). CPWD, 208-D, HBillDC, Seetons.

Kamai-132501

Subleats

Regarding to submit the obstlestimate for construction of additional float over the following existing buildings with the provision of lifts and contralized air-soudilloning at NIT, Rurokahotra

References

This office letter No. CCI3506/826/8999 dated 28,12,2017.

In continuation to letter uniter reference and as decided in the meeting held on 11.91.2018 and after site visit in the presence of Suparititionang Engineer (Civit). You are requested to send the cost astimate for the below mentioned buildings in consultation with the Chief Architect (NZ-I) to be put up in the forthcoming BAVVC meeting for further necessary sollon.

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providing Pre-feb construction with the provision of Air-conditioning in all thors, this 8 :					
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It is therefore, once again requested to submit the cost estimates for the above said works as early so possible, so that the same may be put up in the indincoming BSWC meeting going to be held very should

Frot, I/O (Fatate & Construction)

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- A E. (Clark)
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- Separatensing Engineer (Chin), CPNO Chandigetti Central Circle Kendiye Saven, Sector-9A, Changgoth
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- Johan (PSD) for Visu Information pieces
- 88 to Ragistration to dilitionation of the Registration of the Society #138+

it may please be traated as most urgent.





भारत सरकार GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT



कार्यालय कार्यपालक अभियंता केन्द्रीय लोक निर्माण विभाग,

एन.डी.आर.आई कैम्पस, नजदीक स्टैट बैंक आफ इंडिया, करनाल -132001

दूरभाष : 0184-2250690 फैक्स : 0184-2250660 Office of the Executive Engineer,
Central Public Works Department,
NDRI Campus, Near State Bank of India,

Karnal-132001. Phone: 0184-2250690 Fax: 0184-2250660

E-mail: cpwdckarnal@gmail.com

संख्या:- 20(142)/यो.शा./क.के.मं/2018/ 1346

दिनांक 10-4:2018

सेवा में,

श्रीप्रका भेराक्ट्र डीन (एस्टेट), राष्ट्रीय प्रोद्योगिकी संस्थान,

कुरुक्षेत्र हरियाणा IH. Checke

पिन-136118/18(ए)

विषय : Construction of extension of existing corridor from New Workshop

Building to 12 nos. Lecture Hall Complex and MBA/MCA Building at NIT,

Kurukshetra.

संदर्भ :

आपका पत्र सं० CC/3506/93/590 दिनांक 01.02.2018.

🕍 महोदय,

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन जिसकी लागत रूपये 74,13,100/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाया गया है। अतः आपसे अनुरोध है कि कार्य की मंजुरी भेजते समय "लेखा शीर्ष" जिसके अतंर्गत व्यय किया जाना है, सूचित किया जाए तथा अनुमोदित प्राक्कलन की एक प्रति भी संलग्न करें।

भवदीय,

संलग्न :

उपरोक्त दो प्रतियों में। Along with line diagram (इंजी. चरणजीत प्रसरीजा) कार्यपालक अभियन्ता करनाल केन्द्रीय मण्डल, के.लो.नि.वि, एन.डी.आर.आई कैम्पस, करनाल।

प्रतिलिपि :-

1. अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-९ए, केन्द्रीय सदन, चण्डीगढ पिन – 160009 को सूचनार्थ।

2. कार्यपालक अभियंता (वै.), करनाल केन्द्रीय वैद्युत मण्डल, के.लो.नि.वि, करनाल को उपरोक्त प्राक्कलन की एक प्रति प्रेषित है। जिसमें विद्युत पोरशन का प्रावधान भी लिया गया है यदि इसके अलावा और भी अन्य प्रावधान लिये जाने है तो आप उनका प्रारम्भिक अनुमान बनाकर चण्डीगढ़ केन्द्रीय परिमण्डल कार्यालय को भेज दें, तािक ग्राहक विभाग से प्रशासनिक स्वीकृति एवं मंजूरी प्राप्त हो सके।

3. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियन्ता



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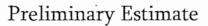
GOVERNMENT OF INDIA

केन्द्रीय लोक निर्माण विभाग

CENTRAL PUBLIC WORKS DEPARTMENT

एन.डी.आर.आई. कैम्पस करनाल-१३२००१

N.D.R.I. Campus Karnal – 132001



Name of Work:-

Construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA Building at NIT, Kurukshetra.

Estimate Cost:-

Rs. 74,13,100/-

Client:-

NIT Kurukshetra.

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana Branch: B & R

Division: KCD

Sub-Division: KCSD

NAME OF WORK:

Construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA Building at NIT, Kurukshetra.

		
MAJOR HEAD	MINOR HEAD	DETAIL HEAD
	'	

This preliminary estimate framed by Er. Ashok Kumar, Assistant Engineer, Kurukshetra Central Sub Division and further processed by Er. Mukesh Jain, Assistant Engineer (P), Karnal Central Division, CPWD, Karnal for Rs. 74,13,100/- i/c contingencies.

REPORT

History:

This preliminary estimate amounting to Rs. 74,13,100/- i/c contingencies has been framed to cover the probable cost of the above mentioned work for accord of A/A & E/S by the competent authority. The requisition for the above said work has been received from Prof. I/C (Estate & Construction), NIT Kurukshetra vide letter No. CC/3506/93/590 dated 01.02.2018. (Sr. No. 7)

Design & Scope:

The following provisions have been made in this estimate as per the diagram showing terrace plan.

- 1. Estimate has been prepared as per PAR-2012 for connecting the existing corridor to the LHC and MBA block and to the existing Road.
- As the building load bearing structure, there is no provision for vertical extension of the building in future.
- 3. Waiting area has not been considered & structure shall be load bearing single storeyed without provision of future vertical extension. (As decided by Professor I/c on 05.04.2018 in the chamber of SE/CCC)
- 4. Normal electrical provision 12.50% has been taken.

Specification:

CPWD Specification 2009 Vol. I & II.

T & F:

Shall be arranged by the contractor.

WC Establishment:

Shall be met out of contingencies.

Land:

Available.

Rate:

PAR - 2012 plus Cost Index.

Method:

Through contract after call of tender.

Time:

04 Months (After receipt of A/A & E/S)

Cost:

Rs. 74,13,100/- i/c contingencies.

Note:

The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change in scope, area, design and specifications etc., if so desired by the client at a later date. The execution of the work will depend upon the receipt of the funds through authorization or through allocation well in time during the financial years.

Assistant Engineer (P)
Karnal Central Division

CPWD. Karnal

Executive Engineer Karnal Central Division CPWD, Karnal

Appendix 50 (Reference-Paris, 3,0,3)

CETTER OF ACCEPTANCE OF DUPOSIT WORKS

(To be issued to the client department)

10

ੀਜ਼ (ਸੁਲੰਗ), ਭਾਵਮੁਸ਼ ਪੀਲੀਗਿਸ਼ੀ ਬਣਦਾਰ, ਪੁਰਵਾਕ ਲੜਿਸ਼ਾਸਤ ਜ਼ਿਵਮੁਸ਼ਤ ਹਨ।

Sab : Execution of Deposit works.

Construction of extension of existing contest from New Workshop Boilding in 12 most Edition. Half Complex and MSA-WCA St. litting with T Kuruschelins.

The above work on the token up by the CPWD as a Deposit work under Planck R-HP of CPWD Code. Object to the for invited

- 1. Indicest restablicast or work as worked out by CPWD including departure during maps only area to be deposite viby the area in participated for work as taken up for execution. No interest will be outdity of PWD to be chem department for such a position.
- 2. The object department should fond lover variant possession of analysis to CPVD, CPVD may, if so required, taken corresponds to demolition (disposal of execute buildings/suppluies.)
- 5 (PWD) does not fund used to complete the work within the natingted rest. If additional fund are required, the sorts will live to be provided by the client department. Necessary revised estimate will be submitted as and who it is printed.
- Any displicant ranging of all the operation of the common (a) for the survival work work with possible approximation as to cold if for in the contrasting general CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award chain need by the autooptiate authority. The decision of the competent authority in CPWD to account the award or to challe get the same in a Count of they will be brinding in the client copartorsal.
- is onds for making payment or all amounts which may be decreed by a Court of leavil Tribunal or by Ascard of an are trained as around to the depart work will be made available by the climat provincent premptly the pective of it not being a party before the Court, in bunal or arbitrator. Such payments will be addition to the payments made to the contractors for executive of work.
- After recept of A/A & 1/8 from the cheer department, the CPWD will propose and submit various detailed architectural disputigs and service relates to local had as whose approvals are required before rating up the construction work. Marse social bothes are independent arganization and CFWD has no control over them. These local both is taken their own time for approvals and the time of construction indicates in the construction indicates in the construction. Although CPWD will make offerfalls to get such approvals early, it may be necessary for the effect department at a topul see with Local Boores, for early a grown.
- 1 Or CPWD above funds of as awarfor assessing in the work. The object should almosford, more that adequate funds are available with CPWD for executing the work. In case the client department to be to provide funds as period, a company of the recessary to CPWD to suspend/abandon the work. In spon eventuality, the object department shall be surely responsible for all the convergences arising and of such stoppany/of indoment of work facilities claims of contractors for nonconstantially magges.
- 8. The class department will help CPWD in many providing sits for Tribon in its for the contractor's labour for of post-by post-ling for access to contractor's as terial and labour to the sits of work in providing the characteristic post-decided to of work or payment of good charges, and of souther this varieties of feed from the concerned electricity point southernty.
- Sign CT W70 maying its discretion allow the chemis to deposit the totals at install near soft in such as so 33.17 factor of the estimated for account not agree total total appropriate for account not agree total agree the factor of the last open and of the estimated expenditure.
- 10. The activities of the deposited in installments, CPWD will not be responsible for any heby, damage, stompage of work classes of confucers to compensation), amages at little to note accept of finids in time.

You can reconstruction convey accompanies on the above to enable this project to proceed for his

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Evecutive Adjines : Earner Contras (School CPMD: NORTH amp.) -KAKNAL (1996) - The

Preliminary Estimate

Name of work: Construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA Building at NIT, Kurukshetra.

SLN o	Description	Qty	Unit	Rate	Amount	PAR No.
1	Load bearing single storey					1
1.1.1	Floor height 3.35mtr.(Office/ College/ Hospital)	339	sq.mtr.	15000.00	5085000.00	2.1.1
1.2	SERVICES					1.2
1.2.1	Internal electrical installation. (Non resi. Bldg)		100 B.			
		5085000.00	cost.	12.50		1.2.8
	Total				5720625.00	
	Add Cost Index @6% (On Estimate Total 1,08,65,813.00)				343238.00	
	Grand Total			(A)	6063863.00	
	Add Contingencies on (A) @.5%				303193.00	
	Add Labour Cess on (A) @ 1%				60639.00	
	Add GST on (A) @ 12%				727664.00	
	Add EPF & ESIC on (A) @ 4.25%				257714.00	
	Grand Total				7413073.00	
	Say Rs.				74,13,100/-	
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	ASSISTANT ENGINEER (P)			CENTRAL		
			CF	PWD. KARN	AL	

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The EAC resolved that the Chief Warden Boys & Girls may be intimated that they can execute these works at their own level from hostel funds as per Institute Rules after getting the approval from the competent authority. Any technical advice/assistance if required, will be provided by Estate Section. Regarding location for the same will be decided after consultation with the Estate Section.

5 To discuss the requests received from the G-Type residents -regarding to construct the toilets near G-Type Market.

The request received from the G-Type residents on dated 30.01.2018 regarding to construct the toilets near G-Type Market the request was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the toilets near G-Type Market may be constructed by the Institute subject to obtain an undertaking from the shopkeepers near G-type houses regarding the cleanliness of the toilets and surrounding area of the market at their own expanses.

To discuss the request received from Vikram Singh, House No.-7 on dated 19.04.2018 – regarding construction of a side boundary wall (connecting DA-9 – DB-39

This item was dropped.

7 To discuss a request received from Prof. Saraswati Setia, Prof. I/C (Structural Dynamics Lab).

The request received from Prof. Saraswati Setia, Prof. I/C (Structural Dynamics Lab) vide No. CED/2018/210 dated 6.2.2018 was discussed in the Estate Affairs Committee Meeting. The EAC resolved that a letter has already been sent in this regard to HOD, Civil through Registrar that the project will be executed under HEFA so the Civil Engineering Department may process the case accordingly with complete details.

8 To discuss the cost estimate for the provision of air conditioning in the 12 nos. Lecture Hall complex

The cost estimate for the provision of air conditioning in the 12 nos. Lecture Hall complex was received from Superintending Engineer (Elect.) vide letter No. 23(130)/CCED/2016-17/95 dated 19.01.2017 was discussed in the EAC meeting and it was resolved that the first phase of installation of ACs in the Institutional area has already been completed. Further the Registrar has desired that the status regarding the installation of ACs in 2nd phase may be apprised alongwith complete case and related documents.

To discuss the provision for finishing internal & external work i.e. distempering & painting in the Boy's Hostels 7 to 10, BT/CT type houses & External painting only in Cauvery Bhawan & residences of the Institute at NIT, Kurukshetra

The cost estimate received from the Superintending Engineer (Civil), CPWD vide letter No. CCC/23/W-III/2017-18/2407 dated 13.09.2017 was discussed in the Estate Affairs Committee meeting and resolved that the external finishing/ painting of Instructional Buildings has already been completed during the visit of NBA. Further during the discussion regarding external finishing/painting work in BT, CT type houses, all other residences, and hostels, it was resolved that the work will be carried out in a phase manner annually as per the availability of funds for the financial year upto five years consecutively under the respective Chargeable Head "Maintenance of Staff Quarters". The same process will continue in alternative five years. Further, it was also finalized that the Estate Section will work out the comprehensive requirement of external finishing/painting in Hostels, Instructional Duildings and Staff Quarters.

To discuss the cost estimate for the construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT, Kurukshetra

The cost estimate for the construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT. Kurukshetra. The EAC discussed that before proceeding further the requirement of construction in the Instructional Buildings area may be checked including the proposed area of Construction of Multistory Building for four Schools for PG Study and Research (G+5) with the guidelines framed in the light of HEFA. It was also decided that this item will be again discussed in the next EAC meeting.

The state of the s

Subject: - Broad guidelines for appraisal of infrastructure projects in CFIs.,

PUC is an E-mail dated July 13, 2018 received from Under Secretary to the Govt. of India, MHRD, D/o. HE, Technical Section-I, regarding the broad guidelines for appraisal of infrastructure projects for CFIs. These guidelines would be used for appraisal of all new projects which would be posed to the Ministry for appraisal.

- i) Only the works in the priority list (Annexure-I) would be funded. In case any additional area is to be constructed, the same has to be adequately justified.
- ii) The works in the negative list (Annexure-II) would not be funded. If any work under these categories are already sanctioned/started, no further funding shall be released on these works, except that which is needed to bring the work to safe stage and close. Of course, the institution can mobilize funds from other sources for their completion.
- iii) The infrastructure entitlements will be for the student strength as per the sanctioned project.
- iv) In the new institutions, the land shall be developed in parcels of 50 acres each, with utilities lined roads, sewage, garbage disposal system, water facilities etc. only after full utilization of this 50 acres, can another parcel of 50 acres be started for land development. The development shall therefore be confined to that part of the land (only) which is functionally required to serve the student strength for the next 5 years.

In reference to the above E-mail, the requisite information regarding details of infrastructure on priority works in construction of a new campus for a CFI has been prepared Annexure-I (placed in the file). It is also intimated that the information regarding total sanctioned student strength received from Deputy Registrar (Academic) on dated 24.08.2018 (placed in the file). The detail of status of infrastructure as on 24.08.2018 is as under:

Status of Infrastructure as on Priority works in construction as per guidelines vide E-mail dated July 13, 2018										
Category		Category Permissible area category wise		Existi	ng	Scope for future Infrastructure				
Code	Name (s)	Area In sqm. required as per norms (No. of students 5886)	Allowed * area in sqm. per Student	Area in sqm.	Area in sqm. per student	In %	Area in Sqm.			
1	Academic/admin/librar y/ labs/workshops	176580	30	55000.35	9.34	20.66	121579.65			
H	Residential area - hostels + faculty + staff quarters	206010	35	199423.98	33.88	1.12	6586.02			
Ш	Sports facility & Common facilities	58860	10	7492.62	1.27	8.73	51367.38			
	Total	441450.00	75	261916.95	44.49	30.51	179533.05			

Submitted please, 28/8/18

A.E. (Civil)

J.E. (Civ

Senior Accountant

Prof. I/C (Estate & Construction)

Door (BOD) 29 15

Registrar

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Director

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Registrar Office
Dairy No. 129
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MINUTES OF THE MEETING OF ESTATE AFFAIRS COMMITTEE HELD ON 29.01.2019 and 7.02.2019 IN THE OFFICE OF DEAN (P&D) & CHAIRMAN (EAC) AT NIT, KURUKSHETRA.

A meeting of Estate Affairs Committee was held on 29.01.2019 at 3.30 PM and on 7.02.2019 at 11.30 AM in the office of Dean (P&D) to discuss the various issues related to Estate Section.

Following were present:

1.	Prof. A. Swarup, Dean (P&D)	Chairman
2.	Prof. S.M. Gupta, Prof. I/C(E&C)	Member
3.	Prof. K.K. Singh, Prof. CED	Member
4.	Dr. Anil Dahiya, Faculty I/C (H&L)	Member
5.	Dr. H.D. Chalak, Faculty I/C (S&C)	Member
6	Dr. Aeidapu Mahesh, Faculty I/C (EM&T)	Member
7.	Sh. S.N. Kaushik, A.E (Civil)	Member & Convener
8.	Sh. Ashish Choudhury, A.E (Elect.)	Special Invitee

Following issues were discussed and resolved as under:

1. To report the action taken on the minutes of the EAC meeting held on 06.09.2018.

The EAC noted the action taken on minutes of EAC meeting held on 06.09.2018. The report of action taken is enclosed.

2. To discuss the cost estimate for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments.

The work wise detailed cost estimate of Rs 1,29,66,532/- for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments prepared by the Estate Section was placed in the EAC meeting. After detailed discussion, it was resolved that the work of renovation of Sports Complex for an amount of Rs. 12,49,330/- be included in the above said work being similar nature of work. The Committee recommended that the total cost estimate of Rs. 1,42,15,862/-(1,29,66,532+12,49;330) for approval and to be put up before B&VVC in its ensuing meeting.

 To discuss the cost estimate for the provision of internal & external finishing i.e. distempering & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chawla) and Staff Quarters.

The cost estimate for the provision for finishing internal & external finishing i.e. distempering & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chawla) and Staff Quarters for an amount of Rs. 11,07,24,672/- was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting for approval.

 To discuss regarding construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT, Kurukshetra.

The matter was discussed & it was resolved and recommended that this item be put up in the next B&WC for consideration & further approval of the competent authority. It was also resolved that the corridor be constructed as on similar to the existing corridor. It is also proposed that a channel gate be provided at the end of corridor for safety purpose. Further, appropriate provision may also be made for the lateral entry towards LHC & MBA/MCA Block through corridor.

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Item No. 25.6 To consider and approve the the cost estimate for design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.

The work of Sewage Treatment Plant (STP) design, supplying, installation, testing and commissioning of 1 MLD capacity effluent treatment plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on Sequencing Batch Reactor (SBR) technology was approved by the Building & Works Committee in its 15th meeting of held on 19.12.2011, vide item No. 15.9 for an amount of Rs.318.08 lacs subsequently the same was approved by the Finance Committee meeting in its 24th meeting held on 12.03.2012 and Board of Governors in its 27th meeting held on 13.03.2012 (copy enclosed).

Further, the administrative approval and expenditure sanction was conveyed to Executive Engineer (Civil), CPWD, Karnal for execution of the above said work vide letter No. CC/16/93 dated 07/08.01.2013 (copy enclosed) for an amount of Rs. 318.08 lacs. The CPWD awarded the work to the agency vide letter No. 54(NIT)/KCD/2014/2716 dated 14.08.2014 for execution of the work of design, supplying, installation, testing and commissioning of 1 MLD capacity effluent treatment plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on Sequencing Batch Reactor (SBR) technology (copy enclosed). The main work of Sewage Treatment Plant (STP) has been completed with the amount of Rs. 167.40 lacs which is against A/A & E/S of Rs. 318.08 lacs already conveyed to CPWD.

Further, the matter was discussed during the 24th meeting of Building &Works Committee held on 06.03.2018 vide item No. 24.2 under item No. 20.5 and decided as under:

"Regarding the work of Installation of STP is completed and put to use. However, the compliance of defects/ shortcomings already conveyed to CPWD will be made shortly. Further, it was resolved that the CPWD will submit the draft final bill of STP within a week, so that the payment may be released and the work may be closed after receipt of final utilization certificate from CPWD. Regarding the work of water distribution network for re-use of treated water for Horticulture and flushing in 600 seater Girls Hostel and 300 seater Multi-Purpose Boys Hostel, it was also resolved that the CPWD will submit the cost estimate of the work of the basis of approved design. Accordingly, a separate A/A & E/s for this work will be conveyed to CPWD after approval of the competent authority and the funds for this work will be utilized from the saving of the STP work." (Copy enclosed)

Accordingly, a letter sent to Executive Engineer (Civil) CPWD, Karnal vide No. CC/3501/293/2334 dated 09.05.2018 for submission of detailed cost estimate for design of treated water supply line from STP to dual flushing system in 600 seater Girls Hostel, 300 seater Multi-Purpose Boys Hostel, Mega Boys Hostel & Horticulture purpose (copy enclosed). The Executive Engineer (Civil), CPWD, Karnal submit the detailed cost estimate for an amount of Rs. 1,01,24,100/- vide letter No. 20(142)/PS/KCD/2018/ 4491 dated 06.12.2018 (copy enclosed). The CPWD also submitted the final bill of Rs. 167.40 lacs for installation of Sewage Treatment Plant only vide letter No. 54(NIT/KKR)/KCD/2018/972 dated 15.03.2018 (copy enclosed). The detailed-cumpreliminary cost estimate for design of treated water supply line from STP to the above said locations was put before the EAC meeting held on 29.1.2019 and 7.2.2019. After detailed deliberations the Committee considered and recommended that the approval for execution of this work be obtained from B&WC and subsequently FC & BOG. The expenditure against the cost estimate of Rs. 1,01,24,100/- will be met out from the savings of the work of STP i.e. Rs. 123.98 (318.08 -194.10) (Rs. 167.40 lacs final cost of STP + Rs. 26.70 lacs for maintenance/operation cost of STP as per agreement).

The Building & Works Committee may consider and approve the detailed-cum- preliminary cost estimate for an amount of Rs. 1,01,24,100/- for the work of design of treated waste water supply line from STP to dual flushing system in 600 seater Girls Hostel, 300 seater Multi-Purpose Boys Hostel, Mega boys hostel & Horticulture purpose in the NIT, Campus (including construction of storage tanks). The above said expenditure will be met out from the balance amount of the work of installation of Sewage Treatment Plant is available with the Institute.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

Minutes of the 15th meeting of the Building & Works Committee, National Institute of Technology, Kurukshetra held on 19th December, 2011 at 11.30 AM in the Board Room of the Institute.

The following were present:

Prof. Anand Mohan
Director,
National Institute of Technology
Kurukshetra

Chairman

2. Sh. Vijay Prakash Saha Mamta Bagicha, Morahabis, Ranchi-834008

Member

Prof. V.K. Arora
 Dean (Planning & Development)
 National Institute of Technology,
 Kurukshetra

Member

4. Er. Niranjan Singh
Superintending Engineer (Civil),
Chandigarh Central Circle, CPWD,
Chandigarh.

Member

Er. Vimal Kumar
 Superintending Engineering (Electrical),
 Chandigarh Electrical Central Circle, CPWD,
 Chandigarh.

Member

Prof. K.K. Singh
 Chairman (Estate, Const. & Elect. Mtc.),
 National Institute of Technology,
 Kurukshetra

Special Invitee

Dr. Ashwani Jain
 Prof. In-charge (Estate & Construction),
 National Institute of Technology,
 Kurukshetra.

Special Invitee

8. Dr. Ashwani Kumar Prof. In-charge (Elect. Mtc.), National Institute of Technology, Kurukshetra. Special Invitee

- utilized for the purpose of back-up supply of lifts and if need be the capacity of DG set of Guest House be increased to cater to the needs of Health Centre also.
- 15.7 To consider & approve the Rough Cost Estimate for construction of 2 No. Institute Main Gates at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for construction of 2 No. Institute Main Gates at a total cost of Rs. 82.99 lacs.

15.8 To consider & approve the Rough Cost Estimate for construction of 2 Nos. Parking at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for construction of 2 Nos. Parking at NIT, Kurukshetra at a cost of Rs. 94.21 lacs including works for electrical installations @ 12.5% of cost of civil works.

5.9 To consider & approve the Rough Cost Estimate for Sewage Treatment Plant (STP) at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for Sewage Treatment Plant (STP) of 1 MLD capacity at the cost of Rs. 318.08 lacs.

It was also desired that the coordinator of the newly proposed School of Renewable Energy of the Institute should approach Ministry of Renewable Energy, Govt. of India to explore the possibilities of utilization of biogas for generation of cooking gas.

1510 To consider & approve the Rough Cost Estimate for Cold Water Tanks & Supply Pipe line to the Solar Water Heating System Installed in the Hostel No. 1 to 9 Boys Hostel, Girls Hostel No. 1 & 2 at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for Cold Water Tanks & Supply Pipe line to the Solar Water Heating System Installed in the Boys Hostels No. 1 to 9 and Girls Hostel No. 1 & 2 of the Institute at the cost of Rs. 60.64 lacs.

5.11 To consider and approve the Rough Cost Estimate for Construction of 600 seater Girls Hostel (Multi-Storeyed framed structure, Ground Floor + 5) at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for construction of 600 seater Girls Hostel (Multi-Storeyed framed structure, Ground Floor + 5) at a cost of Rs. 48.99 crores including additional 5% for the provisions of green building i.e. provision of solar water heating system, solar lighting system etc.

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NATIONAL INSTITUTE OF TECHNOLOGY

(Under the Milliancy Stehker Claytes India) 3(USUNSMETRA - 136119)

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Date:29.03.2012 2017. 17.3

To report the follow-up action in the minutes of the 24% mapping of the 64% mapping of the 64% mapping the following the first on 12.03.2042

The extractor of the adulties of the 2-10 decling of the finance Commuted held on 10,00 %01% with a copy of the viscount awards notes relating to your Depth/Section and southerwith.

The action of the remarks may be taken and intimated to a via occion within a week for reporting the same to the FC7BOO in their next meeting.

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This early he created as Bost Organi.

Deputy Registra (Acs.

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Item 24.5: To approve the minutes of the 15th Meeting of the Building & Works Committee of National Institute of Technology, Kurukshetra held on 19.12.2011.

The Finance Committee approved the minutes of the 15th Meeting of the Building & Works Committee of National Institute of Technology, Kurukshetra held on 19.12.2011 and suggested that in respect of agenda item No.15.8 electricity installation cost be verified and to be reported in the next Finance Committee meeting.

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA-136119

No. NITK/BOG 27th/ 1839

Dated: 4|4|20|2

27.23 To consider and approve the minutes of the 24th meeting of the Finance Committee, National Institute of Technology, Kurukshetra held on 12.03.2012.

The Board of Governors of the Institute in their 27th meeting held on 13.03.2012 has decided as under:-

"The Board approved the minutes of the 24th meeting of the Finance Committee, National Institute of Technology, Kurukshetra held on 12.03.2012 as appended with the agenda item".

This is for your reference, record and further necessary action in the matter.

Encl: Agenda Item

Registrar(Incharge)

Oc

1. Deputy Registrar (Accounts)

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The Execution Eccionor (Civ.) Certifol Fablic Works Department Kampa Cerum, Division 878, Sublesh Colony Karear

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पदक पञ्

संख्या- 54(NIT)/क.के.मं/2014/ 🗦 🤊 । 🕻

दिनांक

ACT. KURUKSHE

सेवा में

M/s. Nitasha Constructions, Engineers & Govt. Contractors, 1063, Industrial Area, Phase-II,

Chandigarh

विषय :

Design supplying, Installation and Commissioning of 1MLD Capacity Sewerage Treatment based on MBBR (Moving Bed Bio-Reactor) technology i/c Operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis on Moving Bed Bio-Reactor (MBBR) technology at NIT Kurukshetra (Haryana).

संदर्भ :

इस कार्यालय के पत्र संख्या 54(NIT)/क.के.म/2355 दिनाक 17.07.2014 एवं आपके बैंक गारटी संख्या 02/14-15 दिनाक 31.07.2014.

महोदय,

Your item rate tender for the work mentioned above has been accepted on behalf of the President of India at your negotiated tendered amount of ₹ 1,62,05,077/- (Rupees One Crore Sixty Two Lacs Five Thousand & Seventy Seven Only) which works out to 4.68% (Four Decimal Six Eight Percent only) below against the estimated cost of ₹ 1,70,00,000/- (Rupees One Crore Seventy Lacs Only). Your negotiation letter No. Nil Dt. 11.7.2014 in which you have given general rebate @ 0.25% on quoted rates will form part of the agreement.

You are requested to attend this office to complete the formal agreement within seven days from the date of issue of this letter.

You are also requested to contact the Assistant Engineer, Kurukshetra Central Sub-Division. CPWD, Kurukshetra for taking possession of site and starting the work at once. Please note that the time allowed for carrying out the work is 240 days, shall be reckoned from

8.8.2014.

प्रतिलिपि :-

1.

मूल करार।

मिट्या (Estate) भिष्टियो मधीशीप के कार्यपालक अभियंता करनाल केन्द्रीय मंडल के लो. नि. वि. करनाल

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2. अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमंडल, के.लो.नि.वि, चण्डीगढ को सूचनार्थ प्रेषित। अन्य निदेशक, एन.आई.टी, कुरुक्षेत्र।

4. आयकर अधिकारी, आयंकर कार्यालय, कुरुक्षेत्र।

5. वरिष्ठ श्रम अधिकारी (उ.अ.), के.लो.नि.विं, केन्द्रीय सदन, चण्डीगढ।

सहायक अभियंता, कुरुक्षेत्र, केन्द्रीय उप-मंडल, कुरुक्षेत्र।।

७ - अ सहायक अभियंता(यो.)/कार्यालय अधीक्षक/रोकडियाँ, करनाल केन्द्रीय मंडल, करनाल।

10 ● श्रम प्रवर्तक अधिकारी (केन्द्रीय), कोठी न. 32, बैंक कालोनी, करनाल।

कार्यपोलक अभियंता



GOVERNMENT OF INDIA क्रेयरीय लीक निर्माण विभाग

Orthor 0184-01606 184 523,4950 namini i Beledesi tandak

ರಾಜಕೀತ ಹಳಗಿ ಎಂದ ಚರಿಸುವರ स्टब्स एक लेख्निकेट कार्यक्रम ११ना १५ अन्य अनुही । क्षेत्रस्थायः । ाप्योपण स्टार विकासमा स्टाउँया 307年109 - 1 万2003

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> National Indibute of Focurology. Ku naksa etza.

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Design supplying, Installation and Commissionin of Cvit.D. Calachy Seven Treatment based on MBBR (Maying Bed Bio-Repeter) 'colorology in Operation mounting new for 60 mounths after successful completion of detect liability period O months on turnkey back on Maving Red Blo-Reartor (CBBR) reduces (vol. 8)

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As you are around that the world has been completed and hended out the year departure with alterness and explictors flips office has not begined bullings announced fix $35.34.3/3 \pm 6$ • o fa3.245 - ja Ro. j.30,88,94 M →

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NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-135119

Worldes of the 24th - meeting of Guilding & Works Committee, National Institute of Technology, Surukshetra held on 06th March, 2016 at 11.00 and in the Board Room of Colden Jubilee Administrative Building of NIT, Kurukshetra.

The following were present

Suroksheha.

 Dr. Satish Kumar Chairman Director, National Instituté of Technology, Kurukshetra

2. Shri A K Singhal. Momber Director General (Rudned), C P VV D, Flat No. B 2012 Gaur Green Crty Vaibhay Khand Indireporant, Distr. Ghazabard-2020(2019)

3. Prof. D.K. Soni Member Desn (Planning & Cevelopment) National wish (ute of fechnology)

4. Er, R.K. Sab Member Superintending Engineer (Exectical) Chandigate Central Electrical Circle (CPWD), Sector 3 A, Chandigate

5. Sh. B.P.Singh Member Superintending Engineer, Chandigern Centre (Code CPWD 2rd Floor Nonchys Sacsin Sector 40, Chandigern

6 Prof. S. M. Gupta Special Invitod Prof. in charge (Estate & Construction)
National inclifute of Fearnelogy, Kouskanetra

Seniores of 24° to along & White Continuous (Aesting Colt), of 0007 (2010)

....

agency the CPWD will submit the line utilization conficate to the Institute and close the work.

- Item No.19.4. Regarding the estimate for provision of water propfing treatment of existing terrace/mad phasks and concreting/repair etc. in togething and non-leading houses was screamized jurity by CPVVD Officers and Institute Officers. It was decided to deter the stem for the time peing as per approval of the competent authority.
- Item No 19 10 Regarding the cent relates to the work of providing audio visual system in the Board Room of Colden Jupited Administrative Building including Jubited Half & Sentes Half. The work in the Board Room has been completed and the preparation of tendency of balance * work of Jubited half & Senate Half simprocess.
- Item No 19 11. Regarding the work of construction or peripheral load along the external boundary wait of the Institute for security and maintenance purpose has been kept puncing for the time being as per the decision of the 23 floulding & Works Committee. The revised destiusanized may be put up in the next meeting of H&WC.
- Item No. 20 5: Regarding the work of Installation of STP is completed and put to use. However, the compliance of detects/shortcomings already conveyed to CPWD will be made shortly. Further in was resolved that the CPWD will adamn the draft Instibillion STP within a week, so that the payment may be released and the work may be closed after record of final utilization certificate from CPWD integrating the work of water distribution network for resusal or heated water for Notice from and Tushing in te00 seater Grifs Hoste, and 300 seater Wills Primase Boys Hoste. It was also resolved that the CPWD will submit the cost estimate of the work on the has silon approved design. Accordingly, a separate A/A. A F/S for this work will be conveyed to CPWD other approval of the competent authority and the runds for this work will be utilized from the saying of the STP work.

tom No. 21 31. Regarding the work of 500 scaler Guls Hostels slands.* completed and has promised over and our roluse. The work of Fire

38 1970 B

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./CC 3501/ 293 2334

Dated: 09.05.2018

То

The Executive Engineer (Civil), CPWD, Karnal Central Division, NDRI Campus (Near State bank of India), Karnal-132001

Subject:

Regarding design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.

In reference to letter received from Assistant Engineer (Civil), CPWD, Kurukshetra Central Sub-Division, CPWD Kurukshetra vide letter No. 24(01)/NIT/KCSD/2017-18/site dated 21.11.2017, stated that Dr. Baldev Setia, Prof. Civil Engineering Department submitted the design vide letter No. CED/1256 dated 16.11.2017 for further necessary action. It is important to note that no action has been taken in this regard, so far.

You are requested to submit the detailed cost estimate along with working drawings. So that the further approval for the same may be obtained from the competent authority.

Prof. I/C (Estate & Construction)

Copy to:

- A.E. (Civil)
- 2. Faculty I/C (EM & T)
- 3. Chief Audit Executive, NITK
- 4. A.E. (Electrical), CPWD Camp office NIT, Kurukshetra
- 5. A.E. (Civil), CPWD Camp office NIT, Kurukshetra
- 6. The Superintending Engineer (Civil.), CPWD, Chandigarh Central Circle-I, Kendriya Sadan, Sector-9 A, Chandigarh
- 7. Chief Engineer (NZ-I), CPWD, Chandigarh Central Circle-I, Kendriya Sadan, Sector-9 A, Chandigarh
- 8. SS to Registrar for kind information of the Registrar
- 9. SS to Director for kind information of the Hon'ble Director





GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT



कार्यालय कार्यपालक अभियंता केन्द्रीय लोक निर्माण विभाग, एन.डी.आर.आई कैम्पस, नजदीक स्टैट बैंक आफ इंडिया, करनाल -132001

दरभाष : 0184-2250690 फैक्स : 0184-2250660

Office of the Executive Engineer, Central Public Works Department, NDRI Campus, Near State Bank of India, Karnal-132001. Phone: 0184-2250690

Fax: 0184-2250660 E-mail: cpwdckarnal@gmail.com

संख्या:- 20(142)/यो.शा./क.के.मं/2018/449)

सेवा में.

डीन (एस्टेट), / PROF ((E88) राष्ट्रीय प्रोद्योगिकी संस्थान,

कुरूक्षेत्र हरियाणा 🖳 पिन-136118

विषय :

Design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.

SH:- Treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel, Mega boys hostel and for horticulture purpose in the NIT

campus (including construction of storage tanks). at Kurukshetra.

महोदय.

उपरोक्त कार्य की प्रशासनिक स्वीकृति एवं व्यय मंजूरी जिसकी राशि लाख रूपये है आपके कार्यालय के पत्र सं0 CC/16 दिनांक 07.01.2013 द्वारा प्राप्त हुई थी। जिसके तहत Main कार्य 162.05 पर award किया गया था जोकि सम्पूर्ण हो चुका है। चुंकि अब आपके कार्यालय द्वारा बची हुई राशि से अतिरिक्त कार्य हेतु इस कार्यालय के पत्र सं० 2237 दिनांक 11.06.2018 द्वारा इस अनुमान को अधीक्षण अभियंता के कार्यालय से स्वीकृति हेतू भेजा गया था। अधीक्षण अभियंता, चण्डीगढ़ के कार्यालय पत्र सं० २४८३ दिनांक ०४.१२.२०१८ के अनुपालन में यह निर्देश दिया गया है कि संबंधित अनुमान पर होने वाले व्यय को बकाया राशि से करवाने के लिए ग्राहक विभाग से approval ली जाए। अतः विस्तृत प्रारम्भिक अनुमान जिसकी राशि रूपये 1,01,24,100/- है। आपके कार्यालय से व्यय स्वीकृति हेतु प्रेषित किया जाता है।

संलग्न :

उपरोक्त दो प्रतियों में।

भवदीय.

(इंजी. चरणजीत पसरीजा) कार्यपालक अभियन्ता करनाल केन्द्रीय मण्डल, के.लो.नि.वि, एन.डी.आर.आई कैम्पस, करनाल।

प्रतिलिपि :-

- 1. अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-१ए, केन्द्रीय को उनके पत्र सं0 23(4515)/W.III/2483 दिनांक सदन, चण्डीगढ पिन - 160009 ०४.12.2018 के संदर्भ में सूचनार्थ।
- 2. कार्यपालक अभियंता (वै.), करनाल केन्द्रीय वैद्युत मण्डल, के.लो.नि.वि. करनाल को
- 3. सहायक अभियंता, कुरूक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरूक्षेत्र को सूचनार्थ।

कार्यपालक अभियन्ता





GOVERNMENT OF INDIA

केन्द्रीय लोक निर्माण विभाग

CENTRAL PUBLIC WORKS DEPARTMENT

एन.डी.आर.आई. कैम्पस करनाल-132001

N.D.R.I. Campus Karnal – 132001



Preliminary Estimate

Name of Work:-

Design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus. SH:- Treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel, Mega boys hostel and for horticulture purpose in the NIT campus (including construction of storage tanks). at Kurukshetra.

Estimate Cost:-

Rs. 1,01,24,100/-

Client:-

NIT

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana Branch: B & R NAME OF WORK:

Division: KCD

Sub-Division: KCSD

Design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.

SH:- Treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel, Mega boys hostel and for horticulture purpose in the NIT campus (including construction of storage tanks). at Kurukshetra.

MAJOR HEAD

MINOR HEAD

DETAIL HEAD

This preliminary estimate framed by Er. Ashok Kumar, Assistant Engineer, Kurukshetra Central Sub Division and further processed by Er. Vipin Kumar Arora, Assistant Engineer (P), Karnal Central Division, CPWD, Karnal for Rs. 1,01,24,100/- i/c contingencies.

REPORT

History:

This detailed cum preliminary estimate amounting to Rs. 1,01,24,100/- i/c contingencies has been framed to cover probable cost of the above noted work for accord of approval by the Competent Authority. The A/A & E/S amounting to Rs. 318.18 Lacs of the above work was conveyed by deen (Estate) NIT Kurukshetra vide letter No. CC/16 Dated. 07.01.2013. for which tender was awarded amounting to Rs. 162.05 for C/o of 1 MLD capacity including operation & maintenance for 60 month after successful completion of defect liability period of 12 months. As per direction issued by SE/CCC vide their letter No. 23(4515)/W.III/2483 dated 04.12.2018 which it was directed to submit this detailed preliminary estimate directly to client accord of approval. Hence this estimate has been framed for accord of approval by the competent authority.

The design of structural details has been provided by NIT authorities vide their letter No. CED/1256 dated 16.11.2017 of Dr. Baldev Setia Professor NIT.

Design & Scope:

The following provisions have been made in this estimate based on structural detail provided by NIT Professor Dr. Baldev Setia vide their letter No. CED/1256 dated 16.11.2017

- 1. Providing and laying HDPE pipe of 160mm, 110mm, & 75mm dia for main line & branches from STP.
- Constructing 2 Nos RCC underground water storage tank to use treated water from STP for flushing in hostels.
- 3. Providing and laying GI pipes of dia 40mm, 50mm for flushing system in hostels.
- 4. Constructing masonry chamber 60x45x50 cm inside in brick work in cement mortar 1:4 for control and maintenance purpose.
- 5. Electrical installation as per EE(E), Schedule of Quantity dated 10.05.2018 (Attached)

Specification:

CPWD Specification 2009 Vol. I & II.

T & P:

Shall be arranged by the contractor.

WC Establishment:

Shall be met out of contingencies.

Land:

Available.

Rate:

DSR - 2016.

Method:

Through contract after call of tender.

Time:

06 Months (for execution)

Cost:

Rs. 1,01,24,100/- i/c contingencies.

Assistant Engineer (P) Karnal Central Division CPWD, Karnal

Executive Engineer Karnal Central Division CPWD, Karnal

GENERAL ABSTRACT

Name of Work:- Design of treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus.

SH:- Treated water supply line from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel, Mega boys hostel and for horticulture purpose in the NIT campus (including construction of storage tanks). at Kurukshetra.

SL. No	Description	Total Amount	Remarks
Α.	CIVIL WORK	8643887.00	
	TRICAL WORK (Executive Engineer rnal Vide Letter No. 20(38)/KCED/912 dated 10.05.2018)	1480142.00	
	TOTAL	10124029.00	;
	Say Rs.	1,01,24,100/-	
2)		May 1	
Assistant Eng	ineer (P)	Executive Engineer Karnal Central Divisio	
		CPWD, Karnal	

	Original Estim			- 				
Name	Disign of treated water supply line from STP to dual flushing sy	stem in 6	00 seater g	irls hostel, 30	0 seater multip	ourpose		
of	s hostel and for horticulture purpose in the campus.							
vork:-	SH:- Treated water supply line from STP to dual flushing system		_					
	hestel, Mega boys hostel and for horticulture purpose in the NI	T campus	(including	construction	of storage tan	ks). at		
	Kurukshetra.						_	
						DCD N	1	
SLNo	Description	Qty	Unit	Rate	Amount	DSR No.	<u> </u>	
	EÆRTH WORK					2	-	
1	Earth work in excavation by mechanical means (Hydraulic	İ						
	extavator)/manual means over areas (exceeding 30 cm in	[}			-		
	debth, 1.5 m in width as well as 10 sqm on plan) including	İ	1	1				
	getting out and disposal of excavated earth lead upto 50 m and							
	liftupto 1.5 m, as directed by Engineer-in-charge.					2.6	+-	
.1.1	Al kinds of soil	420	cum	125.95	52899.00	2.6.1	SR	
.2	Extravating trenches of required width for pipes, cables, etc	[1	1				
	induding excavation for sockets, and dressing of sides,			ļ				
	ramming of bottoms, depth upto 1.5 m, including getting out						1	
	the excavated soil, and then returning the soil as required, in							
	layers not exceeding 20 cm in depth, including consolidating							
	eath deposited layer by ramming, watering, etc. and disposing							
	of surplus excavated soil as directed, within a lead of 50 m:					2.1		
.2.1	All kinds of soil					2.10.1		
.2.1.1	Pires, cables etc. exceeding 80 mm dia. but not exceeding 300							
	mra dia	5150	metre	225.45	1161068.00	2.10.1.2	SF	
.3	Exta for excavating trenches for pipes, cables etc. in all kinds						1	
	of oil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate		-				١,	
	is ever corresponding basic item for depth upto 1.5 metre).	950	metre	127.00	120650.00	2.11		
.4	Extra for every additional lift of 1.5 m or part thereof in		metre	127.00	120030.00		-	
. 7	excavation / banking excavated or stacked materials.	i	1	-		2.26		
.4.1	All kinds of soil	420	cum	51.75	21735.00	2.26.1		
	Sull-Total	120			1356352.00		T	
	CONCRETE WORK		-			4		
.1	Providing and laying cement concrete in retaining walls, return							
	wals, walls (any thickness) including attached pilasters,							
	columns, piers, abutments, pillars, posts, struts, buttresses,							
	string or lacing courses, parapets, coping, bed blocks, anchor							
	blocks, plain window sills, fillets, sunken floor etc., up to floor	1						
	five level, excluding the cost of centering, shuttering and					4.2		
	6 - 11 - 1 - 1 - 1					4.2	+	
.1.1	1:5 10 (1 cement : 5 coarse sand (zone-III) : 10 graded stone	20	cum	5267.75	105355.00	4.2.8	S C F	
	agg egate 40 mm nominal size).	20	cum	5267.75	105355.00	4.2.0	120	
	Sub-Total	-			10222200	.5		
1	REI IFORCED CEMENT CONCRETE						-	
.1	Centering and shuttering including strutting, propping etc. and					5.9	9	
1 1	removal of form for all heights: Foundations, footings, bases of columns, etc. for mass	_					+	
.1.1		50	sqm	193.95	9698.00	5.9.1	LISI	
.1.2	Wass (any thickness) including attached pilasters, butteresses,							
	plin h and string courses etc.	490	sqm	378.60	185514.00	5.9.2	<u> S</u>	
.1.3	Suspended floors, roofs, landings, balconies and access	50	sqm	422.30	21115.00	5.9.3	3 51	
.1.4	Lintals, beams, plinth beams, girders, bressumers and		<u>-</u>	342.90	3429.00		1	
		10 25	sqm	467.85	11696.00	ļ-—— - —	-	
.1.5	Columns, Pillars, Piers, Abutments, Posts and Struts	25	sqm	407.83	11030.00	3.5.0	1-1	
.2	Sted reinforcement for R.C.C. work including straightening,							
	cutting, bending, placing in position and binding all complete					5.22	,	
	upta plinth level.					J.22	4	
.2.1	The mo-Mechanically Treated bars of grade Fe-500D or more.							

Page 1 of 3 -/65-

	*						
3.3	Providing and laying in position ready mixed M-25 grade		,				
	concrete for reinforced cement concrete work, using cement				İ	ļ	
	tent as per approved design mix, manufactured in fully						
	automatic batching plant and transported to site of work in						
	tansit mixer for all leads, having continuous agitated mixer,					• •	
Ì	nianufactured as per mix design of specified grade for						
	rainforced cement concrete work, including pumping of R.M.C.						
	from transit mixer to site of laying , excluding the cost of						
	centering, shuttering finishing and reinforcement, including						
	cost of admixtures in recommended proportions as per IS :			[
	9 03 to accelerate/ retard setting of concrete,improve						
	workability without impairing strength and durability as per						ŀ
	dection of the Engineer-in-charge. (Note :- Cement content						
	considered in this item is @ 330 kg/cum. Excess/less cement						5
	used as per design mix is payable/recoverable separately)	j					
						5.37	
3.3.1	All works upto plinth level	105	cum	6713.60	704928.00	5.37.1	SR
	Sup-Total				1827830.00		
4	WATER SUPPLY					18	
4.1	Providing and fixing G.I. pipes complete with G.I. fittings and						
	clamps, i/c cutting and making good the walls etc. INTERNAL			1			
ļ	WORK - EXPOSED ON WALL					18.1	
4.1.1	40 mm dia nominal bore	500	metre	394.15	197075.00	18.10.5	
4.1.2	50 mm dia nominal bore	150	metre	472.40	70860.00	18.10.6	SK
4.2	Providing and fixing G.I. pipes complete with G.I. fittings					•	
	induding trenching and refilling etc. External work					10.12	
				242.70	205620.00	18.12	
4.2.1	50 mm dia nominal bore	600	metre	342.70	205620.00	18.12.6	3K
4.3	Making connection of G.I. distribution branch with G.I. main of						
	following sizes by providing and fixing tee, including cutting					18.13	
4 2 1	and threading the pipe etc. complete: 50 to 80 mm nominal bore	4	each	771.20	3085.00	18.13.2	
4.3.1	Providing and fixing C.I. sluice valves (with cap) complete with	4	eacii	//1.20	3083.00	10.13.2	311
4.4	bots, nuts, rubber insertions etc. (the tail pieces if required						,
	will be paid separately):					18.31	
4.4.1	100 mm diameter .	<i>\$</i>				18.31.1	
4.4.1.1	Class I	11	each	3317.55	36493.00	18.31.1:1	
4.4.1.1	Constructing masonry Chamber 60x60x75 cm inside, in brick		eacii		30433.00	20.01.1.1	511
4.5	work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice						
	valve, with C.I. surface box 100mm top diameter, 160 mm						
	bottom diameter and 180 mm deep (inside) with chained lid						
	and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded						
	store aggregate 20mm nominal size) , i/c necessary						
	exc vation, foundation concrete 1:5:10 (1 cement : 5 fine sand						
	: 10 graded stone aggregate 40 mm nominal size) and inside						
	plastering with cement mortar 1:3 (1 cement : 3 coarse sand)						
	12 mm thick, finished with a floating coat of neat cement					-	
	complete as per standard design :						
	somplete as per standard design.					18.33	3
4.5.1	With common burnt clay F.P.S.(non modular) bricks of						
	class designation 7.5	11	each	6849.60	75346.00	18.33.1	. SR
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4.6	C	nstructing masonry Chamber 60x60x75, cm, inside in brick						
	V.	rk in cement mortar 1:4 (1 cement : 4 coarse sand) for fire						
	Ìŧ.	rants, with C.I. surface box 350x350 mm top and 165 mm						
	d	ep (inside) with chained lid and RCC top slab 1:2:4 mix (1				ļ		
ĺ	c	ment : 2 coarse sand : 4 graded stone aggregate 20 mm	·]
		minal size) , i/c necessary excavation, foundation concrete						
	1	5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40						
		m nominal size) and inside plastering with cement mortar 1:3						ļ
1	1 1	cement : 3 coarse sand) 12 mm thick, finished with a floating						İ
	1 2	at of neat cement complete as per standard design :				·	18.36	
4.6.1		th common burnt clay F.P.S.(non modular) bricks of						
	cl	ss designation 7.5	40	each	6529.70	261188.00	18.36.1	
4.7	Р	inting G.I. pipes and fittings with synthetic enamel white						
		int with two coats over a ready mixed priming coat, both of						
		proved quality for new work :]	18.38	
4.7.1	40	mm diameter pipe	500	metre	21.75	10875.00	18.38.5	SR
4.7:2	-	mm diameter pipe	100	metre	25.75	2575.00	18.38.6	SR ·
4.8		inting G.I. pipes and fittings with two coats of anti-corrosive						
		umastic paint of approved quality :	.]			1	18.4	
4.8,1	\rightarrow	mm diameter pipe	600	metre	14.80	8880.00	18.40.6	SR
4.9		pviding and filling sand of grading zone V or coarser grade,						;
		round the G.I. pipes in external work :	i				18.41	'
4.9.1	_	mm diameter pipe	600	metre	74.95	44970.00	18.41.6	SR
4.10	-	pviding and fixing G.I. Union in G.I. pipe including cutting and						-
		eading the pipe and making long screws etc. complete (New			•) `
	1 1	rk):	i				18.46	
4.10.1	_	mm nominal bore	4	each	384.90	1540.00	18.46.6	
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5	+	oviding & laying HDPE pipe conforming to IS: 4984:1995						
		and an analysis of a pripe of the second sec	İ		i			
5.1	10	0 mm dia pipe of class PE 63 & PN 4	1100	metre	811.32	892452.00	NSR	L
5.2		0 mm dia pipe of class PE 63 & PN-12.5	1150	metre	936.94	1077481.00	NSR	
5.3		mm dia pipe of class PE 63 & PN-16	2900	metre	516.32	1497328.00	NSR	-
		p-Total				3467261.00		<u> </u>
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्राची एका आद्यांसा कीट इंग्लेच वा अन्तीक विद्या प्रदेश केटीय जाक दिशाण दिवान, 506 सी एके एस आहे भाड़ दी ही, संस्थित स्थानकारन



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20 (38)/4/市道书/2019/ (1) 東京 িবাসে । ,10.2II $\varphi \in [-1]$ कियपालक अभिगन्ता (शित), करवाल केन्द्रीय मण्डल के की किर्दे एन की,आर आई कैमारा, ক্রনাল-132601 Detailed Estimate for the Work "Design of treated waste writer supply ्रिवय ः line from STP to Duaf flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the NFT campus Kurukshetra. (SH: Providing Pumpsets, Piping, Valves & ET. Panels etc.) eβé अस्पकः। कार्यालयः का पत्र संख्यः 1 20(142) / भौत्या / क के.म / 2018 / 1599-दिसाक 28 / 03 / 2018 क्ष्मेदश. २,४% ति पत्र को उपमुख्यालन में सफ्लोबस कार्य को नीव्यत यार्ज का विस्तृत अनुगाय रूट 1150 (५२) 👉 नेपार करके शामक धार्यालय में बेबिंग निया जाता है। अपने अनुरोध है कि इसे लिक्कि अर्थ के साथ सम्मिक्कि करके प्राहक विभाग को मिलवाने की लुपा करें। गरस्य उपलेखमन्द्रसार बनयोगिर्जुं का अपि यनता(वैद्यो करातन केदिया नेध्य भंडल, क्षेष्टलोटनिङ्गीतः, जरमान्यः might. अवोक्ति अधिक क्षेत्र (स. वारवायाः) से लीम वादवा भी भारत्य काला क्षेत्र में भी प्रतिकारिक काली काली 的复数形式 19 (1961-1964) A COM COM COM COM (1961-1964) A COM COM (1961-1964) ar. 967 j जार्य में राज्य के अंधित करन

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MINUTES OF THE MEETING OF ESTATE AFFAIRS COMMITTEE HELD ON 29.01.2019 and 7.02.2019 IN THE OFFICE OF DEAN (P&D) & CHAIRMAN (EAC) AT NIT, KURUKSHETRA.

A meeting of Estate Affairs Committee was held on 29.01.2019 at 3.30 PM and on 7.02.2019 at 11.30 AM in the office of Dean (P&D) to discuss the various issues related to Estate Section.

Following were present:

1.	Prof. A. Swarup, Dean (P&D)	Chairman
2.	Prof. S.M. Gupta, Prof. I/C(E&C)	Member
3.	Prof. K.K. Singh, Prof. CED	Member
4.	Dr. Anil Dahiya, Faculty I/C (H&L)	Member ■
5.	Dr. H.D. Chalak, Faculty I/C (S&C)	Member
6.	Dr. Aeidapu Mahesh, Faculty I/C (EM&T)	Member
7.	Sh. S.N. Kaushik, A.E (Civil)	Member & Convener
8.	Sh. Ashish Choudhury, A.E (Elect.)	Special Invitee

Following issues were discussed and resolved as under:

 To report the action taken on the minutes of the EAC meeting held on 06,09,2018.

The EAC noted the action taken on minutes of EAC meeting held on 06.09.2018. The report of action taken is enclosed.

2. To discuss the cost estimate for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments.

The work wise detailed cost estimate of Rs 1,29,66,532/- for providing & fixing of vitrified floor tiles, false ceiling, aluminium partitioning, kota stone chemical/acid resistance tiles and G.I. Sheet shade in the various departments prepared by the Estate Section was placed in the EAC meeting. After detailed discussion, it was resolved that the work of renovation of Sports Complex for an amount of Rs. 12,49,330/- be included in the above said work being similar nature of work. The Committee recommended that the total cost estimate of Rs. 1,42,15,862/-(1,29,66,532+12,49,330) for approval and to be put up before B&WC in its ensuing meeting.

3. To discuss the cost estimate for the provision of internal & external finishing i.e. distempering & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chawla) and Staff Quarters.

The cost estimate for the provision for finishing internal & external finishing i.e. distempering & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvary Bhawan & Kalpna Chawla) and Staff Quarters for an amount of Rs. 11,07,24,672/- was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting for approval.

4. To discuss regarding construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBA/MCA building at NIT, Kurukshetra.

The matter was discussed & it was resolved and recommended that this item be put up in the next B&WC for consideration & further approval of the competent authority. It was also resolved that the corridor be constructed as on similar to the existing corridor. It is also proposed that a channel gate be provided at the end of corridor for safety purpose. Further, appropriate provision may also be made for the lateral entry towards LHC & MBA/MCA Block through corridor.

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To discuss the cost estimate for design of treated water supply line .from STP to dual flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus received from Executive Engineer (Civil), CPWD Karnal vide letter No. 20(142)/PS/KCD/2018/4491 dated 06.12.2018

The cost estimate for an amount of Rs. 318,08 lacs for the work of Sewage Treatment Plant (STP) of 1 MLD capacity already approved by the B&WC and subsequently FC and BOG.

6

Accordingly the A/A & E/S for an amount of Rs. 318.08 lacs had been conveyed to CPWD for construction and installation of STP of 1 MLD capacity vide letter No. CC/16/93 dated 7/8/1/2013. The CPWD completed the above said work and submitted the final UC of Rs. 167.40 lacs for construction of Sewage Treatment Plant (STP) of 1 MLD capacity only vide letter No. 64(18)/KCD/2017/2018 dated 29.05.2018. Now the balance amount of Rs. 150.68 lacs (Rs. 318.08- Rs.167.40) may be utilized for the distribution system. Further the matter was discussed in the EAC meeting held on 19.04.2016 regarding the treated water supply line from STP for horticulture and flushing systems in new hostels at NIT, Kurukshetra. The decision of EAC duly approved by competent authority is reproduced below:

"A letter was received from the Prof. I/C (H&L) vide No. Nil dated 18.1.2016 and AE(Civil), CPWD Central Sub Division, KKR vide letter 'No. AE/NIT/KCSD/STR/2015-16/site dated 17.3.16 regarding Water Supply arrangement for irrigation purpose in the campus and treated water supply lying from STP for Horticulture/Flushing cisterns in new hostels at NIT, Kurukshetra. The matter was discussed in the EAC meeting it was resolved and recommended that the CPWD may be asked to submit the lay out plan of effluent supply from STP to 600 seater girls hostel and 300 seater multi-purpose boys hostel to be used for flushing purpose and watering in grounds and lawn of the Institute till the completion of STP "

In the light of the above decision of EAC the CPWD was requested to submit the lay out plan of effluent supply from STP for horticulture/flushing cisterns in 600 seater girls hostel, 300 seater multipurpose boys hostel. The CPWD submitted the lay out plan and detailed cost estimate of effluent supply from STP for flushing system in 600 seater girls hostel, 300 seater multipurpose boys hostel and for horticulture purpose in the campus for an amount of Rs. 1.01,24,100/-. The cost estimate was put up before EAC for consideration. After detailed deliberations the Committee considered and recommended that the approval for execution of this work from B&WC ausubsequently FC and BOG be obtained. The expenditure will be met out from the balance amount of Rs. 150.68 lacs of the work of construction of Sewage Treatment Plan (STP) as mentioned above.

To reconsideration the work of construction of shed for covering the sports complex stairs at NIT, Kurukshetra

The matter regarding construction of shed for covering the sports complex stairs at NIT, Kurukshetra was discussed. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 99,98,900/-. Further the EAC recommended that the case may be put up before FC/BOG.

7. To reconsideration the work of provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall towards west at NIT, Kurukshetra

The matter regarding reconsideration of the work for the provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall towards west at NIT, Kurukshetra was discussed. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs 27,60,400/- Further the EAC recommended that the case may be put 175- Quesc up before FC/BQG

Item No. 25.7 To consider and approve the detailed Cost Estimate for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

It is important to note that this cement concrete road was constructed about 30 years back. There is no side drainage on the either side of the road to dispose off the storm water during rains and water stagnates on the road being low lying area resulting into wide cracks, damaging and settlement of concrete surface at various places. Due to which it is very difficult to access for the students and staff to reach in the class rooms, labs and offices in the various departments. It is also important to note that the existing surface of concrete as deteriorated after carrying out the necessary repairs several times. It is relevant to mention here that this is the main road to access in the various Department, Library and Seminar Hall. So this cement concrete road has repaired from time to time being necessity. The competent authority of the Institute also visited the site and desired that the existing damaged Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department and road between Jubilee Hall & Library is required to be strengthening including arrangement of side drainage along the road towards old Administrative Block, Civil and Mechanical Engineering Department etc. and cross drainage from ECE Department, Library by providing RCC hume pipes NP-2 and road gully and Jubilee Hall etc. chamber. During the visit it was also decided that the existing damaged CC pavement /road be taken into account as base course which saves the cost of the work.

Accordingly, a letter sent to Executive Engineer (Civil), CPWD, Karnal vide No. EO/780/5971 dated 12.12.2018 for providing to submit the detailed cost estimate. The Executive Engineer (Civil), CPWD submitted the cost estimate for an amount of Rs. 87,13,400/- vide letter No. 20(142)/PS/KCD/2018/4720 dated

27.12.2018 excluding the cost of base course for the above said work with the following provisions:

- 1. Excavating trenches of required width for pipes, cables, etc including excavation for sockets.
- 2. Providing and laying in position cement concrete of specified grade 1:5:10.
- 3. Providing and laying C.C. pavement with ready mixed concrete from the batching plant.
- 4. Cutting of groove of size 10mm x 50mm in vacuum dewatered concrete.

The same was put up before the EAC meeting held on 29.01.2019 and 7.02.2019. The recommendations of the EAC duly approved by the competent authority are reproduced below:

"The cost estimate has been received from Executive Engineer (Civil), CPWD, Karnal vide letter No. 20(142)/PS/KCD/2018/4720 dated 27.12.2018 for an amount of Rs. 87,13,400/- for the strengthening of existing Cement concrete pavement/road from North /East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting."

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 87,13,400/- for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

G 8 "

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./ E0/780 5971

Dated /2.12.2018

To

The Executive Engineer (Civil), CPWD, NDRI Campus (Near State Bank of India), Karnal-132001

Subject:

To submit the detailed cost estimate for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department and road between Jubilee Hall & Library including arrangement of drainage of . storm water at NIT, Kurukshetra.

The competent authority of the Institute has desired for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department, road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

It is therefore, requested to submit the detailed cost estimate for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department, road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra, so that the same may be got approved from the B&WC in its ensuing meeting, which is going to be held very shortly.

This may be treated as most urgent.

Prof. I/C (Estate & Construction)

Copy to:

- 1. A.E. (Civil)
- 2. A.E. (Civil), CPWD NIT Campus
- 3. Dean (P&D) for kind information please
- 4. Superintending Engineer (Civil), CPWD Chandigarh Central Circle-I, Kendriya Sadan, Sector-9A, Chandigarh
- 5. SS to Registrar for kind information of the Registrar
- 6. SS to Director for kind information of the Hon'ble Director





GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT



कार्यालय कार्यपालक अभियंता केन्द्रीय लोक निर्माण विभाग, एन.डी.आर.आई कैम्पस, नजदीक स्टैट बैंक आफ इंडिया, करनाल -132001

दूरभाष : 0184-2250690 फैक्स : 0184-2250660 Office of the Executive Engineer, Central Public Works Department, NDRI Campus, Near State Bank of India,

Karnal-132001. Phone: 0184-2250690 Fax: 0184-2250660

E-mail: cpwdckarnal@gmail.com

संख्या:- 20(142)/यो.शा./क.के.मं/2018/4720

दिनांक 27-12-2018

सेवा में.

डीर्न (एस्टेट), राष्ट्रीय प्रोद्योगिकी संस्थान, कुरुक्षेत्र हरियाणा।

पिन-136118

-

विषय :

Strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MC/ department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

संदर्भ :

आपका पत्र सं० EO/780/5971 दिनांक 12.12.2018.

महोदय,

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन जिसकी लागत रूपरे 87,13,400/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूर्र प्राप्त करने हेतू संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाय गया है। अतः आपसे अनुरोध है कि कार्य की मंजुरी भेजते समय "लेखा शीर्ष जिसके अतंर्गत व्यय किया जाना है, सूचित किया जाए तथा अनुमोदित प्राक्कलन की एक प्रति भी संलग्न करें।

भवदीय,

संलग्न :

उपरोक्त दो प्रतियों में।

(इंजी. चरणजीत प्रसरीजा) कार्यपालक अभियन्ता करनाल केन्द्रीय मण्डल, के.लो.नि.वि, एन.डी.आर.आई कैम्पस, करनाल।

प्रतिलिपि :-

1. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को उनके पः सं० 24(8)/A.E.K./2018/284 दिनांक 21.12.2018 के संदर्भ में सूचनार्थ।

कार्यपालक अभियन्ता



IInd Copy

GOVERNMENT OF INDIA

केन्द्रीय लोक निर्माण विभाग

CENTRAL PUBLIC WORKS DEPARTMENT

एन.डी.आर.आई. कैम्पस करनाल-132001

N.D.R.I. Campus Karnal – 132001



Preliminary Estimate

Name of Work:- Strengthening of existing Cement Concrete

pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at

NIT, Kurukshetra.

Estimate Cost:- Rs. 87,13,400/-

एक कदम स्वच्छता की ओर

Client:- NIT Kurukshetra

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana Branch: B & R Division: KCD

Sub-Division: KCSD

NAME OF WORK:

Strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubiles Hall & Library including arrangement of dminage of

storm water at NIT, Kurukshetra.

 		
MAJOR HEAD	MINOR HEAD	DETAIL HEAD
		To produce the product of the produc

This preliminary estimate framed by Er. Ashok Kumar, Assistant Engineer, Kurusshotra Control Sub Division and further processed by Er. Vipin Kumar Aiora, Assistant Engineer (P) Karna Central Division, CPWD, Karna for Rs. 87,13,400/- t/c contingencies

History:

This preliminary estimate amounting to Rs. 37,13.400/- vc continuencies has been framed to cover the probable cost of the above mentioned work for accord of A/A & E/S by the competent authority. The requisition for the above cited work has been received from client department vide their office letter No. EO:750/5971 dated 12.17.2018. Hence this estimate has been framed

Design & Scope:

The following provisions have been made in this estimate: -

Sxcavating trenches of required width for pipes, cubtes, etc. including expansion for seckets.

Providing and laying in position carrient concrete of specified grade 1:5 10.

 Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant

Culting of groove of size 10mm x 50mm in vaccum dewatered concrete.

Specification:

CPWD Specification 2009 Vol. I & it.

T & P:

Shall be arranged by the contractor.

WC <u>Establishmenti</u>

Shall be met out of contingencies

Land:

Available with client doportment.

Rate:

As per DSR - 2015 rates.

Method:

Through contract after call of lender.

Time:

04 Months (After receipt of A/A & E/S)

Cost:

Rol 87 13,4007- i/o contingencies

Nate:

The cost and time of the project is liable to revision due to probable escalation in cost of construction about from reasons such as change in scope, area, design and specifications etc., if so desired by the client at a later date. The execution of the work will depend upon the receipt of the funds through authorization or through a location well in time during the financial years.

Assistant Engineer (P) Kamai Central Division CPWD, Karnal

Executive Engineer Karnal Control Division CPWD, Karnal

Appendix-50 (Reference-Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

To

डीन (एस्टेट), राष्ट्रीय प्रोद्योगिकी संस्थान, कुरुक्षेत्र हरियाणा। पिन-136118

Sub :- Execution of Deposit works.

Strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following:

- Full estimated cost of work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- 2. The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition /disposal of existing buildings/structures.
- 3. CPWD does not bind itself to complete the work within the estimated cost. If additional fund are required, the same will have to be provided by the client department. Necessary revised estimate will be submitted as and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- 5. Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- 7. The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in -a) providing site for labour huts for the contractor's labour free of cost, b) providing free access to contractor's material and labour to the site of work. c) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity boards/authority.
- 9. CPWD may at its discretion allow the clients to deposit the funds in installments. In such case 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In case where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,

Executive Engineer, Karnal Central Division, CPWD, NDRI Campus, KARNAL-132001 (Hry.)

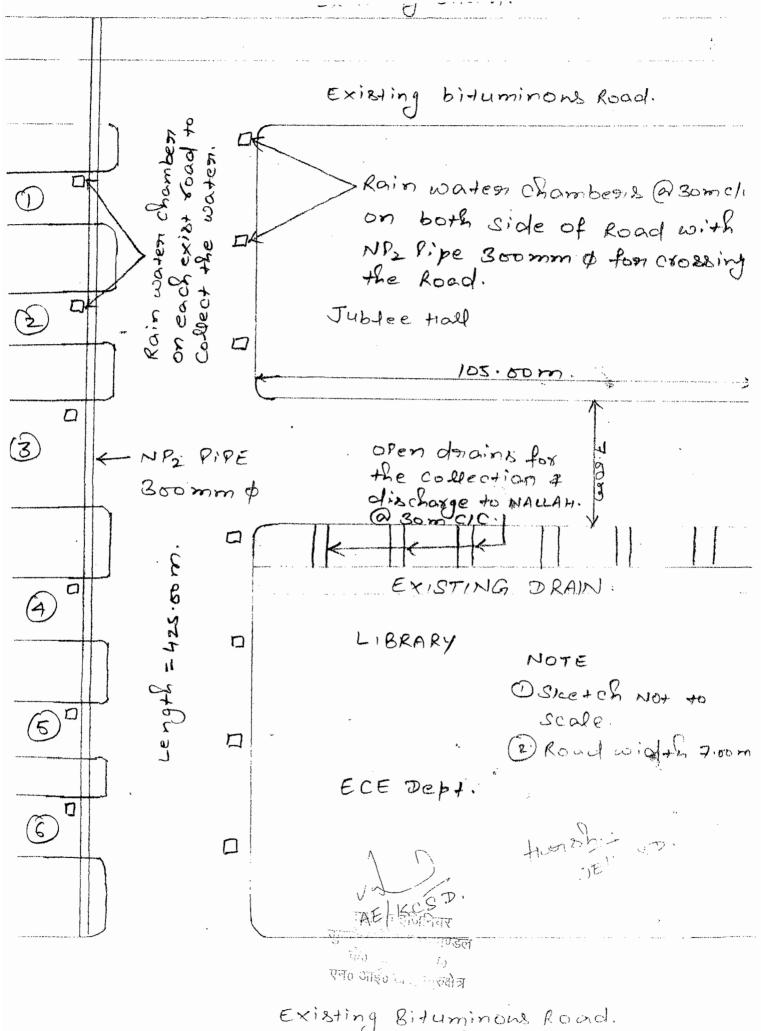
Preliminary Estimate

Name of vrk:-

Strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

SL. No.	DSR No.	Description	Qty	Unit	Rate	Amount
1	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:				
1.1	2.10.1	All kinds of soil				
		Pipes, cables etc. exceeding 80 mm dia. but not	· , · · · · ·			· · · · · · · · · · · · · · · · · · ·
	2.10.1.2	exceeding 300 mm dia	530	metre	225.45	119489.0
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:	300	meac	220.40	-
2.1	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	1	cum	5924.65	5925.00
2.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded	4.5		4000.05	400040.00
3	6.12	stone aggregate 40 mm nominal size).	46	cum	4209.05	193616.00
ى 		Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
3.1	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	15	sqm	593.50	8903.00
4	13.4	12 mm cement plaster of mix :				
4.1	13.4.2	1:6 (1 cement: 6 coarse sand)	21	sqm	168.25	3533.00
5	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
5.1		Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	44	cum	997.05	43870.00
6	15.6	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	44	cum	120.55	5304.00
7	16.46	Providing and laying in position bitumen hot sealing compound for expansion joints etc.				
7.1	16.46.1	Using grade 'A' sealing compound.	12550	Per cm depth per cm width per m	0.00	00040.00
8	16.75	Providing and laying C.C. pavement of mix M-25 with	13550	length	2.20	29810.00
)	.5.70	ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineerin-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).				

9	16.82	Taking out existing kerb stones of all types from footpath/central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	1275	metre	16.05	20464.00
10	16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-incharge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)		metre	48.90	62348.00
11	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
11.1	19.6.4	300 mm dia. R.C.C. pipe	530	metre	518.55	274832.00
12	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement: 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete:				<u>-</u>
12.1	19.21.2	For pipes 250 to 300 mm diameter	2	each	463.45	927.00
13	19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1.4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C horizontal grating with frame and vertical grating complete as per standard design :		2.6011		521.00
13.1	19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	36	each	7522.15	270797.00
14	16 504	Cutting of groove of size 10mm x 50mm in vaccum	30	Cacii	1022.10	210101.00
1-4	10.004	dewatered concrete for dummy joint by groove cutting machine as per direction of Engineer-in-Charge. TOTAL	2706.2	metre	132.25	357895.00 7618648.00
		Add Cost Index @3.92% (Except Item No. 14 Total				7010040.00
		72,60,753.00)	3.92%			284622.00
		TOTAL		· .=	(A)	7903270.00
		Add Contingencies on (A) @	5.00%			395164.00
		Add Labour Cess on (A) @	1.00%			79033.00
		Add EPF & ESIC on (A) @	4.250%			335889.00
		Grand Total				8713356.00
		·			Say Rs.	87,13,400/-
					8	
					√	
	d				in the	
	Assistan	t Engineer (P)		Exec	utive Engi	neer
					l Central Di	
					PWD, Karn	



Existing Bituminous Road. -1858. To reconsideration the work of provision of shed for parking only for four wheelers in the existing parking near NIT Market Complex.

The matter regarding reconsideration of the provision of access to Golder Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall towards west at NIT, Kurukshetra was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 44,69,700/-. Further the EAC recommended that the case may be put up before FC/BOG.

To discuss the cost estimate for strengthening of existing Cement concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK

The cost estimate has been received from Executive Engineer (Civil) CPWD, Karnal vide letter No. 20(142)/PS/KCD/2018/4720 dated 27.12.2018 for an amount of Rs. 87;13,400/- for the strengthening of existing Cement concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

10 To discuss regarding re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan).

The cost estimate has been received from Executive Engineer, (P), Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/178 dated 24.01.2019 for an amount of Rs. 1,11,15,900/- for the work of re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan) was discussed The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

11 To discuss regarding widening of various roads in the Institute

- Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

The cost estimate has been received from Executive Engineer (P), Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/185 dated 24.01.2019 for an amount of Rs. 2,22,99,500/- for the above said works was discussed. The EAC resolved and recommended that in order to running footpath alongwith this road necessary construction for covering the drainage and widening of road may be planned as per site requirement and the case may be put up before B&WC in its ensuing meeting.

12 To discuss the cost estimate for widening and renovation of existing Lawn Tennis Court in the Sports Complex.

The cost estimate for amounting to Rs. 24,93,400/- for the work of widening and renovation of existing Lawn Tennis Court in the Sports Complex was discussed. The EAC resolved and recommended that the cost estimate be put up before B&WC in its ensuing meeting.

13 To discuss regarding construction of Gymnasium Hall in the Sports Complex.

The matter regarding construction of Gymnasium Hall in the Sports Complex was discussed. The requirement received from Physical Education & Sports Section has already been conveyed to CPWD vide letter No CC/3539/03/45 dated 02.01.2019 for the architectural drawing. The matter may be discussed in the next meeting of EAC after receiving the architectural drawings from CPWD.

rings from CPWD 2 8-186-1

Item No. 25.8 To consider and approve the detailed Cost Estimate for recarpeting of various roads in the Institutional buildings and Hostel buildings.

It is important to note that the resurfacing/re-carpeting is required after five years as per norms and is being carried out in a phased manner on the various existing roads in the Academic/Institutional area & Hostel area (phase-I) and residential area (phase-II). The last resurfacing was executed in the year 2011 for a length of about 4500 mtr. on the various roads lying in the Academic/Institutional and Hostel area (phase-I). However, on the occasion of convocation held in the year 2013 resurfacing was carried out on a few roads for a length of about 2500 mtr. including widening as per requirement at that time in the Academic/Institutional area only. Similarly, in phase-II the resurfacing was executed on the existing road lying in the staff quarters for a length of about 3500 mtr. A period of more than five years has already been passed after the surfacing of the roads lying in the Academic/Institutional and Hostel area. As per norms it has become due and the base course has started its deterioration due to non-execution of carpeting/resurfacing which is mandatory required after five years as per norms being periodical maintenance. Further, it is also relevant to mention here that the roads were crossed by digging at various locations for carrying cables for installation of HT/LT sub-station and feeder pillar in the residential area. The roads in Academic/Institutional area and hostels are also required repair of crossing points, pot holes and settled portion at various locations. In the light of the above facts these roads required re-surfacing in Academic area and Hostels.

Further, the competent authority of the Institute has desired for recarpeting of various roads in the Institutional buildings and Hostel buildings. Accordingly, a letter sent to Executive Engineer (Civil), CPWD, Karnal vide No. EO/778/5969 dated 12.12.2018 for providing the detailed cost estimate for re-carpeting of various roads in the Institutional buildings and Hostel buildings.

The Superintending Engineer (P), CPWD, Chandigarh submitted the cost estimate vide letter No. CCC/23(4514)W-III/2018-19/178 dated 24.01.2019 for an

amount of Rs. 1,11,15,900/- for the above said work with the following provisions:

- 1. Providing and applying tack coat using hot straight run bitumen of grade VG-10
- 2. Providing and laying bitumen penetration Macadam 50mm thick with hard stone aggregate.
- 3. Providing and laying bituminous concrete 40mm thick using crushed stone aggregates with bitumen of grade VG-30.
- 4. Providing and applying 2.5mm thick road marking strips (retro-reflective).
- 5. Laying of old kerb stone as well as new kerb stone partly.
- 6. Laying of kerb channels with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 25 mm thick).

The same was put up before the EAC meeting held on 29.01.2019 and 07.02.2019. The recommendations of the EAC duly approved by the competent authority are reproduced below:

"The cost estimate has been received from Executive Engineer(P), Chandigarh Central Circle, CPWD vide letter No. CCC/23(4515)/W-III/2018-19/178 dated 24.01.2019 for an amount of Rs. 1,11,15,900/- for the work or re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Paln) was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting."

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 1,11,15,900/- for providing and laying re-carpeting on various roads in the Academic/Institutional area and Hostel area in a phased manner at NIT, Kurukshetra

NATIONAL INSTITUTE OF TECHNOLOGY. KURUKSEETRA

Dated 18 ng 2018

মান্ত্ৰালয় টেন্টাল বহিন্দ্ৰহল છો. હો કિંદુ (હું વક્ષમમીશ**ણ** હું કહે. ક

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Subject:

In submit the detailed cost estimate for re-cargeting of various reads in the Institutional buildings and Hostel buildings at NIT, Kurokahotra. (الأجامد الطحولية: الإنجامة الكانون)

The competent suit obey of the institute has desired for relescoping of ... various roads in the Institutional buildings and itestal buildings in the Institute

It is therefore requestion to submarthly dotalled local estimate for recarpainty of various reads in the moduluting building arm Hostel buildings in the Institute so skall the same may be got approved from the B&WC in its ensuing meeting, which is going to be held very shiply.

This may be invaled as most expert

Staff Not (Estate & Construction)

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- A.E. (Civit) ICPWD NIT Can pus
- Dean (P&C) for kind information aguse
- Supprimending Engineer (Civil), CPVO Chandigarh Cantral Circle-L* Kenduya Sartan, Sector-9A, Chandigarh
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 - SS to Director for kind information of the Horrible Director.





केन्द्रीय लोक निर्माण विभाग

क्यें शिक्ष अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमण्डल,

व व व वि केन्द्रीय सदन, दूसरा तल, सैक्टर 9-ए, चण्डीगढ-160009

- 14 17 47 /23(4515)W-III/2018-19 / 17-8

दिनांक: 24/1/19

The professor I/C (Estate & Construction),

National Institute of Technologhy,

Kurukshetra.

ৰিষ্ট্ৰ Re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra.

उपरोक्त कार्य का 1,11,15,900/- रूपये राशि का प्रारम्भिक अनुमान दो प्रतियों में सिल्एन किया जाता है। इस कार्य के अनुमान हेतु आपका आवेदन पत्र संख्या EO/778/5969 दिनांक 12.12.2018 द्वारा भेजा गया था। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में किंठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हैड ऑफ एकांउट) का भी उल्लेख करते की कृपा करें।

संलग्नः अनुमान (दो प्रतियां)

भवदीय

कार्यपालक अभियन्ता (यो.), चण्डीगढ़ केन्द्रीय परिमण्डल के.लो.नि.वि., चण्डीगढ़।

प्रातीलापः-

- ा. मुख्य अभियंता (उ.अ.-1), के लो नि वि., चण्डीगढ को सूचनार्थ प्रेषित है।
- अधीक्षण अभियंता (वैद्युत), चण्डीगढ़ केन्द्रीय वैद्युत परिमण्डल , के.लो.नि.वि., केन्द्रीय सदन, सैक्टर-9 ए, चण्डीगढ़ को सूचनार्थ प्रेषित है।
- 3. कार्यपालक अभियंता,करनाल केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को अनुमान की प्रति सहित।
- 4. कार्यपालक अभियंता (वैद्युत), केन्द्रीय मण्डल, के लो नि वि., करनाल को सूचनार्थ प्रेषित है।

कार्यपालक अभियन्ता (यो.)

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GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

Emete Haryana Rameda 6 8 R AMEE OF WORK: Division: KCD

Circle: Chandigarh Central Cicle

Re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurokshetra.

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MAJOR HEAD	MINOR HEAD	DETAIL HEAD	1
AMPAUS DEAD	I MINOX HEAD	(DETAIL NEAD	1

This preliminary estimate framed by Er. C.S. Pasrija, Executive Engineer, Karnal Central Division, and Turther processed by Er. J.K.Goel, Executive Engineer (P), Chandigarly Central Carde, CPV/IC Chandigarly for Rs. 1,11,45,900/- jacquaring-pages.

This pre-immary estimate amounting to Rs. 1,11,15,900/4 //c contingencies has been framed. La cover the probable cost of the scove mentioned work for about of A/A. & E/S by the competent authority. The requisition for the above olde work has been received from client department vida their office letter No. EC/778/5965 dated 12, 12,2018. Hence to be collimate has been framed.

A STATE OF THE PORT OF THE PROPERTY OF THE PROPERTY OF THE PORT OF

The following provisions have been made in this estimate for Re-carpeting of various existing roads in the institutional & hostal buildings:

- Providing and applying fack cost using not straight run brumen of grade VG = 10.
- 2. Providing and laying Bilumen Penetration Macedom 90 ram thick with here stone aggregate.
- Providing and laying Scondiscs concrete 40 mm. Inick using crushed stone aggregates with bitumen of grade VG-30.
- Providing and applying 2.5 mm thick road marking strips (retro-reflective).
- Eaying of old kerb stone as well as new kerb stone parity.
- Laying of Ferbichanne's will centent concrete 1:2 4 (1 dement : 2 coarse sangl. 4 standaggregate 25 mm thick)

CPWD Specification 2009 Vol 1 & II.

Shall be arranged by the contractor.

Shall be niet out all conlingencies.

Available with client department

As per DSR = 2016 rates.

Through portroic after call of tender

02 Months (After receipt of AIA 8 8/8)

Rs. 1,51,55.500/-35 carlingencies.

The cost and time of the project is liable to revision due to prohable estalation in cost of constitution apart from reasons such as change in scope, area, design and sportifications etc., if so desired by the client at a later data. The execution of the work will depend upon the most of the funds through authorization of through although a time during the mands lyears.

ಕ್ಷಾಬ್ಯಾಗ್ನಲ್ಲಿ __ ಸಿಪಿಕಿಟರ್ ದಿಶ್ಚರ್ಚದ (Py-) ವಿಸಾನ್ಯಚಿಗೆ Central Choo ರನ್ನಳರು, Chandigath

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Executive Engliteer (P). Chancigam Cantral Crais, CHMU, Chandigam

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Personal Control	Preliminary Estimate				
Washington	kt- Re-carpeting of various made in the institut etra.	ianal beril	dings a	nd Hostri 	buildings at
DSR No.	Cescription	Qty.	Unit	Rate	Amount
24.1	Providing and laying in position demand concrete of specified grade excluding the cost of containing and shultering - All work up to pinth level (concrete to be laid.)	1	; 		
600 k./ 15./1.3	n kerbichenne's sinng kerbislane en rosdierige) "1 2'4 (1 cement 1. 3 coarso sand (zone III) : 4 graded	<u> </u>		<u>-</u>	
136t	stond aggregate 20 mm nommat size). Painting with synthetic enamet public of approved brand	18.00	CII.T	<u>548195</u>	<u>49</u> 675 <u>ço</u>
43.61.1	and manufacture to give on even shade . [while more coals on new work]	13 <u>36,</u> 181	seni	78 40	104742 00
	Providing and applying tack over using hot straight run bilitation of grade VG - 10, including healing the bilitation, spraying the bilitation with medicality coerated spray unit filled on situation bolish cleaning and proparing the existing road syntace as per specifications:			·-	
360.2	On billunimous surface @ 0.50 Kg Lson Providing and laying Dillumen Penetration Macadam with land stone aggregate of quality, size and grading as		ediu.	27.52	71060000
	Specified, with browner of suitable panetration grade, including required key aggregate as specified, spreading coarso aggregate with the help of sof projekted traper tail mounted aggregate spreader and aggregate browner.				İ
	by a pressure distributor and then screeding key aggregate with the help of aggregate spreader complete, including on solidation with martiroler of minimum is to 10 tonne departy to achieve specified values of compaction and surface accuracy.		,		
35.1	For 50mm compacted thickness using coarse eggrégate of size 50-20 mini graded (§ 0.60 rum per 10 sqn Yay eggrégato of a zei 12.5 mini graded (§ 0.15 mini per 10 sqn With paving aspher, grade VG + 10 (§ 50 kg/ 10)				
	sem Providing and laying Dilumineus concerns using crushed stone aggragatos of specified grading, promised with	1013 (3)	equr	342.05	6550 <u>26</u> 00
	bitaminous cinder and little transporting the het mix to work site by trapers, laying with paven finisher equiped with electronic sensen to the required grade, level and attended and rating with a more whoree, vibratery and tandem retiers to uphitical the desired compaction and density as per specification, complete and as per			-	
##4 (E.57.)	directions of Engineer-in-Chargo 40/50 mm companied thickness with biguinen of grade VC-30 (0,6 5% (percentage by worth) of total mix) and fine filer (8,8%) (percentage by weight of Aggregate) prepared in Batch Type Hor Mix Plant of 100-120 T891				
	csteack	980 mi	curt	7 <u>863.85</u>	7548298 00
	Providing and applying 2.5 pm. (high road marking ships (retro- reflective) of specified shade/ colour using hot, diermodissic implemations from the bried with perfind the modiasic paint application that the bried with perfind side, glass beads dispensed propone rank heater and stockinghod heater driver by expendence operator or mad seriace name og oost of material.				•

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<u> </u>						
34.	DSR No.	Description	Qty.	Unit	Rate	Amount
100 S		pager, 1879, cleaning the road surface of all diff, seals,				
t]	oil greate and locage material ele complete as 900	:		:	
1]	direction of Engineer-in-change and eccomance with				
15		epolicaule specifications.	1455 CH	sami	391.23	989889 DO
$\sqrt{a}T_{1}$.	10.60	Providing and laying at or year ground level fectory where		T		
		[kerb stone of M-25 grade dement controlle in prisiden to	l		·	
4		ill enequired fine, level and curvature, jointed with comort			_	
5	Ì	morter 1.3 (1 coment: 3 coarse sand), polyding making	l .	!		
		points with or without grouves (Inickness of joints except				
1 000		all sharp corve shall not to more than 5mm), including				!
		making (Iralna)e operang wherever required complete				;
	İ	ola les per direction of Engineer-in-charge (Vengto of				
X4.1	•	finished korb adding shall be measured for payment)				
		(Propert C.C. Kent grone shall be auproved by Engineer				
- 2	<u> </u>	snicharga),	25.00	cum	5012.65	175443 DO
10.50	16.77	Scarriying the existing ortanicous road surface to a depth		!		
		of 50 mg and Jisposal of Starified material within all lifts	!			
	<u>;</u>	and Seart upto 19m (by modionical means).	1915.00	sgm	3.60	6894 CO
	}46.82	Taking out existing kern stones of all types from foulpully	1913.00	3411	.5 (11.7	DA1.14 1.17
±00	V ■0 02	central verge, including ramoval of morter etc., deposal				
3.0	<u>.</u>	of unserviceable material to the dumping ground, for				!
1.06	Ñ	which payment shall be intade separately and stacking of				
প্রার্		somiceable malenal within 50 metre lead as per director.				
	ħ.	of Engineer-in-Charge.	3340 00	metre ,	16 (%)	5/407,00
887.5	2 1 6.95	Laying at or near ground level old kerb stones of all types				
9	4.	in position to the roculted trie, level and curvature,				ŀ
4	()	jointed with bettent (notice 1:5 (1 dement : 2 cowise				
经营款	%	send), including making Johls with as without grooves			-	·
	Ž.,	(thickness of joints, except at sharp curve, shall not be				
웷貅	<u>)</u>	rours than 6 mm) including making drainage opening				·
100	3 0	wherever mountain eld complete as per direction of				
海海		Engineer in charge (), roight of ficished keroledging shall				
	. <u>.</u>	be introduced for dayment; (OM kero stones shall be)			' I	
	į.: 	supplied by the appartment free of cost)		. i		
M20.62	<u> </u>	·	2175.00	<u>αeli∈</u> .	48 90	100353-00
الموا دين	<u>** </u>	FOTAL				10029910.00
77.42	<u>.</u>	ApJ Cost index @3 92% on all HSR items	3.92%			393172.00
1300	y:	TOTAL			(A)	\$D\$20082.00
	<u>:</u>	Add Contingencies on (A) @		(Mini S		
73,000			3.00%	Lzoj		9000000.00
(000-1	<u> </u>	Add Labour Cess (o) (A) នាំ		<u></u>		104231,00
E.SKO	<u>: </u>	Add FPF & ESIC on (A) @	0 B5%			89595.00
		Grand Total				11115909.00
				Say Rs.	1,11,15,50	0 <i>i</i> -
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Executive Engineeral?)
Chandigath Central Circle,
CPWO, Chandigath

் சால்களு estimate amounting to Ru.111 (6.000 - (Ruppes Gne urbre eleven too fillron thousand pine hard ed ் எல்றுக்க hereby submitted for accord of AVA & 879 from tampelent authority.

> Superintending Engineer, Chandigarli Gerilial Circle CEVIC Chandigarli

To reconsideration the work of provision of shed for parking only fo four wheelers in the existing parking near NIT Market Complex.

The matter regarding reconsideration of the provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheeless along the inside boundary wall towards west at NIT, Kurukshetra was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 44,69,700/-. Further the EAC recommended that the case may be put up before FC/BOG.

To discuss the cost estimate for strengthening of existing Cemen concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK

The cost estimate has been received from Executive Engineer (Civil) CPWD, Karnal videlletter No. 20(142)/PS/KCD/2018/4720 dated 27.12 2018 for an amount of Rs 87 13,400/- for the strengthening of existing Cement concrete pavement/foad from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

To discuss regarding re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan).

The cost estimate has been received from Executive Engineer (P) Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/178 dated 24.01.2019 for an amount of Rs. 1,11,15,900/- for the work of re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan) was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

11 To discuss regarding widening of various roads in the Institute

- i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

The cost estimate has been received from Executive Engineer (P). Chandigarh Centrál Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/185 dated 24.01,2019 for an amount of Rs. 2,22,99,500/- for the above said works was discussed. The EAC resolved and recommended that in order to running footpath alongwith this road necessary construction for covering the drainage and widening of road may be planned as per site requirement and the case may be put up before B&WC in its ensuing meeting.

To discuss the cost estimate for widening and renovation of existing Lawn Tennis Court in the Sports Complex.

The cost estimate for amounting to Rs. 24,93,400/- for the work of widening and renovation of existing Lawn Tennis Court in the Sports Complex was discussed. The EAC resolved and recommended that the cost estimate be put up before B&WC in its ensuing meeting

13 To discuss regarding construction of Gymnasium Hall in the Sports Complex.

The matter regarding construction of Gymnasium Hall in the Sports Complex was discussed. The requirement received from Physical Education & Sports Section has already been conveyed to CPWD vide letter No. CC/3539/03/45 dated 02.01.2019 for the architectural drawing. The matter may be discussed in the next meeting of EAC after receiving the architectural drawings from CPWD

Item No. 25.9 To consider and approve the detailed Cost Estimate for widening of various roads in the Institute.

- i Road from Apollo Canteen to Security Check Post between Hostel No. 7 & 8 along with the provision of footpath as per site requirement.
- ii Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii Road from Junction near disposal pump to North West corner of Guest House

It is important to note that most of the population of the students is residing in the Hostel No. 7 to 11 and the width of existing road from Apollo Canteen to Security Check Post between Hostel No. 7 & 8 is 3.5 mtr. which is congested and crowded. Due to which it is very difficult to pass over the pedestrian, cyclist and students from either side of the road because there is no footpath along these roads for pedestrian. It is also become very difficult for students to attend the classes in the Institute and pass over from the side of the road during the movement of vehicles. Similarly the road from junction near tubewell No. 5 to junction near disposal pump and from junction near disposal pump to North West corner of Guest House is also crowded and having the same problem because of width of existing road is 3.5mtr. Moreover, the road from main gate along Kirmich road to main gate towards KUK via NIT Chowk is also very crowded being the heavy traffic intensity.

In the light of the above facts the existing road required to be widened from 3.5 mts. to 5.5. mtr. including the provision of footpath and drainage along the roads. Further, the competent authority of the Institute has desired for widening of various roads in the Institute. Accordingly a letter sent to Executive Engineer (Civil), CPWD, Karnal vide No. EO/779/5970 dated 12.12.2018 for providing the detailed cost estimate.

The Executive Engineer (Planning), Chandigarh Central Circle, CPWD, Chandigarh vide letter No. CCC/23(4515) W-III/2018-19/185 dated 24.01.2019 submitted the cost estimate for an amount of Rs. 2,22,99,500/- for the roads from i.e Apollo Canteen to Security Check Post between Hostel No. 7 & 8 for a length of about 765 mtrs. including the provision of footpath and drainage along the road towards Hostel No. 3, Hostel No. 2. Hostel No. 7 and Hostel No. 8 as per site requirement. The road from Junction near Tubewell No. 5 to Junction near disposal

pump for a length of about 800 mtr. along with the provision of footpath towards Mega Hostel and drainage as per site requirement. Road from Junction near Disposal Pump to North West corner of Guest House for a length of about 600 mtr. with the following provisions:

- 1. Widening of existing metal road from 3.5 mtr. to 5.5 mtr. with kerb channels 30 cm wide on both edges of roads. Provision of preparation of sub grade, GSB 150 mm thick, WMM 150 mm thick, 50 mm thick bitumen macadam for widening of roads and 40 mm thick, bitumen concrete for complete carriage way including road marking strips.
- 2. Provisions of footpath along the road with CC paver block including under layer of PCC 1:5:10 NP 2 RCC pipes for drainage.
- 3. Provision of CC kerb stones along road edges including painting.
- 4. Provision of 3 Nos. RCC box culverts for cross drainage.
- 5. Providing and laying in position cement concrete of specified grade 1:1:5:3 for copings of brick toe wall/edge wall and kerb channels along road.
- 6. Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 for toe wall, culverts and foot paths edge walls.

The same was put up before the EAC meeting held on 29.01.2019 and 07.02.2019. The recommendations of the EAC duly approved by the competent authority are reproduced below:

"The cost estimate has been received from Executive Engineer (P), Chandigarh Central Circle, CPWD vide letter No. CCC/23(4515)/W-III/2018-19/185 dated 24.01.2019 for an amount of Rs. 2,22,99,500/- for the above said works was discussed. The EAC resolved and recommended that in order to running footpath alongwith this road necessary construction for covering the drainage and widening of road may be planned as per site requirement and the case may be put up before B&WC in its ensuing meeting."

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 2,22,99,500/- for widening of various roads in the Institute i.e. (i) Road from Apollo Canteen to Security Check Post between Hostel No. 7 & 8 along with the provision of footpath and drainage as per site requirement,(ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath and drainage as per site requirement, (iii) Road from Junction near disposal pump to North West corner of Guest House.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./ E0/179 / 5970

Dated 12.12.2018

To

The Executive Engineer (Civil), CPWD, NDRI Campus (Near State Bank of India), Karnal-132001

Subject:

To submit the detailed cost estimate for widening of various roads in the Institute.

- i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

The competent authority of the Institute has desired for widening of various roads in the Institute i.e.:

- i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement. .
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from Junction near disposal pump to North West corner of Guest House.

It is therefore, requested to submit the detailed cost estimate for widening of above said roads, so that the same may be got approved from the B&WC in its ensuing meeting, which is going to be held very shortly.

This may be treated as most urgent.

Prof. I/C (Estate & Construction)

Copy to:

- 1. A.E. (Civil)
- 2. A.E. (Civil), CPWD NIT Campus
- 3. Dean (P&D) for kind information please
- 4. Superintending Engineer (Civil), CPWD Chandigarh Central Circle-I, Kendriya Sadan, Sector-9A, Chandigarh
- 5. SS to Registrar for kind information of the Registrar
- 6. SS to Director for kind information of the Hon'ble Director

भारता सारकार केन्द्रीय लोक मियाणि विभाग

कार्यालय अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमण्डल, के.लो.नि.वि., केन्द्रीय सदन, दूसरा तल, सैक्टर 9-ए, चण्डीगढ-160009

संख्याः च.के.परि./23(4515)W-III/2018-19 185

दिनांक: ३५ 1119

सेवा में,

The professor I/C Estate & Construction),

National Institute of Technologhy,

Kurukshetra.

विषय:

Widening of various roads in the Institute at NIT, Rurukshetra.

i) Road from Apollo Canteen to security of the post between Hostel No. 7 & 8 along with the provision of footpath as per requirement.

ii) Road from tubewell No. 5 to junction near disposal pump alc with the provision of footpath as per site requirement.

iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

उपरोक्त कार्य का 2,22,99,500/- रूपये राशि का प्रारम्भिक अनुमान दो प्रतियों सलग्न किया जाता है। इस कार्य के अनुमान हेतु आपका आवेदन पत्र संख्या EO/779/5970 दिन 12.12.2018 द्वारा भेजा गया था। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा व अन्यथा समय के साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिन हो सकती है। कार्य की स्वीकृति करते समग्र लेखा शीर्ष (हैंड ऑफ एकांउट) का भी उल्लेख का की कृपा करें।

संलग्न: अनुमान (दो प्रतियां)

कार्यपालक अभियन्ता (यो.) चण्डीगढ़ केन्द्रीय परिमण्डल के.लो.नि.वि.ए चण्डीगढ़।

प्रतिलिपि:-

- 1. मुख्य अभियंता (उ.क.-1), के लो नि वि. चण्डीगढ की सूचनार्थ प्रेषित है।
- 2. अधीक्षण अभियता (वैद्युत), चण्डीगढ़ केन्द्रीय वैद्युत परिमण्डल, केलो नि वि , केन्द्रीय सदन सैक्टर-९ ए, चण्डीगढ़ को सूचनार्थ प्रेषित है।
- 3. कार्यपालक अभियंता, करनाल केन्द्रीय मण्डल, के लो.नि.वि., करनाल को अनुमान की प्रति सहित
- 4. कार्यपालक अभियंता (वैद्युत), केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को सूचनार्थ प्रेषित है।

कार्यपालक अभियन्ता (यो.)

OGVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

≦tate: Haryana

Division: KCD

Circle: Chandigath Central Circle

Branch: B & R RAME OF WORK:

. :

.:

Widening of various roads in the Institute at NIT, Kurukshetra.

- Road from Apollo Canteen to security check post between Hostel No. 7
 8 8 along with the provision of footpath as per site requirement.
- ii) Roud from tubewell No. 5 to junction near disposal pump along with the provision of footpath as per site requirement.
- Road from junction near disposal pump to North West corner of Guest House at NIT, Kuruksheira.

MAJOR HEAD	MINOR HEAD	PETAIL TEAD							
· This preliminary	restimete framed by En C.S Pasitja, Exst	outwo Engineer, Kamal Central Division							
und further processed b	und further processed by Er. J.K.Gaul, Excoutive Engineer (P), Chandigerh Central Cince, CPWD								
Changigerh (or Rs. 2,22	2,99,500/- j/c contingencies	_							

zatininga da alikatika kangangan da kangangan alikatika kangangan kangan kangan kangan kangan kangan kangan ka

áor:

This preliminary estimate amounting to Ra. 3,22,99,500% (its contingenous has been limited. To cover the protoble cost of the above mentioned work for accord of AVAIS B/S by the conjected authorsy. The requisition for the above click work has been received from clich department wide liner of the ED/779/5070 dates 12.12,2016, Hande this estimate has been framed.

lèsign & Scoper

The following provisions have been made in this estimate: -

- Widehing of existing in etal roads from 3.5 mtr, to 5.5 mtr, with keph othernes 30 km wide on both odges of roads. Provision of properation of sub-grade. GSS 150 km thick, WMM 150 mm thick, 50 mm thick bitumes inspedent for widehing of roads and 40 mm thick, bitumes concrete for complete cautage way including road marking ships.
- Provisions (4 Inotpath along the road with CC gaver block including under layer of ECC 1(5.1)), NP 2 RCC signs for fraining.
- Provision of CC kern stones along read edges melbang painting.
- Provision of 3 Nos. RCC box culverts for cross drainage.
- 5 Provising and laying in position dement controls of specified grade 1.1.5.3 for copings of order low walltodge wall and kelp channels along road.
- Orick work with aprecion bund play F.P.S. (non-modular) bricks or class designation 7.5 for los walf, culverts and foot paths edge walls.

4chication:

CPMD Specification 2009 Vol. , & Jl.

Shall be arranged by the contractor.

Castablishment:

Shall be matiout of confingencies

Avialable with client department,

As per DSR = 2016 rates.

Through dentroof after salt of leavier,

94 Montas (After receipt of AlA & E/S)

Rs. 2,22,05,509/- Pc continuencies

The cost and hine of the project is fiable to revision due to crudable espaintion in cost of construction apart from reasons such as charge in scoop, area, design and specifications atolif so begind by the clant of a later date. The espaintion of the work will depend upon the respect of the funds through authorization or through allocation well in time during the magnital years.

Ogworfor (P) III. Assistant Enginerri (P) III. Chandigrith Centul Circle. CPWD, Changigath

Executive EnginAsi (P), Chandigath Central Certe CPWC, Chandigath

		Preliminary Estimate				
Na	me of	Widening of various roads in the Institute at NIT		etra.		
Work:- i) Road from Apollo Canteen to security check post between Hostel No. 7 & 8						₹ 8
along with the provision of footpath as per site requirement.						~ 0
ii) Road from tubewell No. 5 to junction near disposal pump along with the						
				np along	g with the	
		provision of footpath as per site requirement.				
		iii) Road from junction near disposal pump to No	orth West	corner	of Guest I	louse
		at NIT, Kurukshetra.				
Sr.	DSR No.	Description	Qty.	Unit	Rate	Amount
No.						
_1	2.8	Earth work in excavation by mechanical means				
		(Hydraulic excavator) / manual means in foundation				
		trenches or drains (not exceeding 1.5 m in width or 10			1	
	1	sqm on plan), including dressing of sides and ramming of			1	
	ŀ	bottoms, lift upto 1.5 m, including getting out the				
	ŀ	excavated soil and disposal of surplus excavated soil as		ĺ		
	1001	directed, within a lead of 50 m.		<u> </u>		
3.1	2.8.1	All kinds of soil.	2554.00	cum	166.40	424986.0
TO COL	1					
2	4.1	Providing and laying in position cement concrete of				
	ļ* .	specified grade excluding the cost of centering and				
Andreas		shuttering - All work up to plinth level :		ļ		
21	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded				
Beet Co.	<u> </u>	stone aggregate 40 mm nominal size).	583.00	cum	4209.05	2453876.0
	<u> 1</u>		<u> </u>			
3	4.4	Providing and laying cement concrete in kerbs, steps and				
	2:-	the like at or near ground level excluding the cost of				
	4.1	centering, shuttering and finishing.				
3.1	4.4.1	1:11/2:3 (1 Cement: 11/2 coarse sand(zone-III): 3 graded		1		
	1	stone aggregate 20 mm nominal size).	161.00	cum	5924.65	953869.00
•	5.1	Providing and laying in position specified grade of		[
		reinforced cement concrete, excluding the cost of				·
	X.	centering, shuttering, finishing and reinforcement - All				
	5.1.2	work up to plinth level: 1.1.5:3 (1 cement: 1.5 coarse sand (zone-III): 3 graded				
	5.1.2		87.00	cum	6215.35	540735.00
		stone aggregate 20 mm nominal size).	07.00	Cum	02 10.00	J40735:00
3	5.9	Contaring and shuttering including strutting program at				
	7.1	Centering and shuttering including strutting, propping etc. and removal of form for:				
		Foundations, footings, bases of columns, etc. for mass				
	J.J. I	concrete	292.00	sqm	193.95	56633.0
	5.9.2	Walls (any thickness) including attached pilasters,	232.00	34111	193,93	30033.0
		butteresses, plinth and string courses etc.	192.00	sgm	378.60	72691.00
3		Suspended floors, roofs, landings, balconies and access	102.00	- aqiii	57.0,00	72081.00
	V.J.	platform	82.00	sqm	422.30	34629.00
		Madorin	02.00	34111	722.00	04020.00
and the second	Alla Tra	Steel reinforcement for R.C.C. work including				
		straightening, cutting, bending, placing in position and				
·		binding all complete upto plinth level.				
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or				
	700 L	more.	12180.00	kg	56.60	689388.00
702.5			12 100.00	9	00.00	000000.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.1	Brick work with common burnt clay F.P.S. (non modular)				
ZI.		bricks of class designation 7.5 in foundation and plinth in:				
1000	Mig.	brioks of Glass designation 7.5 in foundation and pillin in.				
7.KO A	5.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	426.00	- OUT	À754.05	2074740.00
er militar		The state of the s	436.00	cum	4751.65	2071719.00

9 5€. • N G	DSR No.	Description	Qty.	Unit	Rate	Amount
	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structura steel etc. as required.	1			
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets gates and similar works	1435.00	kg	85.95	123338.00
	13.4	12 mm cement plaster of mix:				
10.25	13.4.2	1:6 (1 cement: 6 coarse sand)	25.00	sqm	168.25	4206.00
	13.5	15 mm cement plaster on rough side of single or hal brick wall of mix:	f			
100	13.5.2	1:6 (1 cement: 6 coarse sand)	20.00	sqm	194.60	3892.00
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
建 红 1	13.61.1	Two or more coats on new work	1092.00	sqm	78:40	85613.00
	15.3 15.7	Demolishing R.C.C. work manually/ by mechanica means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge. Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of	16.00	cum	1454.55	23273.00
		unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
1000	15.7.4	In cement mortar	4.00	cum	842.75	3371:00
		Disposal of building rubbish /malba /similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.				
		for all leads incidently all litts involved.	49.00	cum	120.55	5907.00
		Disposal of earth by mechanical means, including loading, transporting, unloading to dumping ground as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.		cum	115.35	227816.00
		Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.		sqm	90.10	507173.00
		Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres:				
		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1600.00	metre	36.20	57920.00
en en en en en en en en en en en en en e		Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications:				
200		Ол W.B.M. @ 0.75 Kg I sqm	4899.00	sqm	36.40 ~	178324.00
1771	15.30.2	On bituminous surface @ 0.50 Kg I sqm	11908.00	sqm	27.50	327470.00

i ∫ar.	ESR No.	Description	Giy.	Unit	: Rzie	Amount
STRAIN TO THE PROPERTY OF THE	18 55	Providing and taying biliuminus insulation using trushed stone aggregation of specified growing promoted with high-monte badder, transported to sits by tippers, land over a previously prepared surface with pover (in shor equiped with electronic sensor to the required gradd, level and alignment and colling with smooth wheeled, withoutly and tandem incline as per specifications to achieve the desired compaction and density expisions as per			!	· — — — — — — — — — — — — — — — — — — —
		specifications and directions of Engineer in-Clierge]
		60 fb ftiD mm loverage compacted thickness with bitumen of grade VG-30 중 0.55% (potentings by weight of thist mix) prepared in Ratin Type Hint Mix Plant of 100- 620 TPH paped ty	245 30	zura	5705.59	1 <u>388480 05</u>
		Froviding and laying Boumitous contrale using crashed stone aggregates of specified grading, premised with bit modes bodge and little, housepoling the bot modes work aith by lippors, laying with paver finisher equiped with electronic school to the required grade. Evel and alignment and rolling with smooth wheeled, vibilatory and landern rollers to achieve the desired contraction and density as pair specification, complete and as per directions of Engineer-in Charge.				
	16 s/,1	40%H mm compacted thickness with bitumen of grade VG-20 億 6.5% (cercentage by weight of total mot) and Inni 68cr 億 2% (cercentage by weight of Aggregate) prepared in Botch Type Hui Mix Plant of 1(4)-120 TPH capacity.	4 <u>77.50</u>	sum	7063.35	37515A87ID
		Providing and applying 2.5 mm thick load working stars (retro- reflective) in specified shade/ below using hot thempotassic material by fully/ semiliationals. Intermediates point applicates made to fitled won profit shad, glass beads dispenser, problem tank health and profits since heater, driven by expending dispersion on rous surface including load of material, listent. T&P desiring the road surface of all-fitle, seals, our grass and loreign incaterial etc. considere as per dispersion of Engineer in charge, and laccordance with lapstrable specifications.	625.626	eqn	? 5 1 25	217144.00
	· :	Providing and laying at or near ground, evel factory made kerb stone of M-25 grade personal concrete in position to the required line, lave, and privature, jointed with cereent motion 1.5 (1 cement 13 charge sport), including making joints with to will but quotives (thickness of joints concept at sharp curve shall not to more than 50 m), including making drainupe opening wherever required complete etc. as per direction of Engineer-in-chaige (length of inlanced kerb odging shall be incosured for paymost) (Precest C.C. kerb stone shall be approved by Engineer				:
	13,77	in-charge) Scanfying the existing billiminate mad surface to a depillion of 50 mm, and displant of scanfed material within at little	_87.50	(UT	5012 65	411047.00
		and lead upto 1km (by modification releases)	:49 <u>.5</u> 6"	su):	360	2 <u>048 0</u> 0
<u>.</u>		202-				

<u> </u>						
Sir. E Ma	<u>CSR V</u> o	- Description	Gty.	Rinit	Rate	Amount
1 23	1678	Construction of granular sub-twise by providing closes	 	_	"	
£: "	• •	graded Material conforming to specifications, mixing in A		l		ţ
≩ ∤∷		mechanical mixiplantial OMC, carriage of mixed material			: !	. 1
\$ >		by tapers to work who for all leads & Cis, spreading in		l	· i	i
2000 2000		uniform layors of specified thickness with motor grader				
24.5 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.		on prepared surface and compacting will: vibratory power	1			
4.5		roller to achieve the copied density, complete as per	'			l
8		specifications and directions of Engineer in Charge		!		I
117	L	l	<u>:</u>	:		_
56%	76 ⁷ 6 (Will imaterial conforming to Grade (size round 75 mm		İ	l l	4.7
2000000	├	to 0 075 mm) having CBR Value-36	<u> 345,00 </u>	CUT	2049.70	_ 17657 <u>97 (ID</u>
##					↓ 긔	
	16.79	Providing Tayling, spreading one compacting graded			1 1	
		ztonu aggrugolo (sizo ranga 92 mm to 0.075 mm tilowet				
25.		mix mariadam (WMM), specification including premaing the material will involve at OMC in for all leads 8 lifes,				
40.0		loying in inform leyers with mechanical paverlinisher in				
		isting or in carringers over meetistical pave mission of istin- base / base course by well prepared surface and				
. : 35		comparing with sibiatory rafer of 3 to 10 tonna capacity				
		la achievetrie desired density, complete as per				
- F		specifications and directions of Engineer-in Charge.				
			345 €0	gum.	2132.25	1801 <u>751 (</u> D
225	∴16 a4	Proxitang and baying Isoson, made characteria Buige			 	
- 19		Commit Concrete pave, placks to loot path, park & taxos				!
78.0		criveway or light 8 he/fo politing oftent required strength,				
22		Impkriess & size/ shape, made by lapto wbratniy method				:
25		using PU incold, laid to required about & palle nower	:			:
1 (S)		Source trick compacted bad of course sand, compacting				:
	<u> </u>	and proper embeddingdaying of litter lacking payer				j
1	3	blocks into the sand bigding rayer discogn yibratory				- 1
	:	compaction by using plat) worker, filling the joints with				j
	•	sand and outling of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete.			-	1
	ē.	as per manufucturer's specifications & direction of				į
e i		Hogiconi in Charge.				į
	~	,, <u></u> ,	!	!		
	.16.912	80mm thick Cemest concrete paver block of M300 grade				. —
1	:	with approved colcor deskip 8 pallern	3500 (III)	sqm	028 95	2235325 00
					<u> </u>	
F		Providing and planing in position (60 min thek factory			· · · ·	
200 i	:	made maching bitched & inscribe mixed Precast PCD			i	
2040 i B	i	Reclangular Covers on drains of Jostpath of various				- 1
		sizes, of MID5 grade comest contrals for RCC work.	:		!	- 1
		moisting both of pentering ishultering incolorisation of 8)	- 1
97.4		min dia TMT bais of Se 500 grade 60 mesumum 400mm sis dia lata sergera mesara separah propinsi dia Sergiand				
ero i		cfoloni both ways it neat cement himming on finished surface, properly ericased on all edges with 1 turns frich.			1	
2-7 B		, 150 mm wide MS shoot duly painted over priming beal .				
77 t		replications of the worked as edges with MS silest and				
} .v. i }		proviong 2 Albor 12 min die bei for nooks et. 45 cost of			,	
	}	carlage all cads & Iff handling all site etc. of complete				
1.00		E6				
- :	i	per dicection of Engineerin-Charge		i		
<u> </u>	.		10.00	sqiri	1907.95	19080 0.3

· _						
> 1	DSR No.	Description	Qtý.	Upis	Rate	Ascorate 2
	70.6	Providing and taying non-pressure NPC class (Ight July) R.O.C. piges with collars jointed with stiff endure (* learnest mortal in the proportion of 1.2 [1 compant 1.2 line send) identified (setting testing of pints also complete).			-	
<u>\$ 271</u>	15.6 S	450 mm ma (K,C,C) β.ρε	59 00	πelro	7,20,98	40373,056
1				i		77.1
128	hik	Credit for our steel recifurcement bars received from	. —			- 95°
12 4.:	Ĺ	sismanling for RCC	1200,00	kji	-20.90	-25030 004
3	┬	Total			l — :	20464820,00
		Add Cast Index: 69 3.92% on all DSR items conept MR1 items Rs. 2,04,89,5009.	 		(4)	803 204.6 6 21280024.00
3	:	Add Conlinger ales at (A) @	2.40%		_ (A)	538041.021
	\vdash \vdash	Aub capour Cass, on (A) ලා				2126820.086
	<u> </u>	Add EPF & RS-C on (A) (\$)	0.850%			180778.00
wal:	<u> </u>	Grunt: Total	-			22299523.00
## #		Say Rs 2,22,99	500:-			·
179						

Casistan) Engineer (Pi-III Chandigar) Centra Circle, COMO, Chandigarh

Executive Engine (P) Charaligain Central Since CPVO Charaligath

Polimonry ostimate amounting to Rs.3 22,89,5004 (Rupees Two pione twenty (an technicity in he thuosand five in the property of the property of AVA 8 P/S from competent authority.

Superviseding Engineer, Chandigath Certral Circle, CPWO, Chandigath

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./F0/779/5970

Dated 12.12.2018

Τo

The Executive Engineer (Civil), CPWD, NDRI Campus (Near State Bank of India), Karnal-132001

Subject:

To submit the detailed cost estimate for widening of various roads in the Institute.

- i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- Road from junction near disposal pump to North West corner of iii)Guest House at NIT, Kurukshetra.

The competent authority of the Institute has desired for widening of . various roads in the Institute i.e.:

- Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- Road from Tubewell No. 5 to Junction near disposal pump along ii) with the provision of footpath as per site requirement.
- Road from Junction near disposal pump to North West corner of iii) Guest House.

It is therefore, requested to submit the detailed cost estimate for widening of above said roads, so that the same may be got approved from the B&WC in its ensuing meeting, which is going to be held very shortly.

This may be treated as most urgent.

Prof. I/C (Estate & Construction)

· Copy to:

- 1. A.E. (Civil)
- 2. A.E. (Civil), CPWD NIT Campus
- 3. Dean (P&D) for kind information please
- Superintending Engineer (Civil), CPWD Chandigarh Central Circle-I, Kendriya Sadan, Sector-9A, Chandigarh
- SS to Registrar for kind information of the Registrar 5.
- SS to Director for kind information of the Hon'ble Director

8. To reconsideration the work of provision of shed for parking only for four wheelers in the existing parking near NIT Market Complex.

The matter regarding reconsideration of the provision of access to Golder Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall-towards west at NIT, Kurukshetris was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 44,69,700/-. Further the EAC recommended that the case may be put up before FC/BOG.

9 To discuss the cost estimate for strengthening of existing Cemen concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road betweer Jubilee Hall & Library including arrangement of drainage of storm water at NITK

The cost estimate has been received from Executive Engineer (Civil CPWD, Karnal vide letter No. 20(142)/PS/KCD/2018/4720 dated 27.12.2018 for an amount of Rs. 87,13,400/- for the strengthening of existing Cemeni concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

10 To discuss regarding re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan).

The cost estimate has been received from Executive Engineer (P), Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/178 dated 24.01.2019 for an amount of Rs. 1.11.15.900/- for the work of re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan) was discussed The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

11 To discuss regarding widening of various roads in the Institute

- i) Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

The cost estimate has been received from Executive Engineer (P), Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/185 dated 24.01.2019 for an amount of Rs. 2,22,99,500/- for the above said works was discussed. The EAC resolved and recommended that in order to running footpath alongwith this road necessary construction for covering the drainage and widening of road may be planned as per site requirement and the case may be put up before B&WC in its ensuing meeting.

12 To discuss the cost estimate for widening and renovation of existing Lawn Tennis Court in the Sports Complex.

The cost estimate for amounting to Rs. 24,93,400/- for the work of widening and renovation of existing Lawn Tennis Court in the Sports Complex was discussed. The EAC resolved and recommended that the cost estimate be put up before B&WC in its ensuing meeting.

13 To discuss regarding construction of Gymnasium Hall in the Sports Complex.

The matter regarding construction of Gymnasium Hall in the Sports Complex was discussed. The requirement received from Physical Education & Sports Section has already been conveyed to CPWD vide letter No. CC/3539/03/45 dated 02.01.2019 for the architectural drawing. The matter may be discussed in the next meeting of EAC after receiving the architectural drawings from CPWD 0

ngs from CPWD

Item No. 25.10 To consider & approve the Cost Estimate for the construction of Lawn Tennis Court including widening and repair of existing Lawn Tennis Court in the Sports Complex at NIT, Kurukshetra

A request received from SAS Officer vide No. PESS/2018/485 dated 29.09.2018 for construction of Lawn Tennis Court including widening and repair of existing Lawn Tennis Court in the Sports Complex alongwith size and specifications of surfaces etc.

Accordingly, the cost estimate prepared by the Estate Section for an amount of Rs. 24,93,400/-. The funds has been proposed by the Account Section out of Plan Grant (Building Repair) for the work of construction of Lawn Tennis Court including widening and repair of existing Lawn Tennis Court in the Sports Complex.

The same was put up before the EAC meeting held on 29.01.2019 and 07.02.2019. The EAC discussed the matter in detailed and resolved that the work requires the administrative approval and expenditure sanction before initiating the process for execution of the work. So the cost estimate be put up before B&WC in its ensuing meeting.

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 24,93,400/- for the construction of Lawn Tennis Court including widening and repair of existing Lawn Tennis Court in the Sports Complex at NIT, Kurukshetra.

National Institute of Technology **Physical Education & Sports Section** Kurukshetra - 136119

PESS/2018 / 485 Dated: 29/09/2018

(Through Proper Channel)

With reference of letter no. PESS/18/306 dated 11-06-2018 In this regard Physical Education & Sports Section hereby submitting the justification regarding proposal of the Lawn Tennis Court as given below:

- 1. At present, there is one Lawn Tennis court in sports section which is not in proper condition and dimensions do not fulfill the requirement for a national standard of Lawn Tennis Court.
- 2. In the present condition of court, it is not possible for us to organise any national level tournament.
- 3. Institute runs Physical Education course with credit in odd and and audit in even semester for B. Tech 1st Year Students.
 - 4. Students are facing a lot of problems in practical classes during the compulsory practical classes as per curriculum of the B.Tech programme.
 - 5: Due to rough court and without standard dimension, it may lead to injury to the students.

Keeping in view of above mentioned justifications and for organizing any national tournament of Lawn Tennis, the re-construction of the court is highly desirable in the larger interest of the students.

Submitted for favorable consideration, please.

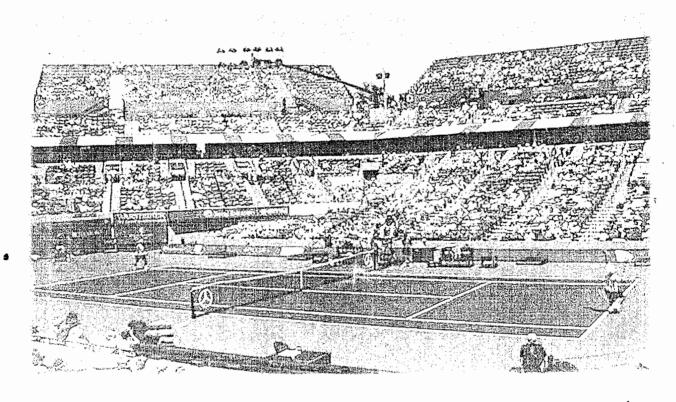
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INTERNATIONAL TENNIS FEDERATION (ITF)





NA CONTRACTOR

LAWN TENNIS

- On each side of the net, at a distance of 21 feet (6.40 m.) from it and parallel with it, shall be drawn the service lines.
- The space on each side of the net between the service-line and the side-line shall be divided into two equal parts called the service-courts by the center service-line, which must be 2 inches (5 cm.) in width, drawn half-way between, and parallel with the sideline.
- Each base-line shall be bisected by an imaginary continuation of the center serviceline to a line 4 inches (10 cm.) in length and 2 inches (5 cm.) in width called "the center mark" drawn inside the Court, at right angles to and in contact with such base-lines.
- All other lines shall be not less than 1 inch (2.5 cm.) nor more than 2 inches (5 cm.) in width, except the base-line which may be not more than 4 inches (10 cm.) in width, and all measurements shall be made to the outside of the lines. All lines shall be of uniform color.
- If advertising or any other material is placed at the back of the Court, it may not contain white, or yellow. A light color may only be used if this does not interfere with the vision of the players.
- At Club or recreational level, the space behind each baseline should be not less than 18 feet (5.5 m) and at the sides not less than 10 feet (3.05 m.).

Tennis Court Orientation.

- The ideal court orientation is North-South.
- The center service line and center mark line must be 50mm wide. All other lines except the baseline may be 25mm-50mm wide. The base line may be 25mm-100mm wide.
- All measurements are to the outside of the lines.

When planning to build a new tennis court then the design and specification of the size and dimensions will be outlined which will change depending on budgets, cost restraints or physically the size restraints onsite. Some projects might only have the space for an 18m x 36m, so although it doesn't meet the championship size it is more than the minimum recommended that is set out by the ITF.

4.3 DRAINAGE

The slope of Tennis court is ideally flat, however the court should drain from one side to the other side at about 1% and this water needs to be dealt with or it can soak directly into adjacent soils (and therefore back in under the court) or it can be a source of settlement or erosion. In most cases, a concrete steel reinforced open faced V-ditch drain immediately adjacent to the court can capture this water and then dispose of it a good distance from the court.

4.4 TENNIS COURT FENCING

10' high fencing is perhaps the "standard"; however, in some cases, we might want to consider 12' high fencing if the area beyond the fence is inaccessible for ball retrieval. It is important to have the squares in the fence fabric not greater than 40 mm, or the ball may go through.

As regards fencing between the courts, you can minimize costs by coming down 20 ft from each end with full height fencing and then drop to 3 ft 6 inch fencing for the middle 80 ft with an open 4 ft space. A gate is then not necessary.

4.5 HITTING WALLS

Hitting wall allows players to warm up by themselves and to also practice repetitive strokes. It should be 20 ft wide and at least 7 ft in height to serve as a hitting wall. It is important that the back of the wall be thoroughly waterproofed in order to stop water from soaking through because it will stain the exposed surface. The inside surface should be color coated to match the inner playing surface of your court. Place a 36" high horizontal white line across it to create a net line.

4.6 Types of Court Surfaces

- Natural Grass
- Clay
 - Artificial Grass
 - Acrylic floor Surface

Grass and clay courts are clearly in the minority, throughout the world, nonetheless, they do hold some appeal. It is important to understand that they are both more expensive and more maintenance intensive than hard courts.

back lawn you will remember that the 30 minutes of volleyball on the 4th of July left marks that were visible well into August. Constant mowing, regular feeding and protection from Jisease are major items in the maintenance of a grass court.

Grass courts are particularly easy on the joints, as the grass and soils have a cushioning effect. Playing lines are chalk and are laid down with a small, roller type of chalk feeder, similar to those used to place playing lines on a baseball diamond.

4.6.3 Hard Court

In Southern California (generally considered the tennis capital of the world) almost all tennis courts are built out of concrete, as opposed to Northern California, where exactly the opposite is true, with most courts being built out of asphalt. Once surfaced and color coated, asphalt and concrete courts look alike, play alike and other than looking at construction related details, no one can tell one from the other. The principal reason for the geographic difference is the concrete in Northern California is significantly more expensive than in Southern California, costing some two to three times what it does in Southern California.

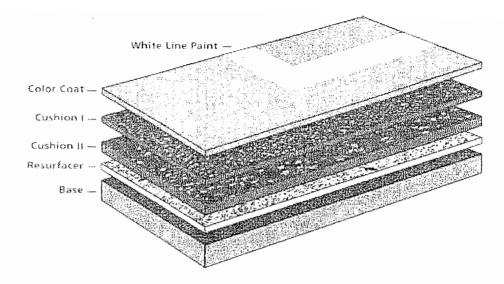
A persistently stated opinion is that an asphalt court is "easier on the feet."

Unfortunately, this is pure fiction. For this to be true, an asphalt court would have to "give" (actually depress) when you walk or run on it. Put simply, it doesn't. The materials under both asphalt and concrete courts are compacted to very high densities and levels of compaction, --- normally 90% to 95% and the asphalt itself receives a very high compaction and density when paved with 4 and 5 ton rollers.

What creates the misconception is that if you try to hammer a nail into both a concrete and an asphalt surface, you will find that it can be driven into asphalt and not into the concrete. Thus, most people think of asphalt as being "softer" and, therefore, "easier on the feet". It isn't, it is the same as concrete.

The reaction of a tennis ball striking and leaving a court surface is determined by the finishing materials on the court. Materials used to finish and color coat both asphalt and concrete courts are identical. Thus, they play identically the same.

The structural weakness of asphalt (relative to concrete), means that extra care needs to be taken in building the court. The degree of compaction and the nature of the underlying



- The no. of cushion layers can be more/less in accordance with the product specification and the court pace rating
 - For long hours of training, cushioned layers reduces fatigue on player's legs ankles and feet.

We should not experiment with any other products like PU, prefabricated plastic modules for outdoor surfaces because these are not used for any international/National competitions

4.7 Recommended Specifications for SAI Centers

- SAI Centers may have a mix of all type of courts i.e. Natural Grass, Artificial Grass, Clay, or Acrylic as per approval of DG SAI
- Synthetic Acrylic flooring (Hard court) is preferred due to long life and it is maintenance
 free. Number of layers may be as approved by the ITF for a particular manufacturer and
 the court pace raring required. Acrylic flooring product approved by ITF should only be
 provided

4. LAWN TENNIS: (ITF – International Tennis Federation)

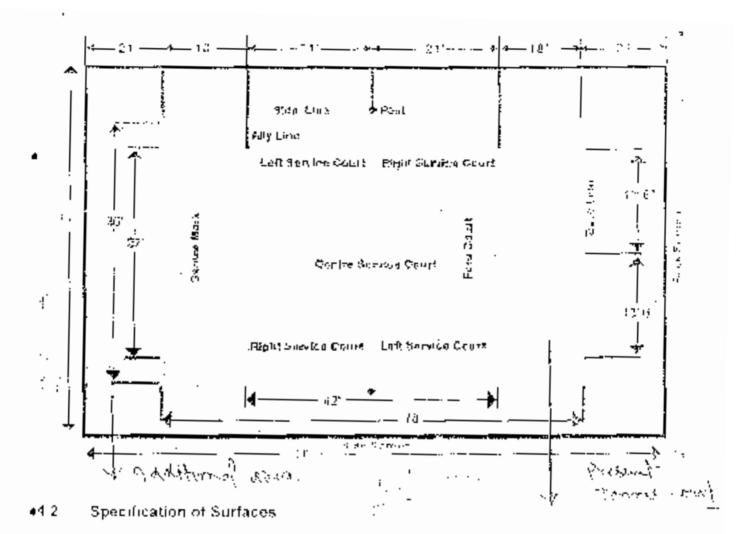
Lawn Tennis is basically an outdoor game. The main factors which need to be considered in the development and use of suitable specifications for a tennis court include:

- (a) Proper court size:
- (b) Orientation of courts;
- (c) Slope and drainage of courts;
- (d) Base and construction materials;
- (e) Type and speed of surface, and
- (f) General information on lighting, fencing, nets, net posts, windscreens, maintenance and resurfacing.

4.1 Rules of Tennis

- For singles Game, Court shall be a rectangle 78 feet (23.77 m.) long and 27 feet (8. 23 m.) wide.
- For the doubles Game, the court shall be 36 feet (10.97 m.) in width, i.e. 4½ feet (1.37 m.) wider on each side than the Court for the Singles Game, and those portions of the singles sidelines which lie between the two service lines shall be called the service sidelines. In other respects, the Court shall be similar to Singles court, but the portions of the singles side-lines between the base-line and service-line on each side of the net may be omitted if desired
- The Run offs beyond each sideline shall be 12 ft and beyond baseline it shall be 21 ft.

 The size of the court up to fencing shall be 120 ft. X 60 ft.
- Court shall be divided across the middle by a net suspended from a cord or metal cable
 of a maximum diameter of one-third of an inch (0.8 cm.), the ends of which shall be
 attached to, or pass over, the tops of the two posts, which shall be not more than 6 inches
 (15 cm.) square or 6 inches (15 cm.) in diameter.
 - The posts shall not be higher than 1 inch (2.5 cm.) above the top of the net cord. The centers of the post shall be 3 feet (.914 m.) outside the Court on each side and the height of the posts shall be such that the top of the cord or metal cable
 - The net shall be extended fully so that it fills completely the space between the two posts and shall be of sufficiently small mesh to prevent the ball passing through.
 - The height of the net shall be 3 feet (.914 m.) at the center, where it shall be held down taut by a strap not more than 2 inches (5 cm.) wide and completely white in color.
 - The lines bounding the ends and sides of the Court shall respectively be called the base lines and the sidelines.



- Terms is played on a variety of surfaces and cach surface has its from characteristics which altest the playing style of the game.
- The International Terms Federation (IEE) classifies surfaces into one or five page pertons;



- A softene product implying on the list of ill. Classified Silmaces is chassing purely on the basis of no Court Pacific Rating.
- III (Classification), ones recompressing form of Clingapinsyal or chooses conf.
- If they classified like appraisance of the original the palog page for doing close effective one.

4.6.1 CLAY COURTS

The clay material for clay courts is not anything like the local clay soils. Although less expensive to construct than other types of tennis courts, the maintenance costs of clay are high as the surface must be rolled to preserve flatness. Another aspect of clay is that it needs to be maintained at a fairly constant moisture level. If it is too wet, it is gooey and if too dry, it is powdery. Overhead sprinklers on a time clock are one solution; however, evaporation and water consumption make it a very costly affair during drought conditions.

The lines on clay courts are actually strips of a canvas-like material which is nailed down. Clay courts need to be "resurfaced" after a certain amount of play to replace clay that has either washed or blown away and this entails removing and then replacing the lines.

A clay court is a labor of love. Playing on a clay court is also quite different from conventional hard-court tennis. The principal difference is the need to literally slide on the clay surface as you get into position to hit shots. This sliding action also creates the great benefit of having a clay court. It reduces the running and pounding action on feet and joints and, therefore, is much easier on your system. One should also be aware that playing tennis on a clay court is very difficult if you are only used to hard courts and, while many people enjoy an occasional match on clay "for the fun of it," they find it very difficult to switch back and forth between the two.

4.6.2 GRASS COURTS

Just as a clay court plays quite differently from a hard court, a grass court creates a totally different game. The bounce of the ball is as if someone has punctured it. A high lob landing on a hard court might bounce up 10', while the same lob landing on a grass court might, bounce just 2'. To add to the confusion, is the fact that the bounce is almost predictably erratic as it is coming off an uneven grassy surface and not the flat surface of a hard court. The other significant difference is that a ball hit towards you tends to skid on the grass, rather than having traction as on a hard court surface. Therefore, it doesn't "come up". So, while you might expect it at 30" to 36" above the playing surface on a hard court, it might only "come up" 10" to 12" above a grass surface.

The construction of a grass court is very much like the technique used in building a putting green on a golf course. It starts with underlying soils preparation, followed by layers of increasingly smaller rock materials, followed by nutrient soils through which water can flow. The grass actually grows in a granular, sandy and nutritious soil that drains extremely well. A grass court takes a real beating. If you have ever set up a volleyball net on the

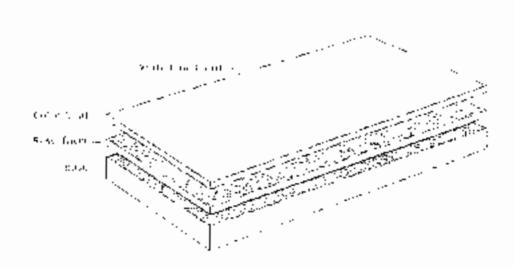
software key elements in aspirall could construction, because whetever happens or onto the underlying soils is transmitted up incough the aspiral;

An informed dension as to aschall or contrate should be made in continents with data some a soft engineer and by comparative phong of point lyabs of courts.

4.6.4 SYNTHETIC ACRYLIC FLOOR SURFACES

Synthetic Acrylic floor surface contes in the entegory of hard court. In India asphalt base will be released

- It is extensively used for nuttion issorts like Terms, Baskethall, Vocayball, Badrouton, bendball etc.
- Synthetic acrylic flooring is pretrained to be installed on a michien base but can be used on concrete base also
- Acry it surface can be provided from 3 Lavers to 4 Layers systems as color court and Cushion courts.
- It is a specification is supported by the property of the specific of the specific of the specific of the property of the specific of the specifi



4.5.5 (COSHION/ COSHION PLUS) SYSTEM formula than 3 layer system additional layers are of uishnot conceiling of midgings tokes array or as not obesticed a viriabilities.

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ಲಂತು estimate for Construction of Lawn Tennis Court including widening and renovation of exsisting the Lawn Tennis Court at NIT, Kurukshetra.

	Specifications					
Sr No.		Qty.	Unit	Rate	Amount	DSR No.
11	EARTH WORK					2
1.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge					2.1
1.1.1	All kinds of soil	1410	Sqm.	53.00	74730	2.1.1
1.2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					2.8
1.2.1	All kinds of soil	74	Cum	166.40	12313.60	2.8.1
1.3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dréssing complete	141	Cum	917.75	129402.75	2.27
2	Concrete Work					4
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:					4.1
2.1.1	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone					
	aggregate 40 mm nominal size).	15	Cum	4814.55	72218.25	4.1.6
2.1.2	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size). Providing and laying cement concrete in retaining walls, return	141	Cum	4209.05	593476.05	4.1.10
	walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				·	, •
· ·						4.2
2.2.1	1:1½:3 (1 cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	4.65	Cum	6990.40	32505.36	4.2.2
2.2.2	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	3.1	Cum	6547.70	20297.87	4.2.3
2.3	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete					4.5
2.3.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20mm nominal size).	2.7	Cum	6772.45	18285.62	4.5.1
3	Reinforced Cement Concrete					5
3.1	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					_ 5.22
3.1.1	Thermo-Mechanically Treated bars of grade Fe-500D or more	330	Kg.	56.6	18678.00	5.22.6
4	Brick Work					6
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					6.1
4 1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	41	Curs	4751.65	194817.65	

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RINGS

	Steel Work					10
. /	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
ļ						10.25
5.1.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	1740	Kg.	65.80	114492.00	10.25.1
હે	Finishing					13
6.1	15 mm cement plaster on the rough side of single or half brick wall of mix:					13.2
6.11	1:4 (1 cement: 4 fine sand)	220	Sqm.	200.25	44055.00	13.2.1
7	Dismantling and Demolishing					15
7.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					15.2
7.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	33	Cum	997.05	32902.65	15.2.1
8	Road Work					16
8.1	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately				•	•\ 16.43
8.1.1	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	141	cum	7160.4	1009616.40	16.43.2
9	Drainage					19
9.1	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			-		19.6
9.1.1	300 mm dia. R.C.C. pipe	15	Metre	518.55	7778.25	19.6.4
				Total	2375569.45	
Add Cost Index @ 3.92% on Rs. 2375569.45						
	A1111		otal Rs		2468691.77	·
	Add Labour cess @ 1%		nd Tota		24686.92 2493378.68	
			Say Rs		2493400.00	

The above estimate is based on (DSR 2016 + Cost index).

A.E. (Civil) J.E. (Civil)-II

The istimated amount 24934a/= Las been prepared by estate section as per our requirement Me same may please be allowed bythe compatient dustrossty to allocate the fund from appropriate changeable head. So that the works may be executed by estate socion as pr mospotationte Shahasullai Pry. 9/c Pay. Edu. Dean S.W. Pr 24/10/18 Pry- 1/4 E8C 2510-18 1891E0114 Dom (1020) 1/8/8/110/18 Registrar Office Registate I/C Dairy No. 914 Dt. 29/10/18 Funds parsition pl. Deuf 29/10/18 Fonds may be allowed from Sports (8AF) or greathful, grant Also mention the position of feed ALUT, SAR.
ACIT longsdered and asur y B. 24/934m/may be allocated but of liken Goant & Building ne wouldn't 11/14/10 DR (Account) Pino Totalone Pof Miller Exile Sof 12.12.18 And c) lb - 291-

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Subject. - Proposal regarding construction of administrates in the second repairs the Lazar feature than

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John 16 (16

Faculty I.O. (Lawn Tennis)

Notice (£ 3 C)

Respirit in view of the above, the matter was discreted with the SIAS officer logariding loctaits of Lawri Termis Court for that cost estimate may be prepared. After detailed discretions SIAIS police, sent a negated recrimement was table No. 95 98/2018/469 Jaced 20.03 2012.

Apportingly, the detailed cost data are for the obove work as eiter in the Apport has their integers of the amount of Rs. 24 93,400% (water in the first

Spot affect for full entired percept pleases

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--- PANYAW Gree Junta Ju Prof. (2) 102 - 200 State (2) EBC-28/1-13 @ 1/20/3

8. To reconsideration the work of provision of shed for parking only for four wheelers in the existing parking near NIT Market Complex.

The matter regarding reconsideration of the provision of access to Golden Jubilee Administrative Building by providing a gate & parking shed for two wheelers along the inside boundary wall-towards west at NIT. Kurukshetra was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the above said work already stands approved by B&WC for an amount of Rs. 44,69,700/-. Further the EAC recommended that the case may be put up before FC/BOG.

To discuss the cost estimate for strengthening of existing Cement concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK

The cost estimate has been received from Executive Engineer (Civil) CPWD, Karnal vide letter No. 20(142)/PS/KCD/2018/4720 dated 27.12.2018 for an amount of Rs. 87,13,400/- for the strengthening of existing Cement concrete pavement/road from North East corner of CCN to Junction between Cauvery Hostel & MBA/MCA department and road between Jubilee Hall & Library including arrangement of drainage of storm water at NITK was discussed. The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

10 To discuss regarding re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan).

The cost estimate has been received from Executive Engineer (P). Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/178 dated 24.01.2019 for an amount of Rs. 1.11.15.900/- for the work of re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra (as per Institute Master Plan) was discussed The EAC resolved and recommended that the case may be put up before B&WC in its ensuing meeting.

11 To discuss regarding widening of various roads in the Institute

- Road from Apollo Canteen to Security Check Post between Hostel No.7 & 8 along with the provision of footpath as per site requirement.
- ii) Road from Tubewell No. 5 to Junction near disposal pump along with the provision of footpath as per site requirement.
- iii) Road from junction near disposal pump to North West corner of Guest House at NIT, Kurukshetra.

The cost estimate has been received from Executive Engineer (P). Chandigarh Central Circle, CPWD vide letter No. CCC/ 23(4515)/W-III/ 2018-19/185 dated 24.01.2019 for an amount of Rs. 2,22,99,500/- for the above said works was discussed. The EAC resolved and recommended that in order to running footpath alongwith this road necessary construction for covering the drainage and widening of road may be planned as per site requirement and the case may be put up before B&WC in its ensuing meeting.

12 To discuss the cost estimate for widening and renovation of existing Lawn Tennis Court in the Sports Complex.

The cost estimate for amounting to Rs. 24,93,400/- for the work of widening and renovation of existing Lawn Tennis Court in the Sports Complex was discussed. The EAC resolved and recommended that the cost estimate be put up before B&WC in its ensuing meeting.

13 To discuss regarding construction of Gymnasium Hall in the Sports Complex.

The matter regarding construction of Gymnasium Hall in the Sports Complex was discussed. The requirement received from Physical Education & Sports Section has already been conveyed to CPWD vide letter No. CC/3539/03/45 dated 02.01.2019 for the architectural drawing. The matter may be discussed in the next meeting of EAC after receiving the architectural

drawings from CPWD

(Line / Jones

To On-

Item No. 25.11 To consider and approve the cost estimate for Water Proofing Treatment of Cafeteria in Open Air Theatre.

A request received from the NCC Officer vide letter No. NCC/2017 dated 14.08.2017. In view of this, the site was visited by the Estate officials alongwith A.E. (Civil), CPWD and found that the spouts of storm water were replaced even then leakage was not stopped during the rains. The false ceiling of cafeteria is deteriorated day by day due to continuous leakage of water through joints of steps. The matter was also brought to the notice of Dean (Estate) & Prof. I/C (E&C) during the site visit on 25.10.2017. The same issue was put up before the EAC meeting held on 27.10.2017, regarding free flow of water through false ceiling. After detailed discussion the Estate Affairs Committee decided that CPWD may be asked to submit the cost estimate of water proofing treatment of cafeteria of OAT.

Accordingly, a letter sent to Executive Engineer (Civil), CPWD vide No. CC/3506/781/6760 dated 05.06/12.2017 & CC/3506/91/587 dated 01.02.2018 for submission of the cost estimate for water proofing treatment of cafeteria in OAT. The Executive Engineer (Civil), CPWD submitted a preliminary cost estimate for an amount of Rs. 21,96,000/- vide letter No. 20(142)/PS/KCD /2018/495 dated 06.02.2018 for the work of water proofing treatment of Cafeteria in OAT.

The estimate was put up before the Estate Affairs Committee meeting held on 06.09.2018. The Estate Affairs Committee discussed the estimate and recommended that the cost estimate be put up in the next Building & Works Committee after approval of the competent authority of the Institute.

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 21,96,000/- for water proofing treatment of cafeteria in OAT.

NCC Office (Army Wing) NIT Kurukshetra

NCC/NO/2017

Date: 14.8.2017

Subject. Complem regarding they how of writer through take ceiling to NCC office at OAT.

NCC affice was shared from aid bank building to GAT. From the beginning, runt state tealings a color through latte ceiling. The 1, and AE had checked it are assured us to get a repaired very soon fluid, the contractor who had the latter affice thing.

The problem has unureed notable, till date and NCC elothing and other NCC items no damaged due to water they are the office floor

Please do the needful report to avoid medicion ence and further damage

Veteria on RCC Office Mobile 946643376

Profeme Clorge (Estate)

Copy to:

Dean (Estater

14-00

 As NCC office opens after: 1.26 pm, please call on my moreber to make the keys available for inspection and repair purposes.

and the ordinals of the purchase of heavend that would have a finite to the purchase of the purchase of heavend that would have the purchase of the provide of heavend to be and of the provide of the pr

Subject: Minutes of meeting of Estate Affairs Committee held on 27.10,2017 in office of the Dean (P&D) & Chairman (EAC) at NIT, Kurukshetra.

A meeting of Estate Affairs Committee was held on 27.10.2017 at 03:30PM onwards in office of the Dean (P&D) to discuss the various issues related to Estate Section.

Following were present.

Prof. D.K. Soni, Dean (P&D) Chairman Prof. Arun Goel, Dean (Estate) Member 3. Prof. Surinder Deswal, Registrar I/C Special Invitee 4. Prof. S.M. Gupta, Prof. I/C (E&C) Member 5. Dr. Anil Dahiya, Faculty I/C (H&L) Member 6. Dr. Jayaram Nakka, Faculty I/C (EM&T) Member

Prof. K.K. Singh, Civil Engg. Deptt. & Dr. Chalak Hanuman Devidas, Faculty I/C (S&C) could not attend the meeting.

Member & Convener

Following issues were discussed and resolved as under:

Sh. S.N. Kaushik, A.E. (Civil)

To discuss the request received from HoD, Computer Applications vide No. DCA/2017/143 dated 07.04.2017 & DCA/2017/276 dated 05.06.2017 regarding additional building for Computer Application Department with detailed justification

The request received from the HoD, Computer Applications vide letter no. DCA/2017/143 dated & DCA/2017/276 dated 05.06.2017 regarding additional building for Computer Application Department was discussed in detail in the meeting. It was also discussed that dowel columns are left on roof terrace for the provision of another storey over the building and it was observed during a visit on dated 11th & 12th October, 2017 by Director, Registrar, Dean (Estate), Prof. I/C (E&C), Faculty I/C (EM&T) & Officials of Estate Section that additional floor over the existing building is required. The EAC resolved and recommended that the additional (two) floors over the existing MBA/MCA building are required to meet out the space requirement of these departments. It was decided that CPWD may be asked to submit the cost estimate for construction of extension of additional two floors over existing MBA/MCA Department with the provision of centralized air conditioning including existing ground floors, first floor and provision of lifts also. Further, It was also resolved that the cost estimate received from CPWD for the work of construction of extension of two additional floors over the existing MBA/MCA Building be put up in the next EAC meeting so that the same may be recommended to B&WC for consideration & further approval by competent authority.

To discuss the request received from Prof. Hari Singh, Professor, MED vide dated 27.04.2017 regarding provision of one Indian Toilet Seat in House No. BT-401

The request received from Prof. Hari Singh, Professor, MED dated 27.04.2017 regarding provision of one Indian Toilet Seat in House No. BT-401 was discussed in the EAC meeting. The EAC was apprised that there is a chance of leakage in the floor due to replacement of European type seat by an Indian seat and vice-versa. So it was decided that if need be an Anglo Indian toilet seat in place of European type seat may be provided in BT/CT type houses on requirement basis.

To discuss the request received from HoD, Computer Engineering vide No. CO/2017/310 dated 12.05.2017 regarding opening passage for pedestrians to the department from the road in front of Girl's Hostels

The request received from HoD, Computer Engineering vide letter No. CO/2017/310 dated 12.05.2017 regarding opening a passage for the pedestrians to the department from the road in front of Girl's Hostels was discussed in the EAC meeting. The EAC resolved and recommended that the matter may not be acceded to due to security reasons. The same may be communicated to HoD, Computer Engineering after approval of the competent authority of the Institute.

To discuss the request received from Prof. I/C (CCN) vide No. CCN/2017/46 dated 19.07.2017 regarding to create suitable emergency exit on both sides of CCN block

The request received from Prof. I/C (CCN) vide letter No. CCN/2017/46 dated 19.07.2017 regarding to create a suitable emergency exit on both sides of CCN block the matter was discussed in the Estate Affairs Committee meeting. The EAC resolved and recommended that the matter may not be acceded to due to practical feasibility & other structural reasons. The same may be communicated to Prof.I/C (CCN) after approval of the competent authority of the Institute. However, Engineers or Estate Section ma of Estate Section may visit the site & explore further for any other possibility of

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./CC/3506/78//6760

Dated <u>05</u>.12.2017

To

The Executive Engineer (Civil),

CPWD, NDRI Campus (Near State Bank of India),

Karnal-132001

Subject:

Regarding to submit the cost estimate for water proofing treatment of cafeteria of OAT at NIT, Kurukshetra (EAC Item No. 24(i))

It is brought to your kind notice that the leakage of water through the joints of steps of cafeteria of OAT and the leakage was not stopped during the rains. Due to continuous leakage of water the false ceiling of cafeteria is deteriorating. The competent authority of the Institute has desired to execute the work of water proofing treatment of cafeteria of OAT.

It is therefore, requested to submit the cost estimate for the above said work at as early as possible, so that the early action may be taken accordingly to save the building.

An early action is requested please.

Prof. I/O (Estate & Construction)

Copy to:

1. A.E. (Civil)

2. A.E. (Civil), CPWD, NIT Campus

3. Dean (P&D) for kind information please

4. SS to Registrar for kind information of the Registrar

5. SS to Director for kind information of the Hon'ble Director

Reminder-L

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./CC/35CG/QI/587

Dated 01.02.2018

Ţσ

The Executive Engineer (Civil),

CPWD_NDRI Campus (Near State Bank of India).

Karnal-132001

Subject: Regarding to submit the cost estimate for water proofing treatment of

cafeteria of OAT at NIT, Kurukahetra (EAC Item No. 24(II))

Reference: No. CC/3506/781/6760 dated 05/0612.2017

In continuation to letter under reference it is brought to your kind notice that the 'eakage of water through the joints of steps of cafeteria of OAT and the leakage was not stopped during the rains. Due to continuous leakage of water the false ceiling of cafeteria is deteriorating. The competent authority of the Institute has desired to execute the work of water proofing treatment of cafeteria of OAT.

If is (herefore, once again requested to submit the cost estimate for the above said work as early as possible, so that the early action may be taken accordingly to save the building.

It may please be treated as most urgent.

Prof. I/C (Estate & Construction)

Copy to:

- A.E. (Civil).
- A.E. (Civil), CPWD, NIT Campus.
- Dean (P&D) for kind information please.
- Superintending Engineer (Civil), CPVID Chandigath Central Circle-I, Kendriya Sadan, Sector-9A, Chandigath
- SS to Registra: for kind information of the Registrar.
- 6 SS to Director for kind information of the Hon'ble Director.



भारत सरकार GA A GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT

Office of the Executive Engineer 239 Central Public Works Department, 912118

NDRI Campus, Near State Bank of India, Karnal-132001. Phone: 0184-2250690

NUNUNCHEIKA

Fax: 0184-2250660 E-mail: cpwdckarnal@gmail.com

कार्यालय कार्यपालक अभियंता केन्द्रीय लोक निर्माण विभाग, एन.डी.आर.आई कैम्पस, नजदीक स्टैट बैंक आफ इंडिया, करनाल -132001

दूरभाष : 0184-2250690 फैक्स : 0184-2250660

संख्या:- २०(१४२)/यो.शा./क.के.मं/२०१८/५५ 🥤

दिनांक *6.1.*2.1.18

सेवा में,

निदेशक, राष्ट्रीय प्रोद्योगिकी संस्थान, कुरुक्षेत्र।

विषय : Water proofing treatment of the Open Air Theatre at NIT

Kurukshetra.

संदर्भ :

आपका पत्र संख्या CC/3506/781/6760 दिनांक 06.12.2017

महोदय,

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन जिसकी लागत रूपये 21,96,000/- हैं आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाया गया है। अतः आपसे अनुरोध है कि कार्य की मंजुरी भेजते समय "लेखा शीर्ष" जिसके अतंर्गत व्यय किया जाना है, सूचित किया जाए तथा अनुमोदित प्राक्कलन की एक प्रति भी संलग्न करें।

भवदीय,

संलग्न : उपरोक्त दो प्रतियों में।

(इंजी. चरणजीत पसरीजा) कार्यपालक अभियन्ता

कार्यपालक अभियन्ता करनाल केन्द्रीय मण्डल, के.लो.नि.वि, एन.डी.आर.आई कैम्पस, करनाल।

प्रतिलिपि:-

1. सहायक अभियंता, कुरूक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरूक्षेत्र को उनके पत्र सं० २४(८)/स.ई.कु./२०१८/४० दिनांक ०१.०२.२०१८ के संदर्भ में सूचनार्थ।

कार्यपालक अभियन्ता

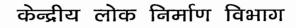
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GOVERNMENT OF INDIA



CENTRAL PUBLIC WORKS DEPARTMENT

एन.डी.आर.आई. कैम्पस करनाल-132001

N.D.R.I. Campus Karnal – 132001

Preliminary Estimate

Name of Work:-

Water proofing treatment of the Open Air

Theatre at NIT Kurukshetra.

Estimate Cost:-

Rs. 21,96,000/-

Client:-

NIT Kurukshetra.

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana Division: KCD

Branch: B & R Sub-Division: KCSD

NAME OF WORK: Water proofing treatment of the Open Air Theatre at NIT Kurukshetra.

MAJOR HEAD MINOR HEAD DETAIL HEAD

This preliminary estimate framed by Er. Ashok Kumar, Assistant Engineer, Kurukshetra Central Sub Division and further processed by Er. Mukesh Jain, Assistant Engineer (P), Karnal Central Division, CPWD, Karnal for Rs. 21,96,000/- i/c contingencies.

REPORT

History:

This preliminary estimate amounting to Rs. 21,96,000/- i/c contingencies has been framed to cover the probable cost of the above mentioned work for accord of A/A & E/S by the competent authority. The requisition for the above said work has been received from Prof. I/C (Estate & Construction) NIT, Kurukshetra vide letter No. CC/3506/781/6760 dated 06.12.2017. Hence this estimate has been framed.

Design & Scope:

The OAT stepped portion over the cafeteria is leaking during rains. The portion of steps which is on the earth filling covered area is not included in the estimate. Only stepped portion over the cafeteria is taken for water proofing.

Water proofing treatment is as followed.

- (i) Dismantling of existing kota stone on the horizontal & vertical surface of the steps.
- (ii) Cleaning the joints and removing plaster on brick work to made the surface feasible for plastering with 20mm cement plaster 1:2(1cement : 2 stone dust)
- (iii) Providing and laying two coots of polymer modified cementations water proofing as per item no. As as shown the estimate.
- (iv) The top horizontal & vertical surface shall not be covered with kota stone, so as to avoid opening of stone joints due to expansion & contraction due to change in climate. The rain water enters in the open joints and the source of leakage is not traceable. So the finished water proof surface can be used for seating purpose without any stone lining/flooring.
- (V) Covering with precoated galvanized sheet roofing of stair case sides area.

Specification:

CPWD Specification 2009 Vol. I & II.

T & P:

Shall be arranged by the contractor.

WC Establishment:

Shall be met out of contingencies.

Land:

Available.

Rate:

DSR - 2016

Method:

Through contract after call of tender.

Time:

03 Months (After receipt of A/A & E/S)

Cost:

Rs. 21,96,000/- i/c contingencies.

Note:-

The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change in scope, area, design and specifications etc., if so desired by the client at a later date. The execution of the work will depend upon the receipt of the funds through authorization or through allocation well in time during the financial years.

Assistant Engineer (P)
Karnal Central Division
CPWD, Karnal

Executive Engineer
Karnal Central Division
CPWD, Karnal

<u>Appendix-50</u> (Reference-Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

To

निदेशक, राष्ट्रीय प्रोद्योगिकी संस्थान, कुरुक्षेत्र।

Sub :- Execution of Deposit works.

Water proofing treatment of the Open Air Theatre at NIT Kurukshetra.

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following:

- 1. Full estimated cost of work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- 2. The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition /disposal of existing buildings/structures.
- 3. CPWD does not bind itself to complete the work within the estimated cost. If additional fund are required, the same will have to be provided by the client department. Necessary revised estimate will be submitted as and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- 5. Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- 7. The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in a) providing site for labour huts for the contractor's labour free of cost, b) providing free access to contractor's material and labour to the site of work. c) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity boards/authority.
- 9. CPWD may at its discretion allow the clients to deposit the funds in installments. In such case 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In case where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,

Executive Engineer, Karnal Central Division, CPWD, NDRI Campus, KARNAL-132001 (Hry.)

SL	DSR	Water proofing treatment of the Open Air Theatre at NIT Description	Qty	Unit	Rate	Amount
No.	No.	J. J. J. J. J. J. J. J. J. J. J. J. J. J	~-,			
1	10.2	Structural steel work riveted, bolted or welded in built up				
		sections, trusses and framed work, including cutting,			1	
		hoisting, fixing in position and applying a priming coat of				
	1	approved steel primer all complete.	150	kg	67.60	10140.0
2	12.5	Providing and fixing precoated galvanised iron profile				
		sheets (size, shape and pitch of corrugation as approved			.	
		by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated				
		thickness with zinc coating 120 grams per sqm as per IS:				
		277, in 240 mpa steel grade, 5-7 microns epoxy primer on			}	
		both side of the sheet and polyester top coat 15-18				
		microns. Sheet should have protective guard film of 25				
		microns minimum to avoid scratches during transportation				
		and should be supplied in single length upto 12 metre or				
		as desired by Engineer- in-charge. The sheet shall be				
		fixed using self drilling /self tapping screws of size (5.5x)]]		
		55 mm) with EPDM seal, complete upto any pitch in			ł	
		horizontal/ vertical or curved surfaces, excluding the cost		1	İ	
		of purlins, rafters and trusses and including cutting to size				
		and shape wherever required.			}	
			37.2	sqm	550.40	20475.0
3	13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	1031.1	sqm	285.30	294173.0
4	15.25	Dismantling stone slab flooring laid in cement mortar				
		including stacking of serviceable material and disposal of				
		unserviceable material within 50 metres lead.	1179.1	sqm	109.35	128935.0
5	15.56	Dismantling old plaster or skirting raking out joints and				
		cleaning the surface for plaster including disposal of				
		rubbish to the dumping ground within 50 metres lead.	1179.1	sqm	22.40	26412.0
6	15.6	Disposal of building rubbish / malba / similar				
		unserviceable, dismantled or waste materials by			ł	
		mechanical means, including loading, transporting,				
		unloading to approved municipal dumping ground or as				
		approved by Engineer-in-charge, beyond 50 m initial lead,				
		for all leads including all lifts involved.	70.75	cum	120.55	8529.0
7	22.7	Providing and laying integral cement based water				
i		proofing treatment including preparation of surface as				
ļ		required for treatment of roofs, balconies, terraces etc				
		consisting of following operations: (a) Applying a slurry				
		coat of neat cement using 2.75 kg/sqm of cement admixed		, ,		
		with water proofing compound conforming to IS. 2645				
ļ		and approved by Engineer-in-charge over the RCC slab				
Ì		including adjoining walls upto 300 mm height including				
		cleaning the surface before treatment. (b) Laying brick				
		bats with mortar using broken bricks/brick bats 25 mm to				
		115 mm size with 50% of cement mortar 1:5 (1 cement : 5)				
		coarse sand) admixed with water proofing compound				
		conforming to IS: 2645 and approved by Engineer-in-				
		charge over 20 mm thick layer of cement mortar of mix				
		1:5 (1 cement :5 coarse sand) admixed with water				
		proofing compound conforming to IS: 2645 and approved				
		by Engineer-in-charge to required slope and treating				
		similarly the adjoining walls upto 300 mm height				
		including rounding of junctions of walls and slabs.				
		0 mg				

					······································		
		(c) After two days of proper curing applying a second					
		coat of cement slurry using 2.75 kg/ sqm of cement	,				
	!	admixed with water proofing compound conforming to IS					
	1	: 2645 and approved by Engineer- in-charge. (d)					
		Finishing the surface with 20 mm thick jointless cement					
1		mortar of mix 1:4 (1 cement :4 coarse sand) admixed with	l				
i		water proofing compound conforming to IS: 2645 and	l				
		approved by Engineer- in-charge including laying glass					
		fibre cloth of approved quality in top layer of plaster and					
		finally finishing the surface with trowel with neat cement					
1		slurry and making pattern of 300x300 mm square 3 mm					
		deep. (e) The whole terrace so finished shall be flooded					
	1	with water for a minimum period of two weeks for curing					
		and for final test. All above operations to be done in order			,		
ŀ		and as directed and specified by the Engineer-in-Charge:					
]	and as directed and specified by the Engineer-in-Charge.					
7.1	22.7.1	With average thickness of 120 mm and minimum					
/.1	22.7.1	thickness at khurra as 65 mm.	192.4	sam	1034.65	199067.00	
8	50.237/	Providing and laying two coats of polymer modified	192.4	Squi	1054.05	199007.00	
	NSR	cementitious waterproof flexible coating using base coat					
	TADIX	of cement slurry made with cement @ 1.75 kg/ sqm and					
	1	Acrocrete or equivalent (Acrylic based chemical)@ 1.00				1	
		kg/sqm after cleaning the surface thoroughly free of all					
		foreign particles such as laitance etc. and laying of fibre				ļ	
			,	,			
	1	reinforced mesh synthetic (over laps of joints of fibre					
		shall not be less than 10 cm) and top protective layer of				į	
		cement & slurry made with cement @ 1.58kg/sqm and					
	1	Acrocrete or equivalent (Acrylic based chemical) @ 0.83				.	
		kg /sqm and curing etc. complete as per the directions of					
		Engineer-in-charge. (The surface area of roof shall be					
		measured for payment. The work shall be carried out by					
		the specialized agency having experience in polymer					
		based water proofing work & specialized agency shall be					
	1	got approved by the Engineer-in-charge before execution					
		of work)					
			1031.1	sam	979.14	1009591.00	
		TOTAL	1031.1	sqm	7/7.14	1697322.00	
		Add Cost Index @3.92% (On Estimate Total 16,97,322.00)					
			3.92%			66535.00	
		TOTAL			(A)	1763857.00	
		Add Contingencies on (A) @	5.00%			88193.00	
		Add Labour Cess on (A) @	1.00%			17639.00	
		Add GST on (A) @ Add EPF on (A) @	12.00% 6.50%			211663.00 114651.00	
		Grand Total	0.50%			2196003.00	
		Sidila foldi			Say Rs.	21,96,000/-	
					24,10	,,,	
	14	Main					
	7	7		2	dif		
	Assistant Engineer (P)			Executive Engineer			
					al Central Div		
				C	PWD, Karna	al	

Balcony area () (march) Surface the through as her the ares average kick and the part of t Should Popular is the when above Cafatonia is to be texposed after Diamodling Kotishued kept with bandy structury to provid Enterpring waters in the open frish of Stone His (Total anea 1021- no 29m) Detail of measurements one as for sheet of D. a. measuret altadually

Plan showing open air threatin Stepped Postion to be treated with water prophing their ment

John Egenter NIT Kiepe Assorbend Engineers KCLO NOT KVRUINSHETEA Subject: Minutes of the meeting of Estate Affairs Committee held on 06.09.2018 in the office of Dean (P&D) & Chairman (EAC) at NIT, Kurukshetra.

A meeting of Estate Affairs Committee was held on 06.09.2018 at 03.30 PM onward in the office of Dean (P&D) to discuss the various issues related to Estate Section.

Following were present:

1.	Prof. D.K. Soni, Dean (P&D)	Chairman		
2.	Prof. S.M. Gupta, Prof. I/C(E&C)	Member		
3.	Prof. K.K. Singh, Prof. CED	Member		
4	Dr. Anil Dahiya, Faculty I/C (H&L)	Member		
5.	Dr. H.D. Chalak, Faculty I/C (S&C)	Member		
6.	Dr. Jayaram Nakka, Faculty I/C (EM&T)	Member		
7.	Prof. Surinder Deswal, Registrar	Special Invitee		
8.	Dr. Mohammad Firoz, Chief Audit Executive/ Prof. I/C (Acs.)	Special Invitee		
9.	Sh. S.N. Kaushik, A.E. (Civil)	Member & Convener		
10.	Sh. Ashish Choudhury, A.E. (Elect.)	Special Invitee		

Following issues were discussed and resolved as under:

- To discuss the requests received from the various departments regarding providing & fixing of vitrified floor tiles, chemical resistance tiles, wall tiles, kota stone flooring & false ceiling, aluminium partitioning in the shops & corridor of workshop & labs etc. in various departments
 - The requests received from the various Departments through different letters regarding providing & fixing of vitrified floor tiles, chemical resistance tiles, wall tiles, kota stone flooring & false ceiling, aluminum partitioning in the shops & corridor of workshop & labs etc. for their departments. The matter was discussed in the EAC meeting and it was resolved & recommended that the department wise estimate be prepared and the same be put up before EAC in its next meeting. So that priority of the works may be decided accordingly
- 2 To discuss the cost estimate for water proofing treatment of cafeteria of Open Air Theatre.

The cost estimate for water proofing treatment of cafeteria of Open Air Theatre was received for an amount of Rs.21,96,000/- from Executive Engineer (Civil) CPWD vide letter No. 20(142)/PS/KCD/2018/495 dated 6.2.2018 and same was discussed in the EAC meeting. The EAC resolved and recommended that the estimate be put up in the next B&WC for consideration & further approval of the competent authority

To discuss the request received from the SAS Officer vide letter No SP/18/26 dated 31.07.2018 - regarding water proofing treatment of changing room in Swimming Pool.

The request received from the SAS Officer vide letter No. SP/18/26 date 31.07.2018 - regarding water proofing treatment of changing room in Swimmin Pool. The matter was discussed in the EAC meeting and it was resolved an recommended that this item may be dropped.

To discuss the cost estimate for providing & fixing of fiber shed for th bicycle stand & path ways in Hostel No.-10 (Visvesvaraya Bhawan) & 60 seaters Girls hostel (Kalpna Chawala Bhawan) at NIT, Kurukshetra

The cost estimates for providing & fixing of fiber shed for the bicycle stand & pa ways in Flostel No.-10 (Visvesvaraya Bhawan) was received for an amount of R 66,25,300/- from Executive Engineer (Civil), CPWD vide letter N 20(142)PS/KCD/2018/493 dated 6.2,2018 & cost estimates for construction pathways in 600 seaters Girls hostel (Kalpna Chawala Bhawan) at Ni Kurukshetra was received for an amount of Rs. 31,69,300/- from Executing Engineer (Civil), CPWD vide letter No. 20(142)PS/KCD/2018/494 date 6.2,2018. Both the above estimates were discussed in the EAC meeting.

Also of Street

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Item No.25.12 To consider and approve the cost estimate for the repair work including Civil, Electrical and Audio System works in the Jubilee Hall & Senate Hall at NIT, Kurukshetra.

With reference to the above work, followings are the details of work was approved in its 19th Building & Works Committee meeting held on 11.09.2014 vide item no. 19.10 with the revised cost estimated of Rs. 2,20,11,080/-. Accordingly, the same was put up before the 30th Finance Committee meeting held on 19.09.2014. The Finance Committee decided as under:

"The Finance Committee authorized Chairman, BoG to approve the cost estimate after critically examining all essential items of all the three works ensuring that the total cost for each work does not exceed 50 lacs.

Further, the Chairperson advised that all the estimates received from the CPWD on the buildings be reviewed by Shri K.N. Rai, Consultant, who has enormous experience in this filed."

The same was approved by the Board of Governors of the Institute in its 34th meeting held on 19.09.2014. Accordingly, a letter was sent to CPWD for submission the revised cost estimated vide letter no. CC/173/7455 dated 17.12.2014 and again letters were sent to Superintending Engineer (Elect.) through Prof. I/C (EM) vide letters no. CC/3527/26/1124 dated 24.03.2015, CC/3527/65/1787 dated 21.05.2015 CC/3527/21/137 dated 11.01.2016 & CC/3527/274/4516 dated 16.05.2016 in which requested to re-submit the cost estimate without up-gradation of lighting and surveillance system and also advised to add two nos. projector for Jubilee Hall. The Superintending Engineer (Elect.), Chandigarh Central Electrical Circle was submit a revised cost estimate vide letter no. 23(130)/CCEC/2016-17/923 dated 20.05.2016 for an amount of Rs. 1,55,31,180/- for providing audio system in Senate Hall & Jubilee Hall. The same has been sent to Shri K.N. Rai, Consultant, who has enormous experience in this filed. In this regard the comments received from the Shri K.N. Rai through E-mail that "you may like to modify what has been given by CPWD because they have not followed latest available in the market" (details attached). Accordingly, the same has been conveyed to the Superintending Engineer (Elect.), CPWD, Chandigarh vide letter no. CC/3506/582/6482 dated 06.09.2016 to be reexamined as per the expert opinion of Sh. K.N. Rai, Former Chief Executive &

Advisor, Ministry of Defence, DRDO, New Delhi & Member of B & WC (copy enclosed).

Further, the matter was put up before the 22nd meeting of Building & Works Committee held on 19.09.2016 and decided as under:

"The Committee reviewed the revised estimate submitted by CPWD for the work of Providing Audio System in Board Room, Golden Jubilee Administrative Building including Jubilee Hall and Senate Hall at NIT, Kurukshetra and resolved that the estimates is on higher side and further resolved that this work shall be carried out by the Institute under their own arrangement."

Further, it is important to note that a request vide letter no. Gen-I/3797/6037 dated 28.11.2017 received from D.R. (GA & Legal) regarding for providing audio & video system in the Board Room Golden Jubilee Administrative Building. Accordingly, the work of providing audio system in Board Room, Golden Jubilee Administrative Building has been carried out by the Electrical Maintenance Section of the Institute.

The Hon'ble Director visited the site of Senate Hall & Jubilee Hall on 01.01.2019 alongwith Superintending Engineer (Elect.), Executive Engineer (Elect.), Executive Engineer (Civil), Registrar, Dean (IIR), Prof. I/C (E&C) & Prof. I/C (Store).

During the visit the matter was discussed in detail regarding repair work including Civil, Electrical and Audio System in the Jubilee Hall and Senate Hall and decided that cost estimate for the above work may be obtained from CPWD. Accordingly, a letter was sent to Executive Engineer (Civil) & (Elect.), CPWD, Karnal through Prof. I/C (E&C) vide no. CC/3527/17/132 dated 07.01.2019 regarding to submit the cost estimate for the above said works.

In reference to the above said letter, Executive Engineer (Elect.), CPWD Karnal intimated vide letter no. 20(38)/KCED/2019/101 dated 17.01.2019 that the preliminary cost estimate for repair in Senate Hall and Jubilee Hall for an amount of **Rs. 90,01,020/-** and **Rs. 1,17,46,700/-** respectively has already been submitted to the Institute vide letter no.23(130)/CCEC/2013-14/1142 dated 08.09.2014. Further, the Executive Engineer (Civil), CPWD Karnal submitted a

cost estimate for an amount of **Rs. 58,37,400/-** vide letter no. 20(NIT)/PS/KCD/2018/ 532 dated 18.02.2019 for the repair of Senate Hall and Executive Engineer (P), Chandigarh Central Circle submitted a cost estimate for an amount of **Rs. 1,45,12,000/-** vide letter no. CCC/23(4515)W-III/2018-19/391 dated 20.02.2019 for the renovation of Jubilee Hall.

Accordingly, the matter was put up before the competent authority of the Institute for approval of the preliminary cost estimate for an amount of **Rs. 4,10,97,120**/- (Rs. 90,01,020/- + Rs. 1,17,46,700/- + Rs. 58,37,400/- + Rs. 1,45,12,000/-) for the repair work including civil, electrical and audio system works in the Jubilee Hall & Senate Hall at NIT, Kurukshetra, so that the same may be putup before the Building & Works Committee of the Institute in its ensuing meeting.

The Building & Works Committee may consider and approve the preliminary cost estimate for an amount of Rs. 4,10,97,120/- for repair work including civil, electrical and audio system works in the Jubilee Hall & Senate Hall at NIT, Kurukshetra.

moreting. Associate, the BSAVC approved the covised cost estimate for 35, 54,70,5007-

them No. 19.9 To consider & approve the Cost Estimate for the provision of vitrified floor tiles in office chambers, class rooms and laboratories of various departments in the institute and Chemistry Deptt., Room no. 6-222, class rooms and labe in Electrical Engg. Department at NIT

Kurukshetra

Members observed that the matter has not been recommended by the Estate Atlants Compartice. Therefore, it was resolved that the same be referred to EAC for its decision in the matter before bringing a as an agenda stom to B&WC.

Item No. 19.10 To consider & approve the revised Cost Estimate for providing audio system in Board Room, Golden Jubilee Administrative Building including Jubilee Hall & Senate Hall at NIT Kurukshetra

The BaWC debierated on the matter where Professor hicherge (EM) apprised that the existing audio systems in the Senete and Jubilee Halls are not innercoming properly and have audived their unitry. These require periods report and magnetises and despite that they have become unreliable. Therefore, audio systems need to be replaced/upgraded. Further, the Board Board of Golden dathlee Administrative Building does not have any audio system which creates deficialises to the conduct of official meetings.

After due Jespergions on the matter, the B&WC approved the revised cost estimate amounting to Rs. 2,30,11,080/- for providing audio system in she Pound. Rosen of Golden Jubilee Administrative Building and replacement/upgreciation of audio systems installed in Senate Ball and Jubilee Ball, of the country.

Item No. 19.11 To consider & approve the Cost Estimate for providing peripheral road along the external boundary wall of the institute for security and maintenance purpose at NIT Kurnisheim

The B&CCC deliberated on the matter where it was pointed out by SE (E), CPWD that construction of peripheral road would increase the covered area of the inscript, whereas RIT Europeabetrs needs to most RIA (Soviconocontal Impact Assessment) requirement of MOSE (Minasov of Environment) and Pocests) of it

NATIONAL INSTITUTE OF TECHNOLOGY

(Under the Ministry of HRD, Govt. of India) **KURUKSHETRA-136119**

No. Acs./2014/1294

Dated: 25.11.2014

NOTIFICATOIN

The Finance Committee of the Institute in their 30th meeting held on 19.09.2014 has recommended as under:-

"The Finance Committee made the following observations:

- The Finance Committee desired that alongwith the budget for the financial year in respect of the Institute should be presented in the format prescribed by the Ministry as Plan Grant, Non- Plan Grant and progress report of ongoing construction works to be placed in each Finance Committee Meeting to get an overall picture of the works in the Institute.
- The cost estimate for works presented in the Building and Works Committee be realistic preferably based on defined scope of work and preliminary drawings.
- Item no. 19.6, 19.8, 19.13 were recommended by Finance Committee to Board of Governors for approval.
- Under item 19.7 and 19.14 of Building and Works Committee, Finance Committee desired the approved cost by Building and Works Committee be revisited as the cost of construction per sq. meter is quite on higher side.
- Under item 19.10 the Finance Committee authorized Chairman, BoG to approve the cost estimate after critically examining all essential items of all the three works ensuring that the total cost for each work does not exceed 50 lacs. Further, the Chairperson advised that all the estimates received from the CPWD on the buildings be reviewed by Shri K. N. Rai, Consultant, who has enormous experience in this field."

The above decision is circulated for compliance reference decision of the Board of Governors.

Deputy Registrar (Accounts)

Near (Estate)

Note of the second of the se

ii) To consider and approve the minutes of 30th meeting of the Finance Committee, National Institute of Technology, Kurukshetra held on 19.09.2014.

The Board confirmed the minutes of the 30th meeting of the Finance Committee of National Institute of Technology, Kurukshetra held on 19.09.2014.

This is for your reference, record and further necessary action in the

Encl: Agenda Item

matter.

(Shyam Narayan) Registrar

√. Dean/(Estate)

Deputy Registrar (GA & L)
 Deputy Registrar (Accounts)

Broke July

Subject:

Renovation work including civil, electrical and audio system works in the Jubilee Hall & Senate Hall at NIT, Kurukshetra.

With reference to the above work, followings are the details of work was approved in its 19th Building & Works Committee meeting held on 11.09.2014 vide item no. 19.10 with the revised cost estimated of Rs. 2,20,11,080/-. Accordingly, the same was put up before the 30th Finance Committee meeting held on 19.09.2014.:The Finance Committee decided as under:

Page 1 to 4

"The Finance Committee authorized Chairman, BoG to approve the cost estimate after critically examining all essential items of all the three works ensuring that the total cost for each work does not exceed 50 lacs.

Further, the Chairperson advised that all the estimates received from the CPWD on the buildings be reviewed by Shri K.N. Rai, Consultant, who has enormous experience in this filed."

The same was approved by the Board of Governors of the Institute in its 34th meeting held on 19.09.2014. Accordingly, a letter was sent to CPWD for submission the revised cost estimated vide letter no. CC/173/7455 dated 17,12,2014 and again letters were sent to Superintending Engineer (Elect.) through vide letters no. CC/3527/26/1124 dated 24.03.2015, Prof. I/C (EM) CC/3527/65/1787 dated 21.05.2015 CC/3527/21/137 dated 11.01.2016 & CC/3527/274/4516 dated 16.05.2016 in which requested to re-submit the cost estimate without up-gradation of lighting and surveillance system and also advised to add two nos. projector for Jubilee Hall. The Superintending Engineer (Elect.), Chandigarh Central Electrical Circle was submit a revised cost estimate vide letter 23(130)/CCEC/2016-17/923 dated 20.05.2016 for an amount of Rs. 1,55,31,180/- for providing audio system in Senate Hall & Jubilee Hall . The same has been sent to Shri K.N. Rai, Consultant, who has enormous experience in this filed. In this regard the comments received from the Shri K.N. Rai through Email that "you may like to modify what has been given by CPWD because they have not followed latest available in the market" (details attached). Accordingly, the same has been conveyed to the Superintending Engineer (Elect.), CPWD, Chandigarh vide letter no. CC/3506/582/6482 dated 06.09.2016 to be re-examined as per the expert opinion of Sh. K.N. Rai, Former Chief Executive & Advisor, Ministry of Defense, DRDO, New Delhi & Member of B & WC (copy enclosed).

Further, the matter was put up before the 22nd meeting of **B**uilding & Works Committee held on 19.09.2016 and decided as under:

Pyr 37-34

"The Committee reviewed the revised estimate submitted by CPWD for the work of Providing Audio System in Board Room, Golden Jubilee Administrative Building including Jubilee Hall and Senate Hall at NIT, Kurukshetra and resolved that the estimates is on higher side and further resolved that this work shall be carried out by the Institute under their own arrangement."

Further, it is important to note that a request vide letter no. Gen1/3797/6037 dated 28.11.2017 received from D.R. (GA & Legal) regarding for providing audio & video system in the Board Room Golden Jubilee Administrative Building. Accordingly, the work of providing audio system in Board Room, Golden Jubilee Administrative Building has been carried out by the Electrical Maintenance Section of the Institute.

The Hon'ble Director visited the site of Senate Hall & Jubilee Hall on 01.01.2019 alongwith Superintending Engineer (Elect.), Executive Engineer (Elect.), Executive Engineer (Civil), Registrar, Dean (IIR), Prof. I/C (E&C) & Prof. I/C (Store).

Conti.....

Page 5-19

Page 10- 20

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Page 32

During the visit the matter was discussed in detail regarding renovation work including Civil, Electrical and Audio System in the Jubilee Hall and Senate Hall and decided that cost estimate for the above work may be obtained from CPWD. Accordingly, a letter was sent to Executive Engineer (Civil) & (Elect.), CPWD, Karnal through Prof. I/C (E&C) vide no. CC/3527/17/132 dated 07.01.2019. regarding to submit the cost estimate for the above said works.

In reference to the above said letter, Executive Engineer (Elect.), ! CPWD Karnal intimated vide letter no. 20(38)/KCED/2019/101 dated 17.01.2019 632 37-38 that the preliminary cost estimate for renovation in Senate Hall and Jubilee Hall for an amount of Rs. 90,01,020/- and Rs. 1,17,46,700/- respectively has already been submitted to the Institute vide letter no.23(130)/CCEC/2013-14/1142 dated 08.09.2014. Further, the Executive Engineer (Civil), CPWD Karnal submitted a cost estimate for an amount of Rs. 58,37,400/- vide letter no. 20(NIT)/PS/KCD/2018/ 532 dated 18.02.2019 for the renovation of Senate Hall and Executive Engineer (P) Chandigarh Central Circle submitted a cost estimate for an amount of Rş. 1,45,12,000/- vide letter no. CCC/23(4515)W-III/2018-19/391 dated 20.02.2019 for the renovation of Jubilee Hall.

48-56

In view of the above, if agreed, the Hon'ble Director may accord approval to putup the cost estimate of Rs. 4,10,97,120/- (Rs. 90,01,020/- + Rs. 1,17,46,700/- + Rs. 58,37,400/- + Rs. 1,45,12,000/-) (Rupees Four crores ten lacs ninety seven thousand one hundred twenty only) before the ensuing meeting of Building & Works Committee of the Institute for renovation work in Senate Hall & Jubilee Hall including Civil, Electrical and Audio System.

Submitted for approval please,

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA -136 119

No. CC/173/7455

Dated: 7-12-2014

To

Executive Engineer (Elect.), Central Electrical Division, CPWD, 22-A, Indira Colony, Karnal

Subject:-

Revised Cost Estimate for providing audio system in Board Room, Golden Jubilee Administrative Building and Replacement/up gradation of audio systems installed in Senate Hall and Jubilee Hall of the Institute.

The Finance Committee of the Institute in their 30th meeting held on 19.09.2014 has decided as under for the work as sighted in the subject.

"Under item 19.10 the Finance Committee authorized Chairman, BoG to approve the cost estimate after critically examining all essential items of all the three works ensuring that the total cost for each work does not exceed 50 lacs.

Accordingly, you are requested to submit the revised cost estimate at the earliest, so that early action may be taken.

Dean (Estate)

Copy to:

SS to Director for the kind information of the Hon'ble Director.

SS to Registrar for kind information of the Registrar.

SE (Elect.) Chandigarh Central Electrical Circle, CPWD, Kendriya Sadan, Sector-9-A. Chandigarh.

SE (Civil) Chandigarh Central Circle, CPWD, Kendriya Sadan, Sector-9-A. Chandigarh.

Executive Engineer (Civil), CPWD, Karnal Central Division, 448 Subhash Colony. Karnal-132021

Prof. I/C (E & C)

Prof. I/C (EM)

A.E. (Civil)

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No.0003537426 /11.24

Dated 5503, 2015.

Ta

Superintending Engineer (Electi), Chandigarh, Central Circle-1, CPWD, Kenduyu Sadan, Sector-9 A, Chandigarh

Subject: - To Suhmit the revised cost estimate for providing audio system in Board Room Golden Jubilee Administrative Building, Jubilee Hall and Senate Hall at NFT, Karrakshetra.

You have already submitted the above soul estimates vide other No. 200,300/CE CELC/2013-6/11/12 dated 08:09:2014 with the provision of andro system lighting of surveillance system, but we used and o system without upgraphton of Lighting and surveillance system. You are reducted to add two nos projector for Jubilee Fot. This is for your information and further necessary action please.

Prof. I/C (EM)

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- DS 18 Onest to last and information in the Honfild Director.
- 98 to Registra, building into enadone little Regis (a);
- 4. Dean (1981) (for a penial marion, phase
- Dean (Estate) for into a major picasa.
- Exceptive Fing near (Fleetic, Karnol Central Heating ID vision) CPWB: TFA. Indian Colony, Karnol
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- J. F. (Sect.).

Reminder

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Ma/CC/333/45/ 17x7

Date6,2(103-9013

149

Superintending (ingineer (ideat)). Chandigath, Central Chane-L. CPWD, Kendriya Sadan, Sector 9 A, Chandigath

Subject: - To Submit the revised cost estimate for providing audio system in Board Room Golden Jubilee Administrative Building, Jubilee Hall and Senate Hall at NIT, Kneukshetra.

Reference this office letter No. CC/3527/26/1124 cated 24:03:2015 vine which you are requested to be submit the above said estimate without up-gradation of lighting and surveillance system. You are also advised to add two has, projector or Jubilee Hall. This is for your information and further necessary action please.

Complete VC (EM)

Copy an

- 1. PS to Evactor, or kind information of the Henlak Disceton.
- PS to Registra, for kind information of the Registrar.
- Dean (P&D) for knat information, please.
- 4. Dean (listate) for information, please,
- Everetive Engineer (Sleet). Karnel Control Macarical Division. (1991) 22-A, Indian Colony, Karnal.
- Prof. PC (b&C).
- 7 Assistant (ngineer (Civil))
- R. T.E. (Picet.)

Reminder-II

NATIONAL (NSTITUTE OF TECHNOLOGY KURUKSHETRA

KE./QU/2587/2//13/

Dated. 11.01-2016

Τυ

The Superintending Sugmert (Coct), CPWD Chandagarh Certifol Carnell, Eriddiya Sadan, Sector, 9 A, Chandigarh

Subject: •

To submit the revised cost estimate for providing audio system in Board Room Golden Jubilee Administrative Building, Jubilee hall and Sonate Hall at NIT, Kurukshetra.

Retorence.

This lodice letter as: CC/3S27/26/1124 dated 24.03.3045 & CC/3S27/65:1787 dated 21.06.3015

In continuation to above said letters made: reference in which you are requested to re-submit the pinove said returnes without the gradulation of lighting and substitutions system. You are also obvised to a 'A' two new proportion or dubiter than

Tals is for your information and history processing action plasses

Prof. 1/C (EM)

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- Assubrise Engineer Colors, CPWD. Koron. Central Physical Division, 27 A. Hodita.
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NATIONAL INSTITUTE OF TECHNOLOGY RURCESHETRA

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The September highling agencies of the 1 Color September and September 2 A, Chapter 2 A. Chapter 2 A.

Subject. - To submit the revised cost estimate for providing undin system in Board Room Golden Jubilee Administrative Building, Jubilee half and Senate Half at ATT, Kurukshetra

30 months. This follows be on the active C/2027/26/11/34 dated 24.03.3005 CC/28327/65/11/37 dated 21.05.20 at \$1.03/3507/2071 June 10.01.2016.

in continuation to also a sold letters, it the releasing probability of a composited to obscubie, the observation is made without up gradual conductivity explains fixture space. Menture is a proposed to add two missiph position to the form will

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भारत सरकार **GOVERNMENT OF INDIA**

केन्द्रीय लोक निर्माण विभाग

CENTRAL PUBLIC WORKS DEPARTMENT

कार्यालयः अधीक्षण अभियन्ता (वै०) चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल, कें ०लो ०नि०वि०, सेक्टर-९(ए), चण्डीगढ़-160017

Office of the: Superintending Engineer (E), Chandigarh Central Elect. Circle, CPWD, Sector-9(A), Chandigarh-160 017 Email:- seeccec.chd.cpwd@nic.in

सं0.23(130)/च0कै0वै0परि0/2016-17/ १ १८

दिनांक -20/5/16

То

The DEAN National Institute of Technology. Kurukshetra (Haryana).

Quantil 23.05.2016

Revised preliminary estimate for the works:-

1) Providing Audio System in Jubilee Hall at NIT Kurukshetra - amounting to Rs.77,54,565/-.

2) Providing Audio System in Senate Hall at NIT Kurukshetra - amounting to Rs.77,76,615/-.

3) Providing Audio System in Board Room of New Admn. Block Kurukshetra - amounting to Rs.12,63,360/-.

Your office letter No.CC/3527/274/4516 dated 16.05.2016. Ref:

In referenced to above referred letter, please find enclosed revised preliminary estimates for above subjected works submitted to your office to have Administrative Approval, and Expenditure Sanction from the competent authority.

The copies of the preliminary estimates duly approved may be sent to this office for further necessary action.

Encl: As stated

अधीक्षण अभियन्ता (वै०)

चण्डीगढ केन्द्रीय वैधूत परिमंडल

के.लो.नि.वि., चण्डीगढ़।

Copy to:

1. The Executive Engineer (E), Karnal Central Electrical Division, CPWD, Karnal with the copies of revised preliminary estimates.

GOVT. OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana E...nch: E&M Circle: CCEC

Division: KCED Karnal

N/W:

Providing Audio System in Jubilee Hall at NIT Kurukshetra.

Head of Account:

Deposit Work

This preliminary estimate has been framed by Er. Lakhbir Singh, Executive Engineer (Electrical), Karnal Central Elect. Division, CPWD, Karnal and processed in the office of Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs.77,54,565/- including contingencies.

REPORT

History:- This preliminary estimate amounting to Rs.77,54,565/- including contingencies has been framed to cover the cost of above cited work for obtaining Administrative Approval & Expenditure Sanction from the competent authority. The estimate has been prepared as per requisition received from DEAN (Estate), National Institute of Technology, Kurukshetra vide letter No.CC/58/1955 dated 11.04.2014.

Design & Scope: The following provisions have been kept in this preliminary estimate:-

Audio System

- a) Compact line Array element.
- b) 80' subwoofer.
- c) OEM Array frame.
- d) 15' 2 way powered stage monitor loud speaker.
- e) Wall mount loud speaker.
- f) Wall mount under balcony speaker.
- g) Power amplifier.
- h) Channel system.
- i) Digital signal processor & audio interface.
- j) Vocal microphone.
- k) Corded instrument micro phone.
- I) Hand held wireless Mic system.
- m) Wireless Mic lapel.
- n) Free standing gooseneck Mic.
- o) DVD/ CD player.
- p) Customized rack, and necessary cabling etc.

Visual System

- a) 5000 ANSI lumes UL/EN Listed projector with 3LCD with motorized lift.
- b) Wall Mounted, motorised projection Screen, 150" Diagonal.

Method:

Through contract by call of tenders.

Rates:

Market Rate

Time:

6 Months

Cost:

Rs.77,54,565/- including contingencies

Assistant Engineer (€)P

Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

Executive Engineer (E)P Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

Superintending Engineer (E) Chandigarh Cent. Elect. Circle CPWD, Chandigarh.

PRELIMINARY ESTIMATE

N/W: Providing Audio System in Jubilee Hall at NIT Kurukshetra.

S.No.	Description of Item	Qty.		Rate	Unit	Amount
	SUB-HEAD-I - AUDIO SYSTEM					
1	Supplying, Installation, Testing and Commissioning of Compact Line array element having 2x 8"LF ,4 x HF/MFdrivers(min1") with Frequency Range (-10 dB): 55 Hz – 20 kHz; Frequency Response(+/-3 dB):67Hz-19kHz, Power Handling pk. 1200W or more complete as required.	10	Nos	410000.00	Each	4100000.00
2	Supplying, Installation, Testing and Commissioning of permanent Install Dual 18" Subwoofer with Freq. Response (-3 dB):50 Hz - 160Hz, Freq. Range1 (-10 dB): 40 Hz - 300Hz or better; Power Handling pk:>=4000W complete as required.	2	Nos	170000.00	Each	340000.00
3	Supplying, Installation, Testing and Commissioning of OEM array frame coupling bracket for speaker complete as required.	2	Nos	100000.00	Each	200000.00
4	Supplying, Installation, Testing and Commissioning of 15" two way powered stage monitor Loudspeaker having frequency range of 50Hz - 20kHz (-10dB), SPL Nominal - Max SPL 131dB SPL complete as required.	. 2	Nos	110000.00	Each	220000.00
5	Supplying, Installation, Testing and Commissioning of wall mount loudspeaker with dual 6" LF, single 1"HF driver, IP rated with Built-in LMT; Frequency Response (-10.dB) 65 Hz -20 kHz. complete as required	2	Pairs	70000.00	pair	140000.00
6	Supplying, Installation, Testing and Commissioning of wall mount Under balcony speaker with single 8" LF, 1"HF driver with Frequency Response (-10 dB) 70 Hz – 20 kHz and the Sensitivity of 93 dB or more complete as required.	2	Nos	80000.00	Each	160000.00
7	Supplying, Installation, Testing and Commissioning of Dual channel power amplifier for Main FOH Speaker complete as required.	1	No.	80000.00	Each	80000.00
8	Supplying, Installation, Testing and Commissioning of Class I/ClassTD/Class H Dual channel power amplifier complete as required.	3	Nos	160000.00	Each	480000.00
9	Supplying, Installation, Testing and Commissioning of Number of Channels system complete as required.	1	job	70000.00	job	70000.00
10	Supplying, Installation, Testing and Commissioning of Digital Signal Processor with 2 x XLR IN, electronically balanced audio input,6 x XLR OUT, complete as required.	1	No.	,130000.00	Each	130000.00

S.No.	Description of Item	Qty.		Rate	Unit	Amount
<u>1</u>	Supplying, Installation, Testing and Commissioning of 22 channel Mixer with Digital Audio interface with 4 input channel & 4 output channels complete as required.	1	No.	290000.00	Each	290000.00
12	Supplying, Installation, Testing and Commissioning of Corded Vocal Microphone with Dynamic Neodymium Magnet microphone element complete as required.	3	Nos	10000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of Corded Instrument Microphone with Self Biased condensor microphone element complete as required.	3	Nos	10000.00	Each	30000.00
14	Supplying, Installation, Testing and Commissioning of Handheld Wireless Mic system that has a min of 14-hour battery life from two AA alkaline batteries complete as required.	3	Nos	50000.00	Each	150000.00
15	Supplying, Installation, Testing and Commissioning of Wireless Mic Lapel with condenser, frequency response 100Hz-15kHz complete as required.	2	Nos	50000.00	Each	100000.00
16	Supplying, Installation, Testing and Commissioning of Freestanding Gooseneck Mic with base complete as required.		Nos	40000.00	Each	80000.00
17	Supplying, Installation, Testing and Commissioning of DVD/CD player including connections etc. as required.		No.	7500.00	Each	7500.00
18	Supplying, Installation, Testing and Commissioning of customised rack for above equipments.		No.	. 50000.00	Each	50000.00
19	Providing necessary cabling, connector sets, brass groumets, testing etc. as required.		Job	200000.00	Job	200000.00
	Total SH-I					6857500.00
1	SITC of 5000 ANSI lumes UL/EN Listed projector with 3LCD, Native WUXGA 1920x1200 resolution, HD Base					
	T, 10-bit video processing for natural and smooth color tone and video playback ,Contrast 2000:1,Acoustic Noise 28db, Manual zoom, focus and lens shift, Ships with a zoom lens of appropriate size as per site condition and projector location from screen, Picture-by-Picture (PbyP).		No	370500.00	Each	370500.00
2	SITC of motorised lift for the above projector as per site requirement including providing remote and intigration with auditorium control system.		No_	71100.00	Each	71100.00
3	SITC of Wall Mounted, motorised projection Screen, 150" Diagonal as per site requirement including providing remote and intigration with auditorium control system.		No	86200.00	Each	86200.00
	Total SH-I					527800.00

S.No.	Description of Item	Qty.	Rate	Unit	Amount			
	ABS	TRACT OF COST						
	SUB-HEAD-I - AUDIO SYSTEM				6857500.00			
	SUB-HEAD-II - VISUAL SYSTEM				527800.00			
				Total	7385300.00			
	Add contingencies @5%							
		1		Grand Total	7754565.00			

Assistant Engineer (E)P
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

Executive Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.

Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

GOVT. OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Harvana Branch: E&M

Circle: CCEC

Division: KCED Karnal

N/\/V:

Providing Audio System in Senate Hall at NIT Kurukshetra.

Head of Account:

Deposit Work

This preliminary estimate has been framed by Er. Lakhbir Singh, Executive Engineer (Electrical), Karnal Central Elect. Division, CPWD, Karnal and processed in the office of Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs.77,76,615/- including 5% contingencies.

REPORT

History:- This preliminary estimate amounting to Rs.77,76,615/- including 5% contingencies has been framed to cover the cost of above cited work for obtaining Administrative Approval & Expenditure Sanction from the competent authority. The estimate has been prepared as per requisition received from DEAN (Estate), National Institute of Technology, Kurukshetra vide letter No.CC/58/1955 dated 11.04.2014.

Design & Scope: Following provisions have been kept in this estimate.

Audio System

- Delegate Units a)
- b) Central Control Unit.
- Extension power supply. c.) .
- Cabinet Speakers. d)
- e) Mixing Amplifier.
- Handheld cordless mike. f) _
- Lapel cordless mike. g)
- DCN cable h)
- i) Software system for Camera
- j) Software system for recording.
- Feed back suppressor. k)
- Audio mixer. 1)
- PTZ Camera m)
- Key Board Compact with joystick n)
- Allegiant matrix switcher 0)
- Customized rack, and necessary cabling etc. p)

Visual System

- a) 7000 ANSI lumes UL/EN Listed projector with 3LCD with motorized lift.
- b) Wall Mounted, motorised projection Screen, 150" Diagonal.

Method:

Through Contract

Rates:

Market Rate

Time:

6 Months

Cost:

Rs.77,76,615/- including 5% contingencies

Assistant Engineer 作)P

Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

Executive Engineer (E)P Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

Superintending Engineer (E) Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

PRELIMINARY ESTIMATE

Nr ∀: Providing Audio System in Senate Hall at NIT Kurukshetra.

S.No.	Description of Item	Qty.		Rate	Unit	Amount
	CUR UEAD LAUDIO OVOTEM					
1	SUB-HEAD-I-AUDIO SYSTEM Supplying, Installation, Testing and Commissioning of Delegate unit complete as required.	80	Nos	60000.00	Each	4800000.00
2	Supplying, Installation, Testing and Commissioning of Central control unit complete as required.	1	No.	310000.00	Each	310000.00
3	Supplying, Installation, Testing and Commissioning of Extension Power supply complete as required.	1	No.	160000.00	Each	160000.00
4	Supplying, Installation, Testing and Commissioning of Cabinet speaker complete as required.	10	Nos	9500.00	Each	95000.00
5	Supplying, Installation, Testing and Commissioning of mixing amplifier complete as required.	2	Nos	20000.00	Each	40000.00
6	Supplying, Installation, Testing and Commissioning of hand held cordless mike complete as required.	4	Nos	45000.00	Each	180000.00
7	Supplying, Installation, Testing and Commissioning of lapel cordless mike complete as required.	4	Nos	45000.00	Each	180000.00
8	Supplying, Installation, Testing and Commissioning of DCN cable complete as required.	1	Job	9000.00	Job	9000.00
9	Supplying, Installation, Testing and Commissioning of software system for Camera complete as required.	1	No.	150000.00	Each	150000.00
10	Supplying, Installation, Testing and Commissioning of software system for Recording complete as required.	1	No.	150000.00	Each	150000.00
11	Supplying, Installation, Testing and Commissioning of Feed Back Suppressor complete as required.	1	No.	50000.00	Each	50000.00
12	Supplying, Installation, Testing and Commissioning of Audio Mixer complete as required.		Nos	15000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of PTZ Camera 28X day night Indoor Camera complete as required.		No.	270000.00	Each	270000.00
14	Supplying, Installation, Testing and Commissioning of Key Board compact with joystick complete as required.	1	No.	90000.00	Each	90000.00
15	Supplying, Installation, Testing and Commissioning of Allegiant matrix switcher complete as required.	1	No.	110000.00	Each	110000.00
16	Supplying, Installation, Testing and Commissioning of customised rack for above equipments complete as required.		No.	25000.00	Each	25000.00

S No.	Description of Item	Qty.		Rate	Unit	Amount
1;	Providing necessary cabling, connector sets, brass groumets, testing etc. as required.	1	Job	100000.00	Job	100000.00
	Total SHI					6749000.00
	SUB-HEAD-II - VISUAL SYSTEM					
1	SITC of 7000 ANSI lumes UL/EN Listed projector with 3LCD, Native WUXGA 1920x1200 resolution, HD Base T, 10-bit video processing for natural and smooth color tone and video playback ,Contrast 2000:1,Acoustic Noise 28db, Manual zoom, focus and lens shift, Ships with a zoom lens of appropriate size as per site condition and projector location from screen, Picture-by-Picture (PbyP).		No	500000.00	Each	500000.00
			140	000000.00	Laoii	
2	SITC of motorised lift for the above projector as per site requirement including providing remote and intigration with auditorium control system.	1	No	71100.00	Each	71100.00
3	SITC of Wall Mounted, motorised projection Screen, 150". Diagonal as per site requirement including providing remote and intigration with auditorium control system.		No	86200.00	Each	86200.00
	Total SH-II					657300.00
	ABSTRAC	T OF COS	Т.			
	ADSTRAC	101000	<u> </u>			
	SUB-HEAD-I-AUDIO SYSTEM		<u> </u>			6749000.00
	SUB-HEAD-II - VISUAL SYSTEM					657300.00
					Total	7406300.00
•				Add continger	ncies @5%	370315.00
				G	rand Total	7776615.00

Assistan (Engineer (E)P)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

Executive Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.

Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

GOVT. OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana E inch: E&M

Circle: **CCEC**

Superintending Engineer (E)

CPWD, Chandigarh.

Chandigarh Cent. Elect. Circle

Division: KCED Karnal

Name of Work:-

Providing Audio System in Board Room of New Admn. Block at NIT

Kurukshetra.

Head of Account:

Deposit Work

This preliminary estimate has been framed by Er. Lakhbir Singh, Executive Engineer (Electrical), Karnal Central Elect. Division, CPWD, Karnal and processed in the office of Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs.12,63,360/- including contingencies.

REPORT

History:- This preliminary estimate amounting to Rs.12,63,360/- including contingencies has been framed to cover the cost of above cited work for obtaining Administrative Approval & Expenditure Sanction from the competent authority. The estimate has been prepared as per requisition received from DEAN (Estate), National Institute of Technology, Kurukshetra vide letter No.CC/58/1955 dated 11.04.2014.

Design & Scope: Following provisions have been kept in this estimate.

- 1) Digital Chairman Unit.
- 2) Digital delegate Units.
- 3) Discussion central control unit.
- 4) Wire less handheld/Wireless lapel/Podium mic
- 5) 240 W @ 4/100 V Ohm power amplifier
- High quality 4-inch Co-Axial Two Way 30 watt ceiling loudspeakers speaker
- 7) Lighting Automation.

Method:

Through Contract

Rates:

Market Rate

Time:

3 Months

Cost:

Rs.12,63,360/- including contingencies

Assistant Engineer (É)P

Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

Executive Engineer (E)P Chandigarh Cent. Elect. Circle

CPWD, Chandigarh.

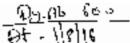
	PRELIMINARY ESTIMATE		· ~			
_						
.No.			Qty,	Rate	Unit	Amount
	Conference room (CAPACITY 30 SEATER)					
	SUB-HEAD I - Digital Conference System	_				
	JOB-NEAD 1 - Digital Contenence System					
 1	Flush Mounted Chairman unit with following features	_				
<u> </u>	The chairman can switch on his microphone without any limitation					
	The strain said strain, strain and spring the first strain, institution					
	The microphone request switch shall be flush mounted					
	The priority button of the chairman's microphone unit will mute all					
	activated delegate microphone units when the priority button is					
	released, all previously selected microphones are re-activated.					•
		<u> </u>				
	The chairman can switch off all active delegate microphone units					
	using the priority button They remain switched off until the chairman switches off his microphone unit by pressing the priority button.					
	switches of his microphone drift by pressing the priority button.	1	No.	72,000.00	Each	72,000.0
			110.	72,000.00	Edon	12,000.0
2	Flush Mounted Delegate Unit with following features	<u> </u>				
	On/Off or PTT (Push-To-Talk, as long as the microphone button is	_				
	pressed, the microphone unit is switched on).					
	The microphone request switch shall be flush mounted	1				
	Each selected microphone unit switches off the previously activated					
	microphone unit. Each participant can enable the microphone until					
	the maximum number of open microphones is achieved	İ				•
•	The talk time of the delegates can be pre-set. After the time has					
	elapsed the microphone unit switches off. A flashing illuminated ring					
	indicates the time when the microphone is switched off. The flashing				-	
	illuminated ring can also be effected by an external control command	15	Nos.	42,000.00	Each	630,000.0
		.10	1105.	42,000.00	Lacii	000,000.0
3	Central Control Unit for control of all digital audio channel with below	-				
	features					
	System check of all adjusted parameters					
	Status check for error diagnosis					
	Equalisation control for adjusting system's audio response					
	· Audio input for balanced line-level signals such as wireless					
	receiver, mixing consoles, telephone hybrids etc.					
	Unbalanced audio input for system extension					
	Record output for direct connection to a recording system					
	• RS 232 interface allows the operation of the discussion system via				ĺ	
	PC or other available media control systems such as AMX®,					
	Crestron®, Cue® etc.	ļ				
	to enable complete conference room control	├ -				
	One microphone line for a maximum of 32 microphone units		 			
	 Integrated power supply unit with control for up to 32 microphone units 					
	shall be expandable in future	-	 			
	Multifunction display for indication and configuration	-	-			
	Multifunction buttons for menu control and system configuration	-				
•	without PC					
	Master reset button to load default settings	-	-			
	Service RS 232 interface port		-			
	All inputs and outputs shall be plug-in type					
	RS 232 connection for external operation via PC or media contro	1				
			I		1	
		- 1	I		1	l .

	Control unit shall be 2 U-housing, suitable for 19" rack mounting	_1	No.	205,000.00	Each	205,000.00
4	Cable and connector assembly set	1	Lot	18,000.00	Lot	18,000.00
	Total SHI	_				925,000.00
	Total off					020,000.00
	SUB-HEAD II - Sound Reinforcement System					
1	High quality 4-inch CoAxial Two Way 30 watt (Tappings at 30,15,7.5,3.75) 100V Line ceiling loudspeaker speakers with frequency range of 65 - 20 KHz, -10 dB, sensitivity (1 W / 1 m) 86 dB SPL or better, delivering maximum SPL of 110 dB or better, in white color.		Nos.	. 8800.00	Each	35,200.00
	Wireless Hand Held Microphone sot		Nia	54000.00	C-ch	54,000,00
2	Wireless Hand Held Microphone set	1	No.	54000.00	Each	54,000.00
3	Power Amplifier with min 240W @ 4/100V Ohm	1	No.	25000.00	Each	25,000.00
4	1.0 Sq mm speaker cable	50	Mtrs.	80.00	Mtr.	4,000.00
	. Total SHII	-				118,200.00
	SH-III Lighting Automation system	_				
1	pdg Dali ballast and other dimming devices in the existing fixtures	_	LS	100,000.00		100,000.00
2 .	Supply, Installation , Testing & Commisioning of 8 channel control module having 2 channel dimming for 56watt T-5 fitting, Relay module for 2 fan ckt, 4 Relay module for AC 30 A, 1 Relay for projector 10 A, and 1 relay for projector screen of 10A, 4 x 5 Amps Dimmer Pack. + 4 x 20 Amps Relay Controller.		No.	36,000.00	Each	36,000.00
3	Supply, Installation, Testing & Commisioning of eight channel Din Drill Multicontroller as reqd	16	Nos.	8,000.00	Each	8,000.00
4	Supply, Installation, Testing & Commisioning of 10 key Touch panel, with inbuilt IR Receiver on key pad etc as required.	16	Nos.	8,000.00	Each	8,000.00
5	Supply, Installation, Testing & Commisioning of IR Remote control for scene control etc. as required.		Nos.	8,000.00	Each	8,000.00
	Total SHIII					160,000.00
_	ABATRACT OF COST	<u> </u>		:		
1	SUB-HEAD I - Digital Conference System	_				925,000.00
2	SUB-HEAD II - Sound Reinforcement System	_				118,200.0
3.	SH-III Lighting Automation system	-	-			160,000.0
					Total	1,203,200.00
				Add continger		60,160.00
				Gra	nd Total	1,263,360.00

Assistant Engineer (E)P
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

Executive Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.

Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.



director : <director@nitkkr.ac.in≥

/subject)

ánal Nairi Rai ≤kmai@yaheo co.uk>

Fri. Jul 29, 2016 at 10 56 AM

jedy-Ta. Kamal Nain Rai ≤kuroi@yonoo.co.⊍k≥

jlo "director@nitkknap.in" ≪director@nitkknap, n≥, "Dt. K. K. Singh" <kks.ngh6@rediffmatticiin≥

I have sent details of AV system required for your JUBILEE and SENATE HALLS. You may like to modify what has been given by CPWD because they have not followed latest. available in the market.

Regards KN Rai

Delan (Estate

F Gmall

Arun Goel <deanestatorilkkr@gmail.con≥

Ewd:

は神器は2000年になって、ことでは、こことでは、ここと

direntor i samodor@nitksgedink To Arun Goetk deanestat**ę**n(tkkr@gmail.com):

Fr. 50/29/2010 at 1

----- Forwarded message --------From **Kamal Nain Rai** ≤korai@yahoo oo uk≥ Date, En, Jul 29, 2016 at 10,56 AM Subject.

To "rifrector@riftkkr.go in" ridifector@ndkkr ad in a "O r K i K i Singh" kiks ngo0@red fimali com a

Dear Sir,

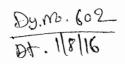
I have sent details of AV system required for your JUBILSE and SENATE HALLS.

You may like to modify what has been given by CPWD because they have not followed latest available in the market.

Regards KN Rai

-261-





director . <director@nitkkr.ac.in>

Fri, Jul 29, 2016 at 10:49 AM

PROVISION OF AUDIO SYSTEM IN 3 PLACES AT NIT KURUKSHETRA

Kamal Nain Rai <knrai@yahoo.co.uk>

Reply-To: Kamal Nain Rai <knrai@yahoo.co.uk>

To: "seeccec.chd.cpwd@nic.in" <seeccec.chd.cpwd@nic.in>

Cc: "director@nitkkr.ac.in" <director@nitkkr.ac.in>

I have gone through the details and suggest drastic changes in the system.

In case you need more information I can send some one to interact

Details are in the attached papers

KN Rai

Dy. No...147.3. Date. 1 8 1

On Friday, 22 July 2016, 17:08, Kamal Nain Rai <knrai@yahoo.co.uk> wrote:

Dear Sir,

Reference CPWD letter dated 20/5/16 addressed to Dean NIT Kurukshetra

I have gone through the details of three estimates for Jubille Hall, Senet Hall and Board Ro•m submitted by CPWD and find them in order.

Dean Infra may please look into it and put it upto the Director NIT to accord sanction to CPWD for further action.

The final cost will depend on tenders received on competitive basis.

Regards

KN Rai

2 attachments

NIT - KUK (1).docx 64K

NIT - KUK.xlsx

P/I (Em)

hunged 1.08-2016

AE (E)

-262-

JUBLIE HALL & SENATE HALL

Visual System

The Video System is incomplete in many aspects. The following parameters to be incorporate in the system.

- 1. The projection system selected is with 7000 ANSI Lumens, 3 x LCD Technology, which is obsolete. The latest technology is DLP (Digital Light Processing Technology) and the same is to be incorporated with 3 Chip & 7000 ANSI Lumens.
- 2. Switching device to be provided.
- 3. Multiple connectivity with analog and digital sources to be provided.
- 4. Wireless connectivity with laptops/ tablets to be provided.
- 5. HD Cameras to be provided.
- 6. Centralized control of all the audiovisual equipment's through with one single touch panel to be provided.
- 7. High Definition Twisted pair and transmitter

Audio System

The design of the Audio System is satisfactory but the estimation is on higher side. A Revised BOQ with almost similar specifications is attached with current prevailing market prices.

Ľ	JUBLIEE HALL				
s.NO	DESCRIPTION	TINU	QTY	RATE	AMOUNT
	Audio System			RATE	AMOUNT
1	Supply, Installation, Testing & Commissioning of of two wayNOS	NOS.	10	195,000.00	1,950,000.00
	passive tine array speakers hyadile; frequency response forzer 10.18.5 hz with Lf driver 2 \times 10 inch or above and with 1 \times 1.50 inch hf or above ; with minimum sensitivity of 99db &		J		
	max spl of minimum 136 db ; with 600 — 800 watt continious rms power or above. Makes : JBL / Martin Audio / Celto Acoustique / RCF or Equivalent				
2	Supply, Installation, Testing & Commissioning of of Sub-NOS. woofer. High Performance Compact Subwoofer, Dual 18" (4" VC), Max SPL (Peak): 140 dB / 1m, with minimum sensitivity of 101 dB Nominal Impedence 4 ohms; with 2400 watt continious rms power. Makes: JBL / Martin Audio / Celto Acoustique / RCF or Equivalent	NOS.	2	135,000.00	270,000.00
ω	Supply, Installation, Testing & Commissioning of of OEM array NOS. Frame coupling bracket for speaker complete as required.Makes: JBL / Martin Audio / Celto Acoustique / RCF or Equivalent	NOS.	2	50,000.00	100,000.00
4	Supply, Installation, Testing & Commissioning of of Stage NOS. monitor .High performance Stage monitors with 15 inch lf with 1.7" inch voice coil with sensitivity minimum 97 dB max spl 130 dB peak; with 600 watt continious rms power.Approved Make: JBLStx 812 / Martin Audio equivalent / Val Audio Equivalent / Celto Acoustique Equivalent / renkus Heinz Equivalent	NOS.	2	75,000.00	150,000.00

7	6 T N S S T C T N	m o r < o 2 c 2 v	s.NO	1
Supply, Installation, Testing & Commissioning of of Power NOS amplifier. Class H or D Dual Channel Professional Power amplifier, with 1300 watts power at 4 ohms per channel Minimum Damping factor > 450. Amplifiers for Main Speakers & Stage Monitors speakers. Approved Makes: crown xti 6002 /Powersoft Equivalent / LabGruppen Equivalent / VAL Audio Equivalent / martin audio Equivalent	Supply, Installation, Testing & Commissioning of of High NOS. Performance 2 way Speaker System for surround sound; with LF - 8", HF - 1" hf comprosser driver unit only not with tweetor , Max SPL Peak : 121dB 1m, RMS , Nominal Impedence : 8 ohms, Nominal Dispersion : 90 deg. x 60 deg, with Integrated flying points, for Surround Speakers with 150 watt continious rms power or more ; along speaker brackets along. Approved Make: JBL Ac18/95 / Martin Audio equivalent / Val Audio Equivalent / Celto Acoustique Equivalent / renkus Heinz Equivalent	Supply, Installation, Testing & Commissioning of of Wall NOS. Mount loudspeaker with LF 6", HF - 1" hf comprosser driver unit only not with tweetor, Max SPL Peak: 121dB 1m, RMS, Nominal Impedence: 8 ohms, Nominal Dispersion: 90 deg. x 60 deg, with Integrated flying points, for Surround Speakers with 100 watt continious rms power or more; along speaker brackets along. Approved Make: JBL Ac18/95 / Martin Audio equivalent / Val Audio Equivalent / Celto Acoustique Equivalent / renkus Heinz Equivalent	DESCRIPTION	<u>IUBLIEE HALL</u>
NOS.	NOS.	NOS.	CNII	
.00	. 4	4	QIY	
55,000.00	38,000.00	15,000.00	KALE	
440,000.00	152,000.00	60,000.00	AWIOON	

11	10	·	- ω	S.NO	11-1
Supply, Installation, Testing & Commissioning of 22 total NOS inputs mixing console with Effects, Mid-sweep 3-band mono channel EQ, 4-band stereo channel EQ, , four group buses, six auxiliary buses, and send buses for the two internal effect processors etc. complete with installation as per the site requirement. Make/Model: Soundcraft gb4 24 channel / Yamaha Equivalent / Mackie Equivalent / Allen & Heath Equivalent	Supply, Installation, Testing & Commissioning of Digital Signal NOS Processor, 4 balanced line inputs on plug-in barrier strips, 8 balanced outputs on plug-in barrier strips, Ethernet port for software configuration / control, serial port for third-party RS-232 remote control etc. complete with installation as per the site requirement. Make/Model: Dbx 4800 / XTA Equivalent / BiAmp Equivalent / Vtec Equivalent	Supply, Installation, Testing & Commissioning of of Power NOS Amplifier. Class H or Class D Dual Channel Professional Power amplifier, with 2000 watts power at 4 ohms per channel, Minimum Damping factor > 1000. Amplifiers for Subwoofers. Approved Makes: crown mai5002 / Powersoft Equivalent / LabGruppen Equivalent / VAL Audio Equivalent / martin audio Equivalent	Supply, Installation, Testing & Commissioning of of Amplifiers NOS for filler speakers & box area speakers.Approved Makes: crown xti 4002 /Powersoft Equivalent / LabGruppen Equivalent / VAL Audio Equivalent / Martin audio Equivalent	DESCRIPTION	JUBLIEE HALL_
NOS.	NOS.	NOS.	NOS.	UNIT	`
	1	2	2	QTY	
125,000.00	65,000.00	84,500.00	39,000.00	RATE	
125,000.00	65,000.00	169,000.00	78,000.00	AMOUNT	

		13	12	s.NO	112
15	14			ō	"
Supply, Installation, Testing & Commissioning of Microphone NOS. Stand etc. complete with installation as per the site requirement Make/Model: Ahuia / GS Customized.	Supply, Installation, Testing & Commissioning of Dynamic, NOS. Vocal / Instrument Wired Handheld Microphone, super cardioid polar, 50-16,000Hz, 100-14,000Hz (1m) etc. complete with installation as per the site requirement. Make/Model: Akg D5 / Audio technica Equivalent / Beyerdynamic Equivalent / Sennheiser	Supply, Installation, Testing & Commissioning of UHF Wireless NOS Lapel Microphone System, Receiver: Frequency range 506 - 530 MHz, 668 - 692 MHz, Switching bandwidth 18 MHz, SN ratio >100 dB, T.H.D. < 0.5% at 1 kHz, Modulation FM, Frequency response 50 Hz - 18,000 Hz etc. complete with installation as per the site requirement. Make/Model: Akg wms 470 series / Beyerdynamic Equivalent / Sennneiser Equivalent / Audio technica Equivalent	Supply, Installation, Testing & Commissioning of UHF Wireless NOS. Handheld Microphone System, Receiver: Frequency range 506 - 530 MHz, 668 - 692 MHz, Switching bandwidth 18 MHz, SN ratio >100 dB, T.H.D. < 0.5% at 1 kHz, Transmitter: Transducer type: Dynamic, Polar pattern: Supercardioid etc. complete with installation as per the site requirement. Make/Model: Akg wms 470 series / Beyerdynamic Equivalent / Sennheiser series Equivalent / Audio technica Equivalent	DESCRIPTION	JUBLIEE HALL
NOS.	NOS.	NOS	NOS	UNIT	
4	. 6	ω	ω	QTY	
1,500.00	7,200.00	29,000.00	29,500.00	RATE	
6,000.00	43,200.00	87,000.00	88,500.00	AMOUNT	

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			21	20	19	18	17	16	s.No	11
	Video System	TOTAL FOR AUDIO SYSTEM	Supply, Installation, Testing & Commissioning of of the floor NOS junction boxes on the stage for the various mic inputs with xlr inputs on the boxes Make Custom	Microphone Cable 23/0.76 ATC PVC Sheathed Make/Model:RM Kramer / Belden / Extron / Sommer	S.I.T.C of Speaker Cable, 14 AWG stranded (19x27) ETP high-RM conductivity copper conductors, PVC insulation, parallel: (1) tinned, (1) bare etc. complete with installation as per the site requirement. Make/Model: Kramer / Belden / Extron / Sommer	CABLING WORK	Supply, Installation, Testing & Commissioning of 36UNOS. Equipment Rack complete with power strip, cooling fan, back and front door (lockable) alongwith equipment rack tray & wheels etc. complete with installation as per site requirement. Make/Model: Rackom / Rittal / Dynamic / President	Supply, Installation, Testing & Commissioning of GooseneckNOS. Podium Microphone, complete with installation as per the site requirement. With on/off base switch. Make/Model: Akg Cgn 521sts / Beyerdynamic Equivalent / Sennheiser Equivalent / Audio Technica Equivalent	DESCRIPTION	JUBLIEE HALL
			NOS.	RM	, RM		NÓS.	NOS.	TINU	
			10	350	500		ь	2	QTY	
		TOTAL	2,200.00	110.00	75.00		40,000.00	13,500.00	RATE	
·		3,948,700.00	22,000.00	38,500.00	37,500.00		40,000.00	27,000.00	AMOUNT	

•

825,000.00	825,000.00	1	NOS.	Supply, Installation, testing & commissioning of Modular NOS. Switcher for with , redundant & hot swappable power supply 8 DVI/DP/VGA Inputs, 4 Output scaled (DVI/HDMI), , Matrix Configuration (Any input to any Output), Multiple image display on screen (upto 4 images with re-sizing) . Makes: Barco / Extron/ Delta equivalent.	4
55,000.00	55,000.00	<u>.</u>	NOS.	Supply, Installation, testing & commissioning of Motorised NOS Projection screen 150" diagonal with white Matt fabric, Seamless surface, 3 Step locking position Complete with LVC for Control through touch panel, as per the specifications, complete as required.Makes: Draper, Dalite equivalent, Harkness equivalent.	ω
139,500.00	139,500.00	1	NOS.	Supply, installation, testing & commissioning of Long ThrowNOS. Projection Zoom Lens to project desired size from (approx. throw required 3 - 4 :1) and as per the specifications, complete as required. Make: Digital Projection - 2.56 - 4.16:1 zoom HB / Barco equivalent / NEC equivalent.	2
1,325,000.00	1,325,300.00	÷	NOS.	Supply , Installation , Testing & Commissioning of 3 chip NOS: Digital Projection System with ,16:10 , Brightness Not Less Than 8000 (Lumens) , Contrast Ratio 2000:1 , Technology DLP , Resolution (Native / Max) WUXGA (1920 x 1200) , 3 D Ready , Connectivity 1 x Component Video, RGBHV, RGBS or RGsB (5 BNC) , 1 x Composite Video BNC),1 x S-Video (4-pin mini-DIN) 1 x VGA (D15 connector), for RS232 In/Out , Power Supply 90 ~ 254V / 50 ~ 60 Hz & Ceiling / Wall Mounting Hardware. Make : Digital Projection - Titan 930 WUXGA 3D / Barco equivalent / NEC equivalent .	·
AMOUNT	RATE	QTY	TINU	DESCRIPTION	S.NO
				JUBLIEE HALL	12

80	7	ō.	. м	s.No	11
Supply , Installation , Testing & Commissioning of HD Blue ray NÓS Player , MEDIA COMPATIBILITY: BLUE RAY, DivX, CD-R/-RW/DVD +R/+RW/-R/-RW, CD-R/R Playback,DVD+R/+RW, DVD+RDual Layer,Makes: Sony / Panasonic / Samsung	Supply, Installation, Testing & commissioning of Data Presenter with wireless transmission with 4 dongle to connect lap top / PC, Operating system Windows XP Pro, Vista Pro and Windows 7 Pro 32 & 64 bit, Windows 8 and 8 Pro Mac OS X 10.6, 10.7, 10.8, Input Resolutions Up to 2048x1536 (QXGA) as per the specifications, complete as required. Makes: Barco / Wovision equivalent.	Supply, Installation, Testing & commissioning of Cable Cubby NOS with pneumatic movement and mechanical latching mechanism, Compact size with rectangular bezel, Top surface in black anodized finishes, One CAT 6 RJ-45 network/Data/Phone connectors, One unswitched AC outlet, One Data input on HD 15 Connector, One input on HDMI, One input for S-Video. Makes: Extron/ Altinex/ Crestron equivalent.	Supply, installation, testing & commissioning of PTZ ,Camera NOS with HD Resolution Real High Definition Image with 1/2.3 inch or better, high quality HD CMOS sensor , 1920 x 1080 super high quality video ,10 x or more zoom with 12x or more digital zoom, Pan Range: 170deg or more With HDMI/DVI output interface for video & RS 232/ RS 422 for controls 10 or more preset position . Makes: Panasonic / Lumens / Bosch .	DESCRIPTION	JUBLIEE HALL
/NÓS.	Data NOS. nnect o and OS X (GA) Barco	NOS.	NOS.	TIND	
1	1	2	2	QTY	
7,200.00	268,200.00	13,275.00	113,850.00	RATE	
7,200.00	268,200.00	26,550.00	227,700.00	AMOUNT	

3,422,890.00	G.Total				:
2 22 800 00			,	Approved Make: President / Wall Rack / Cisco equivalent	٠.
			<u>-</u>	Amplifiers, Controller, Equalizer etc. Complete as Required	
-3.			<u>. </u>	prewired to accommodate Control Room equipments e.g.	
			:≤	nd isolator titted	
22,000.00	22,500.00		NOS.	Supply, Installation Testing & Commissioning 200 Rack with NOS	16
22 500 00	33 500 00			/ D-Link equivalent	
			, F-4	complete as per the specifications. Kramer / Extron equivalent	
10,000	49.50	400	RM	Supplying & drawing of Shielded Twisted Pair cable (CAT 6) IRM	15
19 800 00	10 50			Extron / Analog Way	
				raceway etc. complete as per the specifications. Kramer	
20,000.00	Too:00	200	/NOS.	Supplying & drawing of RGBHV Cable, in the conduit	14
36,000,00	100 00	3			
				with connectors at both ends. Size 5 mtr. Kramer / Extron /	
7,200.00	3,000.00	2	NOS.	Supply installation Testing & commissioning of HDMI Cables NOS	13
7 200 00				Kramer / Extron / Belden	
				with connectors at both ends. Size 1.8 mtr. Approved Make	
7,020.00	2,160.00	2	NOS.	Supply installation Testing & commissioning of HDMI Cables NOS	12
4 320 00	3 460 00			/Delta equivalent .	
	,			signals (Upto 100 meter). Approved Make : Extron / Krame:	_
				receiver convert Cat6 signal to HDMI & Control RS 232/IR	
04,000.00	Te,200.00	4	NOS.	Supply , Installation , Testing & Commissioning Twisted pair NOS.	11
64 800 00				/Delta equivalent .	
				signal (Upto 100 meter). Approved Make : Extron / Kramer	
				transmitter convert HDMI & control RS232/ IR signal to Cat6	
02,120.00	1/,280.00	4	NOS.	Supply . Installation , Testing & Commissioning Twisted pair NOS	5
60 120 00				: Crestron / AMX / Control4.	
				required IR Probes to control AV equipments. Approved Make	_
				System with 10" Touch panel , Control processor with	
325,000.00	325,000.00	н	NOS.	Supply Installation Testing & Commissioning of Touch Control NOS.	9
			-		
ZIN OOK	KAIE	QTY	TINU	DESCRIPTION	s.vo
TNIONA	5			JUBLIEE HALL	ļμ

			2	١	s.NO	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Supply, installtion, testing and commisssioning of Power NO. Supply Unit for Conferencing System 4 Supply, installtion, testing and commisssioning of Cat 6 cable RM with jack at all termination point in covered MS Race way 75 x	Supply, installtion, testing and commisssioning of Controller NOS. for Conferencing System equipped with 4 x 20 digital LCD display. Multi - Conference Management Modes (Normal / Chairman / Override / FIFO) , Connection Status Auto - Detecting , Microphone Automatic Switch - Off (Time can be adjusted) , Equipped with RS - 232/ 485 communication interface. Makes: DIS / Brahler / BXB / Bosch / Clearone / Televic or equivalent.	1 Supply, installtion, testing and commisssioning of Digital NOS. Conferencing System with 48 cm gooseneck steam, Desktop Base, LED indicator, Connectivity through CAT 6 Cable, Stereo earphone socket with volume control, Auto Mic off features complete with all required connectors. Makes: DIS / features in the control of	SENATE HALL AUDIO SYSTEM	GRAND TOTAL OF JUBLIE HALL (AUDIO & VIDEO SYSTEM)	DESCRIPTION	JUBLIEE HALL
R N	NOS.	NOS.			UNIT	
1 150		80			QTY	
					RATE	
65,000.00 120.00	175,000.00	25,000.00				
65,000.00 18,000.00	175,000.00	2,000,000.00		7,371,590,00	AMOUNT	

				Video System	
2,583,000.00	TOTAL	1,1			
				with min latetency of max 5ns , complete as per the specifications .Approved makes: BSS / Extron / Clearone / Biamp	
145,000.00	145,000.00	Н		8 Supply, Installation, Testing & Commissioning of of 12 input 8 output Digital Matrix Processor with min 8 channel of AEC &	∞
· · · · ·				phantom supply ,Phantom power16V (Mic only, switchable). Frequency response 125Hz to 15000Hz Distortion <.1% at 1Khz , Signal delay < 11 ms ,Up to 12dB additional gain .	
35,000.00	35,000.00	1	Ños.	Supply, Installation, Testing & Commissioning of of feedback Nos. suppressor with Balanced line or microphone input with	. 7
			•	amplifier, with 200 + 200 watts power at 8 ohms per channel, Minimum Damping factor. Approved Makes: crown mai5002 / Powersoft Equivalent / LabGruppen Equivalent / VAL Audio Equivalent / martin audio Equivalent	
55,000.00	27,500.00	2		6 Supply, Installation, Testing & Commissioning of OF Power	6
90,000.00	9,000.00	10		Supply, Installation, Testing & Commissioning of Two-Way Surface Mount Speakers with 5", complete as per the specifications. Approved Makes: Extron / QSC / JBL	ъ
AMOUNT	RATE	QTY	UNIT	DESCRIPTION	S.NO
				JUBLIEE HALL	ı

					0	
и	4	ω	2	14	S.NO	111
Supply, Installation, testing & commissioning of Modular NOS Switcher for with , redundant & hot swappable power supply 8 DVI/DP/VGA Inputs, 4 Output scaled (DVI/HDMI), , Matrix Configuration (Any input to any Output), Multiple image display on screen (upto 4 images with re-sizing) . Makes: Barco / Extron/ Delta equivalent.	Supply, Installation, testing & commissioning of Motorised NOS Projection screen 150" diagonal with white Matt fabric, Seamless surface, 3 Step locking position Complete with LVC for Control through touch panel, as per the specifications, complete as required.Makes: Draper, Dalite equivalent, Harkness equivalent.	Supply, installation, testing & commissioning of Motorised LiftNOS with drop upto 48", Load Capacity upto 25 Kg. Makes: Draper / Chief .	Supply, installation, testing & commissioning of Projection NOS. Zoom Lens to project desired size from (approx. throw required 2 - 3:1) and as per the specifications, complete as required. Makes: Digital Projection / Barco equivalent / NEC equivalent.	Supply , Installation , Testing & Commissioning of 3 chip NOS Digital Projection System with ,16:10 , Brightness Not Less Than 8000 (Lumens) , Contrast Ratio 2000:1 , Technology DLP , Resolution (Native / Max) WUXGA (1920 x 1200) , 3 D Ready , Connectivity 1 x Component Video, RGBHV, RGBS or RGsB (5 BNC) , 1 x Composite Video BNC),1 x S-Video (4-pin mini-DIN) 1 x VGA (D15 connector), for RS232 In/Out , Power Supply 90 ~ 254V / 50 ~ 60 Hz & Ceiling / Wall Mounting Hardware. Makes: Digital Projection / Barco equivalent / NEC equivalent	DESCRIPTION	JUBLIEE HALL
NOS.	NOS.	NOS.	NOS.	NOS.	ONI	
Ъ	Ц	1	1	ы	Q.T	
825,000.00	55,000.00	125,000.00	139,500.00	1,325,000.00	KAIL	
825,000.00	55,000.00	125,000.00	139,500.00	1,325,000.00	AWOONI	

		7	б	S.NO	11-1
Supply, Installation, Testing & Commissioning of HD Blue ray NOS.	Supply, Installation, Testing & commissioning of Data NOS. Presenter with wireless transmission with 4 dongle to connect lap top / PC, Operating system Windows XP Pro, Vista Pro and Windows 7 Pro 32 & 64 bit, Windows 8 and 8 Pro Mac OS X 10.6, 10.7, 10.8, Input Resolutions Up to 2048x1536 (QXGA) as per the specifications, complete as required. Makes: Barco / Wovision equivalent.	Supply, Installation, Testing & commissioning of Cable Cubby NOS. with pneumatic movement and mechanical latching mechanism, Compact size with rectangular bezel, Top surface in black anodized finishes, One CAT 6 RJ-45 network/Data/Phone connectors, One unswitched AC outlet, One Data input on HD 15 Connector, One input on HDMI, One input for S-Video. Makes: Extron/ Altinex/ Crestron equivalent.	Supply, installation, testing & commissioning of PTZ ,Camera NOS with HD Resolution Real High Definition Image with 1/2.3 inch or better, high quality HD CMOS sensor , 1920 x 1080 super high quality video ,10 x or more zoom with 12x or more digital zoom, Pan Range: 170deg or more With HDMI/DVI output interface for video & RS 232/ RS 422 for controls 10 or more preset position . Makes: Panasonic / Lumens / Bosch .	DESCRIPTION	JUBLIEE HALL
NOS.	NOS.	NOS.	NOS.		
	1-2	2	И	į	OTV
7,200.00	268,200.00	13,275.00	113,850.00		RATE
7,200.00	268,200.00	26,550.00	227,700.00		AMOUNT

3,547,890.00	Total				
22,500.00	22,500.00	· -	N OS	Supply, Installation Testing & Commissioning 20U Rack with NOS. Power indicator, power sockets and isolator fitted duly prewired to accommodate Control Room equipments e.g. Amplifiers, Controller, Equalizer etc. Complete as Required. Approved Make: President / Wall Rack / Cisco equivalent	16
19,800.00	49.50	400	RM	Supplying & drawing of Shielded Twisted Pair cable (CAT 6) .RM complete as per the specifications. Kramer / Extron equivalent / D-Link equivalent	16
36,000.00	180.00	200	NOS.	Supplying & drawing of RGBHV Cable, in the conduit / raceway etc. complete as per the specifications. Kramer / Extron / Analog Way	15
7,200.00	3,600.00	2	NOS.	Supply installation Testing & commissioning of HDMI Cables NOS. with connectors at both ends. Size 5 mtr. Kramer / Extron / Belden equivalent	14
4,320.00	2,160.00	2	NOS.	Supply installation Testing & commissioning of HDMI Cables NOS with connectors at both ends. Size 1.8 mtr. Approved Make : Kramer / Extron / Belden	12
64,800.00	16,200.00	4	NOS.	Supply , Installation , Testing & Commissioning Twisted pair NOS receiver convert Cat6 signal to HDMI & Control RS 232/IR signals (Upto 100 meter). Approved Make : Extron / Kramer /Delta equivalent .	12
69,120.00	17,280.00	4	pair NOS. Cat6 amer	Supply , Installation , Testing & Commissioning Twisted pair transmitter convert HDMI & control RS232/ IR signal to Cat6 signal (Upto 100 meter). Approved Make: Extron / Kramer / Delta equivalent.	11
325,000.00	325,000.00	1	NOS.	Supply Installation Testing & Commissioning of Touch Control NOS System with 10" Touch panel , Control processor with required IR Probes to control AV equipments. Approved Make : Crestron / AMX / Control4.	10
AMOUNT	KATE	QIY	UNI	DESCRIPTION	S.NO
				JUBLIEE HALL	

6,130,890,00		14. 57	1	GRAND TOTAL OF SENATE HALL (AUDIO & VIDEO SYSTEM)	: 25 12
AMOUNT	RATE	QTY	UNIT	NO DESCRIPTION	S.NO
				JUBLIEE HALL	111

NA CONAL INSTITUTE OF TROBNOLOGY KGRUKSMETRA

Na (00/0506/65%)

Dated no. 100 2016

To

The Super alencing Engineer (E) Chanoligath Central Chale, CPWD Kenthiya Sadar, Secte 9 A Chandidaya

Subject The Revised Politiciancy Establish to the works

(iProvious Audio System in Jabilee Hall at NEK for

Rs. 77 54,966%

(ii) Providing Audio System in Senate Bahlat NTK (or its 17773-618).(iii) Inoviding Audio System in Beard Room of New Admin. Prolifing.

51 MITK for Rs. 32 03,360/-

Professional Free calling tensions 13, 1906 at 17, 07 bit 17, 9.85 acted 20,05,2005

of a consense meanage of the Coullide decided from the relation additionary estimates respect to your field to be against to the relationship of the repeat opinion of San Kittlings above 2 that I sense on National Markey of the research 1950 Co. Nov. Opinion as automostic

This is the york portray for any highest real search as the please.

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- Liver, Schiller Georgie (Festi) CPWG Per Ding IDC is used ones of soft \$1.
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NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

Minutes of the 22nd meeting of Building & Works Committee, National Institute of Technology, Kurukshetra held on 19th SEPTEMBER, 2016 at 11.00 AM in the Board Room of Golden Jubilee Administrative Building of NIT, Kurukshetra.

The following were present:

1. Prof.V.K. Arora

Chairman

Director,

National Institute of Technology Kurukshetra

2. Shri K. N. Rai

Member

Former Chief Executive & Advisor Ministry of Defense (DRDO) C-4, 4112, Vasant Kunj New Delhi

3. Prof. V.K. Sehgal

Member

Dean (Planning & Development) National Institute of Technology Kurukshetra

4. Er. R. K. Sao

Member

Superintending Engineer (Electrical), Chandigarh Electrical Central Circle, CPWD KendriyaSadan, Sector-9A Chandigarh

5. Prof. Arun Goel

Special Invitee

Dean (Estate)
National Institute of Technology
Kurukshetra

6. Prof. V. P. Singh

Special Invitee

Prof-in-Charge (E&C)
National Institute of Technology
Kurukshetra.

7. Dr. Saurabh Chanana

Special Invitee

Prof- in- Charge (Electrical Maintenance) National Institute of Technology Kurukshetra

RAY

- Item 16.7 part at compliance report has been received from CPV/D vidor latter inc. 20,38)/KCE0/2016-2017/18829 loated ineicolatinal regarding the final inspection carried out by NIT. Europeatra and defects pointed out by inspection committee which were aiready conveyed to CPV/D for redification of the work of providing and installation of 16/20 nieter High Mass Lights at Sports Ground and various other location at NIT, Kurukshetra The Superintending Engineer (Elect.) assured that CPV/O will remove all defects by 31st. October, 2016 under intimation to the Institute.
- tem No. 19.4 The revised estimate to the work of Provision of Water Proofing Treatment of Existing Temade/Mod Phaska concreting-repair of parabolicopping and balconies and plastering of external wells in teaching and non-teaching trouses has been required from GPWD wide tetter no. CCC/03(4615)NH-3/1639 dated 13 08 2016 which is under scrutiny. The same will be put up before EAC in its ensuing meeting after scrutiny.
- Item No. 19.6 The work or providing of concentrial coic over the Institute occurristy for security purpose is in progress. The Executive Engineer (Crott). CITVO informed that the work shall be completed by \$1,10,2016.
- Item 19.10, The Committee reviewed the revised estimate submitted by CPWD for the work of Provious Audio System in Board Room, Colden Jubiled Admiristrative Building including Jubiled Hall and Senate Hall at NIT, Kurukshelra and resolved that the estimates is on higher side and further resolved that this work shall be parried out by the institute under their own arrangement.
- term 19 ft Estimate for the work of Phoviding Peripheral Road viologiche External Boundary Wall of the Institute for Security and Vaintenance Purpose at NIT, Eurokshetra has been received from CPWO vide letterine CCC/20(4):15(NT-3/1988) dated 24 68 2010 The same shall be put up before EAC in its ensuing injecting for further recommendation.



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

No.Gen-I/3797/ 6037

Dated:

Subject: Renovation work of Board Room of the Institute.

The renovation work of Board Room is being planned by the Institute. The following required specifications & schedule of the work as prepared by the Technical Experts are enclosed herewith:

- Specification of PVC Paneling & Work Station for Board Room
- Schedule of the work for providing Audio in the Board Room
- Schedule of the work for providing Video in the Board Room

The work may be executed as per the requirement.

for Director

Encl: As above

Prof.-in-Charge (Estate & Construction) 29.11-17

Faculty 11 (EM & T

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No./CC/3527/17/132

Dated: 07.01.2019

To

The Executive Engineer (Civil) CPWD, Karnal Central Division NDRI Campus (Near State bank of India) Karnal-132001

The Executive Engineer (Elect.) CPWD, 208-DHSIIDC, Sector-3 Karnal

Subject: -

To submit the cost estimate for the civil, electrical & audio system works in the Jubilee Hall, Senate Hall and Covering of Open Air Theatre at NIT, Kurukshetra

Reference:

This office letter No. CC/3527/816/6265 dated 28/31.12.2018

In continuation to letter under reference and as discussed with the Hon'ble Director during the visit on 01.01.2019 to execute the civil, electrical and audio system works in the Jubilee Hall, Senate Hall and Covering of Open Air Theatre. The Institute has already been submitted the document for preparing the cost estimate for the above said works.

It is therefore, requested to submit the cost estimate for the above said works at the earliest, so that the early action may be taken accordingly.

This may be treated as most urgent.

Prof. I/C (Estate & Construction)

Copy to:

- 1. Dean (P&D) for information please
- 2. A.E. (Civil)
- 3. A.E (Civil), CPWD
- 4. A.E. (Elect.), CPWD
- 5. SS to Registrar for kind information of the Registrar, NITK
- 6. SS to Director for kind information of the Hon'ble Director, NITK

अंतरास सरकार

मेन्द्रीय जिन्हा विविध्य विद्यान कामालय कार्यमालन इंग्डीनियर (तेतुन) करनाल मेन्द्रीय वेतुस सण्डल 203-डी, एक एस,पाई आई.दी,सी सीमार - ३, करानि = 132001 कार्यक्रिक्टण्डा स्टाह्म्ब्यक्रमार क्र



GOVE, OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT OFFICE OF THE EXECUTIVE PINGINEER(E)

NARNAL CENTRAL ELECTION CON

203-E. H.S I.I.B.C., SECTOR-3 KARNAL = 132301 (EL.): G184-2220460 (F.)

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мы 20(38/уксы)/2019/ | {Z/\

Τo,

Profession I/C (Estate & Construction).

National Institute of Technology.

Kurakshiptra.

Sub:

Proliminary Estimate for works in the Jubilee Hall and Senate Hall at NIT,

Kurukshetra.

Ref.

1) Your Office Letter No./CC/3527/816/6265 Dated: 31.12,2018

2) Letter No.23(130)/CC8C/2013-14/1142 Dated:-08.09.2014

Si.

In reference of above subject the Preliminary Estimate for the work indulated that & Science Hall was required. In this connection it is intensited that the Prelimit for the work has been submitted aboutly by the Competent Authority, vide referred letter at St. No. 2 (Pacifocopy and Issal).

Executive Engineer (F) Kansal Central Blect, Division CPWD, Carriel

Copy to:

 Trep Supply adending Progressiv(E), Chandigarth Central Electrical Circle, CPWO, Éandriya Suban 3rd Hoor, Sector- CA. Chandigarth 160017 for information please.

Executive Engineer (E)



7:

भारत रारकार GOVERNYSNYOF (YOIA क्रेस्टीय <u>लोक शिर्माण</u> विगट<u>र</u> CENTRAL PUBLIC WORKS DEPARTMENT



Office of the

Supermiending Engineer (E),

Chandigarh Central Fleut, Circle, CPWD, Sector-9[A), Chandigarh-168 619

Emuil: - sendeed alid gpwd@urc.in

প্রার্থনিত্র এইজ্বন জনিক্ষা (বীক) ফুল্টেন্ট স্বার্থীয় বীক্ষা এইফ্টিবর, জ্বলার্কিটিন, শীক্ষা-প্রায়, সময়াক্ষা-১৫০১১৪

สาย.23(\$30)กลอนใช้จ้องที่ใช/2013-14/ | โปนา>

विनाम - १८८ /६१/२०14

The OCAN (Estate), Not small first falls of Technology, Kursk theira (Harvana)

Suc. 250/eps Proliminary Estimate for the works:-

Providing Audio System in Jubilee Hall at NIT Kurukshotra, Rs.1,17,46,7007

Providing Audio System in Senate Hall at NT Kurukshetra, Rs.90,01,920%

 Providing Audio System in Board Room of New Attnin, Block at NIT Korokshetra - Ro., 12,63,3607-

Paril Mag. Letter No. CG/58/1955 autod 11.04.2014.

With reference to above referred letter, enclosed please and herewith 3 New preliminary satisfies for the aforesaid work for obtaining Administrative Approval and Expenditure Statistic Spinish competent authority.

The necessity of framing these preliminary estimates has been fully exprended in the necessity of the preliminary asomates.

The course of the prefinging estimates that approved analytic sent to this office for the research of the on deality and cating Head of Account.

-- १६७६० शत्रास

ाधांदारा अभिनेता (रेधूत) चर्ण्डीएक केन्द्रीन वेदल प्रतिसंहत

ਕੇਂਹ ਮੀਰ ਬਿੱਧ ਬਿਹਾ ਬਾਲੀਆਂ ਹੈ

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भारत सरकार GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT



कार्यालयः अधीक्षण अभियन्ता (वै०) चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल, के०लो०नि०वि०, सेक्टर–9(ए), चण्डीगढ़–160019

Office of the:
Superintending Engineer (E),
Chandigarh Central Elect. Circle,
CPWD, Sector-9(A), Chandigarh-160 019
Email:- seeccec.chd.cpwd@nic.in

सं0.23(130)/च0कै0वै0परि0/2013-14/ ।।५ >

То

The DEAN (Estate), National Institute of Technology, Kurukshetra (Haryana).

Sub: Revised Preliminary Estimate for the works:-

- 1. Providing Audio System in Jubilee Hall at NIT Kurukshetra. Rs.1,17,46,700/-.
- 2. Providing Audio System in Senate Hall at NIT Kurukshetra. Rs.90,01,020/-.
- 3. Providing Audio System in Board Room of New Admn. Block at NIT Kurukshetra Rs..12,63,360/-

Ref: Your Letter No.CC/58/1955 dated 11.04.2014.

With reference to above referred letter, enclosed please find herewith 3 Nos. preliminary estimates for the aforesaid work for obtaining Administrative Approval and Expenditure Sanction from the competent authority.

The necessity of framing these preliminary estimates has been fully explained in the history sheets of the preliminary estimates.

The copies of the preliminary estimates duly approved may be sent to this office for further necessary action clearly indicating Head of Account.

संलग्नः उपरोक्तानुसार

प्रतिलिपि:-

1. The Executive Engineer (E), KCED, CPWD, Karnal alongwith copies of the preliminary estimates with reference to his letter No.20(38)/KCED/DB/Karnal/2014/987 dated 28.05.2014.

्रिट**्रे** अधीक्षण अभियता (वैधुत)

GOVT. OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

Late: Haryana Branch: E&M Circle: CCEC

Division: KCED Karnal

Name of work:-

Providing Audio System in Jubilee Hall at NIT Kurukshetra.

Head of Account:

Deposit Work

This preliminary estimate has been framed by Er. Lakhbir Singh, Executive Engineer (Electrical), Karnal Central Elect. Division, CPWD, Karnal and processed in the office of Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs.1,17,46,700/- including contingencies.

REPORT

History:- This preliminary estimate amounting to Rs.1,17,46,700/- including contingencies has been framed to cover the cost of above cited work for obtaining Administrative Approval & Expenditure Sanction from the competent authority. The estimate has been prepared as per requisition received from DEAN (Estate), National Institute of Technology, Kurukshetra vide letter No.CC/58/1955 dated 11.04.2014.

Design & Scope: The following provisions have been kept in this preliminary estimate:-

Audio System

- a) Compact line Array element.
- b) 80' subwoofer.
- c) OEM Array frame.
- d) 15' 2 way powered stage monitor loud speaker.
- e) Wall mount loud speaker.
- f) Wall mount under balcony speaker.
- g) Power amplifier.
- h) Channel system.
- i) Digital signal processor & audio interface.
- j) Vocal microphone.
- k) Corded instrument micro phone.
- Hand held wireless Mic system.
- m) Wireless Mic lapel.
- ,n) Free standing gooseneck Mic.
- o) DVD/ CD player.
- p) Customized rack. and necessary cabling etc.

Stage Lighting, Auditorium Lighting and Automation.

- a) Internal Electrical Installations.
- b) Stage Lighting system with LED fixtures & touchpad control
- c) Smart lighting system for the Auditorium comprising of energy efficient fixtures with dimming option and lighting control system.
- d) Emergency lighting i/c Signages & Illuminated logo.

Method:

Through Contract by call of tenders.

Rates:

Market Rate 6 Months

Cost: .

Rs.1,17,46,700/- including contingencies

Assistant Engineer (E)P

Chandigarh Central Electrical Circle

CPWD, Chandigarh.

Superintending Engineer (E)

Chandigarh Central Electrical Circle

CPWD, Chandigarh.

	PRELIMINAR	Y ESTIMA	TE			
Na3 0	f Work: Providing Audio System in Jubilee Hall at NIT	Kurukshe	tra.			
S.No.	Description of Item	Qty.		Rate	Unit	Amount
•	SUB-HEAD-I - AUDIO SYSTEM					
1	Supplying, Installation, Testing and Commissioning of Compact Line array element having 2x 8"LF ,4 x HF/MFdrivers(min1") with Frequency Range (-10 dB): 55 Hz – 20 kHz; Frequency Response(+/-3 dB):67Hz-19kHz, Power Handling pk. 1200W or more complete as required.	10	Nos	410000.00	Each	4100000.00
2	Supplying, Installation, Testing and Commissioning of permanent Install Dual 18" Subwoofer with Freq. Response (-3 dB):50 Hz - 160Hz, Freq. Range1 (-10 dB): 40 Hz - 300Hz or better; Power Handling pk:>=4000W complete as required.	2	Nos	170000.00	Each	340000.00
3	Supplying, Installation, Testing and Commissioning of OEM array frame coupling bracket for speaker complete as required.	2	Nos	100000.00	Each	200000.00
4	Supplying, Installation, Testing and Commissioning of 15" two way powered stage monitor Loudspeaker having frequency range of 50Hz - 20kHz (-10dB), SPL Nominal - Max SPL 131dB SPL complete as required.	2	Nos	. 110000.00	Each	220000.00
5	Supplying, Installation, Testing and Commissioning of wall mount loudspeaker with dual 6" LF, single 1"HF driver, IP rated with Built-in LMT; Frequency Response (-10 dB) 65 Hz - 20 kHz complete as required	2	Pairs	70000.00	pair	140000.00
6	Supplying, Installation, Testing and Commissioning of wall mount Under balcony speaker with single 8" LF, 1"HF driver with Frequency Response (-10 dB) 70 Hz – 20 kHz and the Sensitivity of 93 dB or more complete as required.	2	Nos	80000.00	Each	160000.00
7	Supplying, Installation, Testing and Commissioning of Dual channel power amplifier for Main FOH Speaker complete as required.	1	No.	80000.00	Each	80000.00
8	Supplying, Installation, Testing and Commissioning of Class I/ClassTD/Class H Dual channel power amplifier complete as required.	3	Nos	160000.00	Each	480000.00
g	Supplying, Installation, Testing and Commissioning of Number of Channels system complete as required.	1	job	70000.00	job	70000.00
10	Supplying, Installation, Testing and Commissioning of Digital Signal Processor with 2 x XLR IN, electronically balanced audio input,6 x XLR OUT, complete as required.		No.	130000.00	Each	130000.00

S.No.	Description of Item	Qty.		Rate	Unit	Amount'
	Supplying, Installation, Testing and Commissioning of 22 channel Mixer with Digital Audio interface with 4 input channel & 4 output channels complete as required.	1	No.	290000.00	Each	290000.00
12	Supplying, Installation, Testing and Commissioning of Corded Vocal Microphone with Dynamic Neodymium Magnet microphone element complete as required.	3	Nos	10000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of Corded Instrument Microphone with Self Biased condensor microphone element complete as required.	3	Nos	10000.00	Each	30000.00
14	Supplying, Installation, Testing and Commissioning of Handheld Wireless Mic system that has a min of 14-hour battery life from two AA alkaline batteries complete as required.	3	Nos	50000.00	Each	150000.00
15	Supplying, Installation, Testing and Commissioning of Wireless Mic Lapel with condenser, frequency response 100Hz-15kHz complete as required.	2	Nos	50000.00	Each	100000.00
16	Supplying, Installation, Testing and Commissioning of Freestanding Gooseneck Mic with base complete as required.	2	Nos	40000.00	Each	80000.00
17	Supplying, Installation, Testing and Commissioning of DVD/CD player including connections etc. as required.	1	No.	7500.00	Each	7500.00
18	Supplying, Installation, Testing and Commissioning of customised rack for above equipments.	1	No.	50000.00	Each	50000.00
19	Providing necessary cabling, connector sets, brass groumets, testing etc. as required.	1	Job	200000.00	Job	200000.00
•	Total SH-I					6857500.00
	SUB-HEAD-II - STAGE LIGHTING, AUDITORIUM LIGHTING AND AUTOMATION.					
1	Wiring,switches & DBs.	LS	3	500000.00	LS	500000.00
2	50W LED LIGHT Light RGBAW color changing with DMX control beam angle 10 / 23 degree	12	Nos.	60000.00	Each	720000.00
3	280W LED RGB LIGHT DMX control with 10 degree beam angle	6	Nos.	180000.00	Each	1080000.00
4	50W RGB LED LIGHT DMX control	10	Nos.	60000.00	Each	600000.00
5	50W LED TUNNABLE white light with 10 degree / 21degree / 60 degree beam angle	13	Nos.	60000.00	Each	780000.00
6	36W LED panel light size 595 x 595 mm with 4000k	8	Nos.	5000.00	Each	40000.00
Ī	24W LED DIMMABLE LIGHT round recssed 4000k LED spot light	100	Nos.	4800.00	Each	480000.00 3

S.No.	Description of Item	Qty.		Rate	Unit	Amount
_ ^ _	6W LED SPOT LIGHT with 3000k : :	30	Nos.	1500.00	Each	45000.00
10	3W/M LED RAMP LIGHT with aluminium extrusion and					
	fibre optic strip to give uniform glow and blue in color	40	Mtrs.	1800.00	Mtr.	72000.00
		40	WILL S.	1000.00	1.0.	12000100
11	2W/M LED Step LIGHT with aluminium extrusion and					
	fibre optic strip to give uniform glow and blue in color					•
		38	Mtrs.	1900.00	Mtr.	72200.00
	Total SH-I					4389200.00
	Total Sn-I					4000200100
	ABSTRACT	OF COS	T	L	L	
	SUB-HEAD-I - AUDIO SYSTEM					6857500.00
	OUR LISTOR III OTA OF LIGHTING AUDITORIUM		<u> </u>		ļ	
	SUB-HEAD-II - STAGE LIGHTING, AUDITORIUM LIGHTING AND AUTOMATION.					4389200.00
	LIGHTING AND AUTOMATION.					4000200.00
					Total	11246700.00
	Add 3% conting	encies or	Rs.5.00 L	acs whichever is	s maximum	500000.00
					Prond Total	11746700.00
					Frand Total	11746700.0

Assistant Engineer (E)P Chandigarh Central Electrical Circle CPWD, Chandigarh. Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

GOVT. OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

ate: Haryana Branch: E&M Circle: CCEC

Division: KCED Karnal 7

Name of Work: Providing Audio System in Senate Hall at NIT Kurukshetra.

.

Head of Account: Deposit Work

This preliminary estimate has been framed by Er. Lakhbir Singh, Executive Engineer (Electrical), Karnal Central Elect. Division, CPWD, Karnal and processed in the office of Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs.90,01,020/- including contingencies.

REPORT

History:- This preliminary estimate amounting to Rs.90,01,020/- including contingencies has been framed to cover the cost of above cited work for obtaining Administrative Approval & Expenditure Sanction from the competent authority. The estimate has been prepared as per requisition received from DEAN (Estate), National Institute of Technology, Kurukshetra vide letter No.CC/58/1955 dated 11.04.2014.

<u>Design & Scope:</u> Following provisions have been kept in this estimate.

Audio System

- a) Delegate Units
- . b) Central Control Unit.
 - c) Extension power supply.
 - d) Cabinet Speakers.
 - e) Mixing Amplifier.
 - f) Handheld cordless mike.
 - g) Lapel cordless mike.
 - h) DCN cable
 - i) Software system for Camera
 - Software system for recording.
 - k) Feed back suppressor.
 - Audio mixer.
 - m) PTZ Camera
 - n) Key Board Compact with joystick
 - o) Allegiant matrix switcher
 - p) Customised rack, and necessary cabling etc.

Lighting and Automation.

Smart lighting system comprising of energy efficient fixtures with dimming option and lighting control system.

Method:

Through Contract

Rates:

Market Rate

Time:

6 Months

Gost:

Rs.90,01,020/- including contingencies

Assistant Engineer (E)P

Chandigarh Central Electrical Circle

CPWD, Chandigarh.

Superintending Engineer (E)
Chandigarh Central Electrical Circle

CPWD, Chandigarh.

	PRELIMINAR	YESTIMA	TE			
Na ac	 of Work: Providing Audio System in Senate Hall at NIT I	Kurukshe	tra.			
S.No.	Description of Item	Qty.		Rate	Unit	Amount
	SUB-HEAD-I - AUDIO SYSTEM					
1	Supplying, Installation, Testing and Commissioning of Delegate unit complete as required.	80	Nos	60000.00	Each	4800000.00
2	Supplying, Installation, Testing and Commissioning of Central control unit complete as required.	1	No.	310000.00	Each	310000.00
3	Supplying, Installation, Testing and Commissioning of Extension Power supply complete as required.	1	No.	160000.00	Each	160000.00
4	Supplying, Installation, Testing and Commissioning of Cabinet speaker complete as required.	10	Nos	9500.00	Each	95000.00
5	Supplying, Installation, Testing and Commissioning of mixing amplifier complete as required.	2	Nos	20000.00	Each	40000.00
6	Supplying, Installation, Testing and Commissioning of hand held cordless mike complete as required.	4	Nos	45000.00	Each	180000.00
7	Supplying, Installation, Testing and Commissioning of lapel cordless mike complete as required.	4	Nos	45000.00	Each	180000.00
8	Supplying, Installation, Testing and Commissioning of DCN cable complete as required.	1	Job	9000.00	Job	9000.00
9	Supplying, Installation, Testing and Commissioning of software system for Camera complete as required.	1	No.	150000.00	Each	150000.00
10	Supplying, Installation, Testing and Commissioning of software system for Recording complete as required.	1	No.	150000.00	Each	150000.00
11	Supplying, Installation, Testing and Commissioning of Feed Back Suppressor complete as required.		No.	50000.00	Each	50000.00
12	Supplying, Installation, Testing and Commissioning of Audio Mixer complete as required.		Nos	15000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of PTZ Camera 28X day night Indoor Camera complete as required.		No.	270000.00	Each	270000.00
14	Supplying, Installation, Testing and Commissioning of Key Board compact with joystick complete as required.		No.	90000.00	Each	90000.00
15	Supplying, Installation, Testing and Commissioning of Allegiant matrix switcher complete as required.		No.	110000.00	Each	110000.00
16	Supplying, Installation, Testing and Commissioning of customised rack for above equipments complete as required.		No.	25000.00	Each	25000.00

S.No.	Description of Item	Qty.		Rate	Unit	Amount
1,	Providing necessary cabling, connector sets, brass groumets, testing etc. as required.	1	Job	100000.00	Job	100000.00
	Total SHI					6749000.00
-	SUB-HEAD-II - LIGHTING AND AUTOMATION.					
1	Supplying, Installation, Testing and Commissioning of 300mm x 300 mm surface type (COLOUR TEMPERATURE 4000K)LED Luminaire with diecast aluminium construction having system lumen output of 1600 Lumens and efficacy better than 70 Lumen/watt having cct 4000K and CRI >70 & P.F better then 0.9.Make	30	Nos.	3300.00	Each	99000.00
2	Supply, Installation, testing and commissioning of Ceiling recessed "Tunable White" 32 watt LED luminaire (pre-assembled luminaire); having dynamic variation in colour temperature; symmetric wide-beam light distribution with maximum luminaire efficiency and optimumphotometric properties; 32 W;colour-temperature variation: 2700-6500K (warm white-neutral white-daylight white); luminous flux: >2000lm for32 W (2700-6500K);luminaire efficiency: up to 65lm/W; colour rendering: RA90;50,000h service life at 70% luminous flux; includes controllable ballast(Atco Tridonic/Philips), dimmable Dali only (separate unit included as a part of this item); control through DALI controller; high-quality reflector unit fixed to modular LED lighting chamber;high efficiency LED lighting chamber integrated in optimised, passive/Active thermal management system; harmonious transition between lighting chamber and reflector unit.					•
		60	Nos.	25000.00	Each	1500000.00
3	Supplying, Installation, Testing and Commissioning of DIN rail mountable, 1/3-Phase, 12 Channel Relay Controller with capability to control upto 12 Feed through Channels upto 20Amp Each.	2	Nos.	48000.00	Each	96000.00
4	SITC of DIN rail mountable, 1-Phase, 12 Channel Ballast Controller with capability to control 1-10VDC/DSI type of dimmable lighting loads.	2	Nos.	50000.00	Each	100000.00
5	Low-voltage, User interface keypad with 7 Buttons, Standard steel Finish.	1	No.	14000.00	Each	14000.00
6	Universal sensor for IR Receiver & motion control.	1	No.	14400.00	Each	14400 00
	Total SHII					1823400.00

S.No.	Description of Item	Qty.	Rate	Unit	Amount
	ABSTRAG	CT OF COST			
	SUB-HEAD-I - AUDIO SYSTEM		 		6749000.00
			 		1000 100 00
	SUB-HEAD-II - LIGHTING AND AUTOMATION.		 		1823400.00
			 	Tatal	8572400.00
			 	Total	8572400.00
			 Add 5% coi	ntingencies	428620.00
-					
			G	rand Total	9001020.00

Assistant Engineer (E)P Chandigarh Central Electrical Circle CPWD, Chandigarh.

Superintending Engineer (E)
Chandigarh Central Electrical Circle

CPWD, Chandigarh.







कार्यालय कार्यपालक अभियंता केन्द्रीय लोक निर्माण विभाग, एन.डी.आर.आई फैम्पस, नजदीक स्टैट बैंक आफ इंडिया, करनाल -132001

दूरभाष : 0184-2250690 फैक्स : 0184-2250660

Office of the Executive Engineer, Central Public Works Department, NDRI Campus, Near State Bank of India, Karnal-132001. Phone: 0184-2250690 Fax: 0184-2250660

E-mail: cpwdckarnal@gmail.com-

संख्याः- 20(NIT)/यो.शा./क.के.मं/2018/572

दिनांक...].8

सेवा में.

राष्ट्रीय प्रोद्योगिकी संस्थान, कुरूक्षेत्र -हरियाणा ।

पिन-136118

विषय :

Renovation of Senate Hall at NIT Kurukshet

संदर्भ :

आपका पत्र संख्या /CC/3527/17/132 दिनांक 07.01.2018

महोदय,

उपरोवत कार्य का प्रारम्भिक/विस्तृत प्रावकलन ज़िसकी लागत रूपये 58,37,400/- है है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाया गया है। अतः आपसे अनुरोध है कि कार्य की मंजुरी भेजते समय "लेखा शीर्ष" जिसके अतंर्गत व्यय किया जाना है, सूचित किया जाए तथा अनुमोदित प्राक्कलन की एक प्रति भी संलग्न करें।

भवदीय,

संलग्न :

उपरोक्त दो प्रतियों में:

(इंजी. चरणजीतं कार्यपालक अभियन्ता

करनाल केन्द्रीय मण्डल, के.लो.नि.वि, एन.डी.आर.आई कैम्पस, करनान।

प्रतिलिपि :-

ा. सहायक अभियंता, कुरूक्षेत्र केन्द्रीय उप-मण्डल, के.लो.लि.वि, कुरूक्षेत्र को उनके पत्र सं० २४(८)/स.ई.कु./२०१९/३३ दिनांक ०८.०२.२०१९ के संदर्भ में सूचनार्थ।

कार्यपालक अभियन्ता

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

Jinte: Haryana

NAME OF WORKS

Division: KCD Sub-Division: KCSD

Branch: B & R

Renovation of Senate Itali at NIT Kirrukshetro.

		
MAJOR HEAD	MINOR HEAD	DETAIL HEAD

To superformany estimate frames by Et. Abrick Gazy. Assistant Evipreset Wirekshahar Central Sub-Division and furtise processed by Ed. Most Arma, Assistant Engineer (C) Karnal Deniral Division, CPMB, Karnal for Rs. 68,37,4604, no contingencies

History;

TO DESCRIPTION OF THE PROPERTY This preliminary aslimate amounting to Rs. 68,37,4402-16 contingencies has been framed. To cover the probable cost of the above mentioned work for according AAA & E.S by the competent a Charily. The requisition for the phase cites work has been received from Erol, 90 (Finlate $m{a}$ Construction) whe their office refler No. 200/3527/171132 dates on 0 in 3019. Hence this oriental has been footed

Dywjgn & Scoper

The following provisions have been made in this estimate: -

- Providing and fixing false colling at all the ghill oblighing providing and loang of reams work. i 12, min thick tapered edge gyasum moisture resisiont bond for standing pages of the reol
- Providing and fixing of Woolen Carbet of Birth Transas a make of Cymaeth Maivet Chicke of Dynaucy, 1950 Cess (Sgrafor main half of the Jublan Half
- Providing and Imag Jupitor Auditoritin Chair > PCH-23hCH/2348 H approximent size decti-42 cm width 设 of roat Affect width 優 of front 41 cm, and bookings, assembly with back siza. nekijht -65 Schrib Wicchiriğ Top 34,5 am il Wrigth wa seat Tavet - 48 Jihm of Godhaj make.
- Providing and fixing Gyptech Wood perforated bands of validh 128 not, thickorys of 15 mm. and length of 2445min to well call poding (Sine & Part, walk at Ground ther and calcony of the auditors in:)
- Replacement of floor 8 wall tills of rollets any using replacement of Express
- Finish no with bit bound distemper & scrylic, allows on pair (lot exterior

CFWO Specification 2009 Vot 18.1 with rate date correction slies. Specification:

1 & P: Shall be arranged by the costractor

WC Establi Janyott Shall an improvil of contrapencies

Large Available with dient department.

Based on DSR = 24th A market is as Bate:

Method: Through contract after call of tender

Times: 04 Manifes Gerich racewaym AVA & E/SC

Costs House set 4 (04) to contingenous

Nate:-The cost and time of the project is rapie to records does to probable ascardion in cost of

constitution appellications as a sign as calange in scope, wight design and specifications excited so begined by the plant at a later date. The work quiet of this work to find sent upon the recognish the Code (brough authorization or through at oppoint well in time but are the fire bases seems

Assistati\Eñdineer(2) stima Certia Diastoni CHAD Kama.

Except vo Engilità Kurnat Cannal Division CAME Kamali

App<u>endiv-5b</u> (Reference-Para 3,6.3)

LETTER OF ACCEPTANCE OF DEFOSIT WORKS

(To be issued to the client deportment)

डील (एक्टेंट्र), राष्ट्रीय पोजाशिकी श्रेरकाल, कुठलेख हरिसामा। जिलाका १६५० स

dits liveration of Deposit works.

Repovation of Senate Hall at NIT Kurukshetrn.

The name work can be taken up by the CPWO as a Deposit work made than 1.8. If of CPWD Under, subject to the federal my

- 4. In all estimated cost of work as writted are the CPWD analoging department of the gas will have to be deposted by the chert department in fort the work is recently for exception. No interest will be paid by CPVC) to the offices department for such deposits.
 - The of all department shaplin hand lover remain possession of landskip to CPMFC CPMFC may, it so required takes responsiblely for lengolinion disposal of existing buildings standards.
- 3 CP 970 dates not at all itself to comparte the work within the estimated right. It additional fund are required, the same with two to be provided by the client department. Necessary revised up and a will be goes a test as a pt when required.
- A dry cospute a large cut of first operation of the contract (s) for the project work will be out jeen in a bit stier, as provided for in the contract agreement. CPWD will defend the projection proceeding, us bead to a city and get the arbitrator's award exacting, by the appropriate authority. The decision of the core potential thority in CPW D to accept the award or such that some in a Court of Law will be binding on the alient department.
- 3 Finals for making payment of all and any which may be decreed by a Count of them. For another by Award of an arbitrator in relative to the deposit work will be made against by the electridepartment around by interpret we of it not being a many refer to the Count, Taibarral or inflation. Such payments will be not per not be prepared to made to the southeout for execution of work.
- 6. A tent cacip, of ApA, & E/S fram the charge spartment, the CPV/D will program and solute various decaded architectural drawings and solution plans to be of bodies well-organized agreement to tent to be a free discount action with 10 so local bodies are independent again within med CPV/D has no exploit over the all Thes, alocal bodies there swell time for gramming the Plans. The time topic red to get and, approved is not not begin to a construction indicated in the extension with angle CPV/D soft make adjustes to get such expresses by a large to accessive for the obsert department that in process of the CPV/D soft make adjustes to get such expresses by a large to accessive for the obsert department.
 - The CPWO has no bonds of its own for reventing in the work. The chain should, therefore, curring first adequate foods are accordable with CPWO to executing the work. In case the effect deposition that is, it provide foods as pur requirements in a try to exceeding for expectable floor that work the chain the entering should be solely responsible for all the consequences arising that of their adopting about a formal transfer in the day and arising that of their adopting about a formal transfer in some point in the consequences.
- 9 The check of parametrized adaptic 2000 in the previous gitts for rational in the on the estimates is infatte from the officest. Of providing the transfer organization is examined and of our office area of which on some offices of control of which on some of cardiological charges, and it; summaring relies you filed over the control of control of providing the substantianty.
- 6 CPW-1 has at its discretion allow the dients to deposit the funds in a stationarily in your case 53 1736 would be not need to acposit a leganst tile has pathern of the estimated expend to a
- 16 Access where books are deposited in operationarity COMO will not be respect to the former energy characters for comparison of the Access of the Amperical Conference

sion and copies and to be one of an appropriate of the above to small. The soft is a to prove of the flow

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v Dy C. 8000 Cambridge
LACO V -18000 (ap.)

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ı	l	coment 1.4 Charse solid), jouls treated with white compati-		!	
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1	l	rubbog, during, monthly and polisting to edges to give high			
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	size 300x202 mm or main thickness to be specified by the!			
- 1	menufactorer), of full quality scoto ming it (5 : 1592), of	1		- 1
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į	pigments atcl, complete.	:1	اعد معا	21084.00
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4.2	1.5 Oramie slabo 18 ami Prick och sers of stepal skirting, dedo		!	!
. 1	and juliars tails on 10 mm (average) thick coment moder 1/3		I	İ
	p1 coment is opersel send; and jointed with grey cement	i		
	study music with pigment to marchitic shalle of Posiston."			- 1
1	including rubbing and polishing pomplete.			.
L		60 Jagori	3201.72	256136.00
0.0	12 RODEING			
5.1 0	2.45 Providing and tourns take noting at all height including	 -		
1 1	providing and liking of frame work made of special sections.	! :		- 1
1 1	power pressed from M.S. shorts and gulvanized with paid			1
'	coating of 120 gms/sgm (both side inclusive) as per IS - 277			
	end consisting of angle deats of size 25 mm wide x 1.5 mm.		:	
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1 1	of clost fixed to the langle hangers of 25¢10x0.50 min or	1 1		- 1
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1	a contilion perpensional to Grainformediate chain a livit I			
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1 1	channols 0.5 min laick 27 mm high having "ungez of 20 min			
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6.1	(4) Urstempering with all believ washable distamper of		- 1	İ
1 :	approved brand and manufacture to give an even shade	.	!	
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3 1 1 7 3	the state of the s		1	1
<u> </u>	Uniqueale promograpel with cement primer	<u> </u>	90.70	30/82 50
72 1	3.8 Providing aikt upplying white deman; based pully of avoinge		- 1	!
1	Illicknoss if you of approved armodial dimanofacturer, over		i	
	the classered wall surface to propose the surface even and			
	smboth complete.	CF3 <u>scor</u>	37 M	23,270,40
6 B (1)	tell persons with pressure recycle animation point of mellor.			
	justini having VCrC (Motatre Organia Camparate) content	:		
I	essi man 30 guarresi 10e bil atproved Librar and	Ι.		
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	regulation achieve above shocks and colour	:	1	
0 (1) 13	53 a Two on ds		71.70	19237 00.
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	· .					
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	230	sqin	36.95	8499.00
	14 14.46	REPAIRS TO BUILDINGS Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches				
7.2	14.54	etc. complete. Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:	263	sqm	10.80	2840.00
7.2.1	14.54.1 14.58	One or more coats on old work French spirit polishing :	287	sqm	51.30	14723.00
7.3.1	14.58.1	One or more coats on old work DISMANTLING & DEMOLISHING	28	sqm	105.85	2964.00
8.1	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:				/
8.1.1	15.12.1	Of area 3 sq. metres and below	2	each	157.85	316.00
8.1.2		Of area beyond 3 sq. metres	1	each	216.40	216.00
8.2	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
8.2.1	15.23.1	For thickness of tiles 10 mm to 25 mm	26	şqm	31.55	820.00
8.3	15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead:				
8.3.1	15.39.2	Thickness above 10 mm up to 25 mm	40	sqm	33.15	1326.00
8.4	15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	315	sqm	24.30	7655.00
8.5	15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.		each	391.20	1956.00
8.6	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.		sqm	22.40	1792.00
9	17	SANITARY INSTALLATIONS				
9.1	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:				
9.1.1	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	4	each	4593.75	18375.00

10.1 (8.2) Providing and frong usual rised PSC connection pipe with least uniting usual rised PSC connection pipe with least uniting a 45 cm length (0.1) 1911.7 15 into nominal bord (0.1) 1911.7 15 into nominal bord (0.2) 10.49 Providing and fising CIP bread for book 0' approved usually conforming to IS Jets).	
10-1 18 2 12 45 mm length	7 50) 84 800
10.3 18.63 Providing build filting C.P. crisss angle valve for basis in skin and geyser could be approved quality conforming to IS.380 I	
11 21 AUG/N. M. WOURK 12 21 AUG/N. M. WOURK 13 21 AUG/N. M. WOURK 14 21 Proyer agrant fixing aluminium work for doors, windows we distance and partitions with extended dust or stonage libertal cost and sections with extended dust or stonage path Josh features of reproduct as 1285, foing only Josh features of reclaiming and set including accessory filling up the gaps at product in earlier, sollow and selections shall be smooth, just fire, straight, million and selections shall be smooth, just fire, straight, million and or just and shall with required CPDM grown in the fire, straight, million and just and only wherever returned including the partition, CP mass (is failuless steel screws, all condition to pay cretitational cruckings and the threatons of Engineer in charge (Gazing, paycling and cash fusteriors to be paid for respectively).	0097.00
13 * U 3 1 1 1 For fised permit 11 1 7 * 12 2 People reported in continuous (minimum in linekhous) U powder	1///97 (O
10.2 77.12 Providing 2.2 days thick transcess couplings 6 glass door condens of applicated and mismissipped including providing months by tap A isolated part of spring type transcent and misking necessary collections from equipment and misking necessary collections from equipment and collections, all compile has per direction of Engineering type topic from the expension of Engineering type topic from the expension of each sequence by:	

 - - - - - -	(N.S.R Hein Providing and frong 1st quality while vicetus office independent and shape wash bosin of Jaquan (Call No CNS-VAIT WRIG) or similar sorres of equivalent in ave of size 135 x 100 x 485 valin O.L. brackets (a mining of liftings and O.P. brack pillar cook having auto closing system of Jaquan (Call No PRS-001) or equivalent make, 20mm waste coupling of Jaquan Cat. No. ALD 709 or equivalent make and O.P. brack brille trap (Size 200 x 19Form) of Januar Cat. No. ALD 7600 or equivalent make including brilling and moving good fine waits valeness impliced as per the (freedom of arc Engineer) on Chargo.		
17.0 NER	Providing and fixing health laboral with 160cm tong new 5.6 PVCT the A wall hook of cagoor tasks (No ACE 1570 CA, or significances of inquivalent make complete in all maneols, as por directions at singulate -in-Charge.	13 Ench 9155.55 100	<u>ase no</u>
12.5 288	Provious and fixing Sesp Dispensor or Jedour (Category No. 1704A) or equivalent make fixed with paper sety services les per direction of Engineer-in Charge.	a	222.50
1,74 ESE	Previous and fixing 100 mm districtor Staintest unset (125 community grade 304) grading (Jati who usefue) for gray 4504 or National Iraq of the make as apprecial by Engineer in charge.		<u>1590</u> 000 7
13.5 NSR	Provising and fixing amonth-ok finated safety globs unital partition of size 900mm x 450mm of Jaquar make (Model No. 1810-08) or similar social of equivalent make complete as produce-today of engineer-in charge.	9 Fath (30.05)	2-0 00
13.6 NSR	Providing and liking of Worldy Carpet at 8 to Transasia or No. at Trynosity Matvet Delocal of Dynasity 1250 Gersufferta rectuding cooking of experience poty in here form (EPD) gluet adhesive to the at site coincide as per direction of Carping-receiving		270 00
্টেলেটি MBR 	Providing and heary Jupilor Architect Class IPC I [2342] (2 id/let approximately see Ceech 42 cm width ignor- rect 44 and, width @ of front 41 and stock restlesse only with back neel reight ICS born S. Witch ig. 169 (34.5 uni 27duh @ post level - 45 upm a) Gratigi maks	124 Each 146 (3.50) 1950	

ASE.	Providing and fixing Gystech Wood perforated panels of			
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	lwight 175mm, trickness of 16mm and length of 24x2mm or last educed by the Architeckepproving engineer much of a			I
			- 1	I
	Modular density fibre soard substrate with randoted facing			.
'	'as per II.4 approved sharts) species and finish and a			l 1
1	molaration between tween over the reverse side. The heard			: 1
	anall have a special perforated pattern where the wable			.
	is inface has a ("Helpfoliz" fules perforation of Zmm (with)			: 1
	and 14mm of VSBIs panelymm width and 28mm VSBis			i I
:	panel) each			i l
	Install whosen batter (/G) section 50v50(pr. or as approved			i l
!	jby the Architection the solid wall horizontally stung scrows			: !
	and plays on spacing on 600mm perilieda-control Screw by			! I
	alterimum extrudes keel provides by Systectic user the		1	! '
1 1	idwest second wooden batter, at an incremie distance of			: !
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. :	the funds of attended dip. Continue installing house of	۱ ۱		·
l i	ilipanois by insetting the tangua with the groove of earter			!
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i	alto the next keef of the actual beignt is achieved. Use tups			l :
'	to the Forder No Coists of the Installation. Finish of the		1	:
, !	edges using wooden moulding of matching colour (provides			1 1
i ·	by ciners).			
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12.9 , 113.6	Providing and fixing Chemical Bort to fix the phase in existing			1
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भारत सरकार GOVERNMENT OF INDIA केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT



कार्यालय अधीक्षण अभियन्ता, चण्डीगढ़ केर्न्द्राय परिमंडल, के.लो.नि.वि., केन्द्रीय सदन, सैक्टर-9ए, चण्डीगढ़। दूरभाष सं.- 0172-2470924, 2743923

ई-मेल:- seccc_cpwd2002@yahoo.co.in



O/o The Superintending Engineer, Chandigarh Central Circle, CPWD, Kendriya Sadan, Sector 9-A, Chandigarh. Tele. No:- 0172-2740924, 2743923 E-mail:- seccc_cpwd2002@yahoo.co.in

संख्याः च.के.परि./23(4515)W-III/2018-19/39।

दिनांक: 20/2/2019

सेवा में.

The professor I/C (Estate & Construction),

National Institute of Technologhy,

Kurukshetra.

विषय:

Renovation of Jubilee Hall at NIT, Kurukshetra.

उपरोक्त कार्य का **Rs.1,45,12,000**/- रूपये रिक्सि को प्रारम्भिके अनुमान दो प्रतियों में संलग्न किया जाता है। इस कार्य के अनुमान हेतु आपका आवेदन पत्र संख्या CC/3527/17/132 दिनांक 07.01.2019 द्वारा भेजा गया था। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हैड ऑफ एकांउट) का भी उल्लेख करने की कृपा करें।

संलग्नः अनुमान (दो प्रतियां)

भवदीय कार्यपालक अभियन्ता (यो.) चण्डीगढ़ केन्द्रीय परिमण्डल के.लो.नि.वि.ए चण्डीगढ़।

प्रतिलिपि:-

- 1. मुख्य अभियंता (उ.अं.-1), के.लो.नि.वि., चण्डीगढ को सूचनार्थ प्रेषित है।
- 2. अधीक्षण अभियंता (वैद्युत), चण्डीगढ़ केन्द्रीय वैद्युत परिमण्डल, के.लो.नि.वि., केन्द्रीय सदन, सैक्टर-9 ए, चण्डीगढ़ को सूचनार्थ प्रेषित है।
- 3. कार्यपालक अभियंता, करनाल केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को अनुमान की प्रति सिंहत।
- 4. कार्यपालक अभियंता (वैद्युत), केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को सूचनार्थ प्रेषित है।

कार्यपालक अभियन्ता (यो.)

GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

Stat Haryana Branch: B & R

Division: KCD

Circle: Chandigarh Central Circle

NAME OF WORK: Renovation of Jubilee Hall at NIT, Kurukshetra.

MAJOR HEAD MINOR HEAD DETAIL HEAD

This proliminary estimate framed by Fr. C.S.Pasrija, Executive Engineer, Karnal Central Division and further processed by Fr. J.K. Goel, Executive Engineer (P), Chandigath Central Circle, CPWD, Chandigath for Rs.1,45,12,000/- i/a contingencies.

History;

This preliminary estimate amounting to **Rs.1,45,12,000**/- i/o 3% contingencies has been framed to cover the probable cost of the above mentioned work for accord of A/A & E/S by the competent authority. The requisition for the above cited work has been received from **Prof.** J/C (Estate & Construction) vide their office latter No. CC/3527/17/132 dated 07.01.2019. (copy enclosed) Hence this estimate has been framed for obtaining administrative approval & expenditure sanction by the competent authority of client department.

Besign & Scope: The following provisions have been made in this estimate: -

- 38 mm thick wood block flooring of first class teak wood for stage portion of the auditorium.
- Providing and fixing faise coiling or all height including providing and fixing of frame work
 - 13.5 mm thick topered edge gypsum moisture resistant board for slanting portion of the roof.
 - ii) Pully Perforated Gypsum Plaster Board of size 1200 x 3400x12.5 mm having approx. 15 % perforated area with NRC value not less than 0.60.
- 3 Providing and fixing of Woolen Carpet of Birla Trans Asia make of Dynasty Velvet Deluxe of density 1256 Gass/Squi for main Jubilee hall.
- Providing and fixing Jupiter Auditorium Chair Godfej make PCH-2342H/3342IP approx, seat size depth 42 cm, rear width - 44 cm, front width 41 cm - and back rest assembly with back size height - 65.5 cm, 54.5 cm Width, 46.0 cm width at seat level
- Providing and fixing of GYPTECH Pabric Phonetic Acoustical wall paneling with square edges made of fiber glass substrate 25mm thick for vertical portion (Side and back walls at ground floor and backeny of the auditorium)
- Providing and fixing Gyptech Wood perforated panels of width 128mm, dickness of 15mm and length of 2440mm for vertical portion (Side and back walls of ground floor and baleony of the auditorium).
- 7 Granite work in entrance lobby and steps of the stair case.
- Provision of 20 mm thick FRP (high door shutters with FRP door frame 90x45mm).
- 9. Provision of stain less steel railing in haldony.
- Provision of vitritied tiles in green room and back gallery.
- 11 Replacement of Floor and Wall files of todats including replacement of fixtures.
- 12. Faushing with oil bound distemper and service emulsion point of interior
- 13 All allied mise items related to work

Specification: CPWD Specification 2009 Vol. I & II with upto date correction slips.

T & P: No T & P is required if required Shall be arranged by the contractor.

WC Establishment: Shall be met out of 3% contingencies.

Land: Available with client department.

Rate: Based on DSR – 2016 rates & cost index @ 106 is applicable.

Method: Through contract after receipt of A/A & E/S.

Time: 04 Months (After receipt of A/A & E/S)

i) Preconstruction activity One Month

ii) Construction Activity Three Months

TOTAL <u>Four Months</u>

<u>Cost:</u> Rs.1,45,12,000/-i/c 3% contingencies.

<u>Note:-</u> The cost and time of the project is liable to revision due to probable escalation in cost

of construction apart from reasons such as change in scope, area, design and specifications etc., if so desired by the client at a later date. The execution of the work will depend upon the receipt of the funds through authorization or through allocation

well in time during the financial years.

Assistant Engineer (P)-III, Chandigarh Central Circle,

Grains

CPWD, Chandigarh.

Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh.

	Original I	Estima	ite			·
	e of work:- Renovation of Jubilee Hall at N			1.		
Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
1	MARBLE AND GRANITE WORK					8
1.1	Providing and fixing 18 mm thick gang saw cut, mirror					
ĺ	polished, premoulded and prepolished, machine cut					
	for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved					
	shade, colour and texture laid over 20 mm thick base				l	
	cement mortar 1:4 (1 cement : 4 coarse sand), joints					
	treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing,					
	moulding and polishing to edges to give high gloss				ì	
	finish etc. complete at all levels.					
1.1.1	Granite of any colour and shade					8.2 8.2.2
	Area of slab over 0.50 sqm	5	sqm	3113.30	15567.00	8.2.2.2
1.2	Extra for providing opening of required size & shape		Sqiii	3113.30	15507.00	0.2.2.2
	for wash basin/ kitchen sink in kitchen platform, vanity					
	counter and similar location in marble/ Granite/ stone					
	work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut					
	edges etc. complete.	8	each	427.95	3424.00	8.5
1.3	Providing and laying Polished Granite stone flooring in					
	required design and patterns, in linear as well as curvilinear portions of the building, all complete as per			·		
	the architectural drawings, with 18 mm thick stone					
	slab over 20 mm (average) thick base of cement					
	mortar 1:4 (1 cement : 4 coarse sand), laid and					
	jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching]	
	shade, including rubbing, curing and polishing etc. all					
	complete as specified and as directed by the Engineer		,		İ	
	in-Charge.					8.13
1.3.1	Polished Granite stone slab jet Black, Cherry Red,					
	Elite Brown, Cat Eye or equivalent.	135	sqm	2937.70	396590.00	8.13.1
2	WOOD AND P.V.C. WORK					9
2.1	Providing and fixing ISI marked flush door shutters					
	conforming to IS: 2202 (Part I) non-decorative type,					
	core of block board construction with frame of 1st					
	class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face					
	veneers on both faces of shutters:					
2 1 4	25 mm thick including ISI morted Stainless Start butt					9.21
2.1.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	3	sqm	1559.75	4679.00	9.21.1
2.2	Providing and fixing aluminium sliding door bolts, ISI		74			
	marked anodised (anodic coating not less than grade					
	AC 10 as per IS: 1868), transparent or dyed to required colour or shade, with nuts and screws etc.					
	complete:					9.96
2.2.1	250x16 mm	1	each	189.20	189.00	9.96.2
2.3	Providing and fixing aluminium tower bolts, ISI					
	marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to					
	required colour or shade, with necessary screws etc.					
0.6	complete :					9.97
2.3.1	250x10 mm	22	each	88.10	1938.00	9.97.2

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No	Description	Qty.	Unit	Rate	Amount	DSR No.
2.4	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.				,	
		10	each	66.55	666.00	9.98
2.5	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:					9.1
2.5.1	125 mm	22	each	51.10	1124.00	9.100.1
2.6	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles of approved quality with necessary screws etc.					
0.7	complete.	8	each	622.15	4977.00	9.103
2.7	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the		·			
	frame.	49	metre	415.50	20360.00	9.121
2.8	Providing and fixing to existing door frames.					9.122
2.8.1	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.					
		15	sqm	2535.80	38037.00	9.122.2
3	STEEL WORK					10
3.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					10.5
3.1.1	Using flats 30x6mm for diagonal braces and central	0	0.000	0764.00	EE04.00	10.5.2
3.2	cross piece Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	2	sqm	2761.90	5524.00	10.5.2
3.2.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	36	kg	74.05	2666.00	10.13.1

<u> </u>				T		I
Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
3.3	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).		kg	472.40	51964.00	10.28
	FLOORING					44
4.1	FLOORING 38 mm thick wood block flooring of first class teak					11
	wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.		sqm	7266.95	726695.00	11.34
4.2	Providing and laying rectified Glazed Ceramic floor					
	tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	86	sqm	822.45	70731.00	11.39
4.3	Providing and laying Vitrified tiles in different sizes	- 00	34111	022.40	70731.00	11.00
	(thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					11.47
4.3.1	Size of Tile 600x600 mm	6	sam	1240.60	7444.00	11.47 11.47.2
4.4	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	0	sqm	1240.00	7-44-00	11.47.2
4.4.1	Size of Tile 600x600 mm	75	sqm	1169.55	87716.00	11.49.2
	 		<u> </u>	·		

Sr.						
No	Description	Qty.	Unit	Rate	Amount	DSR No.
4.5	Grainte slabs 18 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	259	Sqm	3201.70	829240.00	NS/DSR
5	POOFING				 	12
5.1	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having					12
	flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:					12.45
5.1.1	12.5 mm thick tapered edge gypsum moisture					
5.1.2	resistant board Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer- in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	260	sqm	958.65 1135.50	293347.00 295230.00	12.45.4

Sř.	Description	Qty.	Unit	Rate	Amount	DSR No.
No		Gty.		Nate	Amount	
6.1	FINISHING				ļ	13
0.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even					,
	shade:			,		13.41
6.1.1	New work (two or more coats) over and including					
	water thinnable priming coat with cement primer	180	sqm	93.70	16866.00	13.41.1
6.2	Painting with synthetic enamel paint of approved					13.61
6.2.1	brand and manufacture to give an even shade : Two or more coats on new work	11	sam	78.40	862.00	13.61.1
6.3	Providing and applying white cement based putty of		sqm	70.40	802.00	13.01.1
0.0	average thickness 1 mm, of approved brand and					
	manufacturer, over the plastered wall surface to					
	prepare the surface even and smooth complete.					
		960	sqm	87.35	83856.00	13.8
6.4	Wall painting with premium acrylic emulsion paint of					
	interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of					
	approved brand and manufacture, including applying					
	additional coats wherever required to achieve even				1	
	shade and colour.					13.83
6.4.1	Two coats	780	Sqm	71.00	55380.00	13.83.2
6.5	Applying priming coats with primer of approved brand					
	and manufacture, having low VOC (Volatile Organic					40.05
0.5.4	Compound) content.					13.85
6.5.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre		,			
	maving voc content less than 50 grams/life	780	sqm	36.95	28821.00	13.85.3
7	REPAIRS TO BUILDINGS					14
7.1	Removing dry or oil bound distemper, water proofing					
	cement paint and the like by scrapping, sand papering					
	and preparing the surface smooth including					
	necessary repairs to scratches etc. complete.	000	0.000	40.00	10269.00	14.46
7.2	Painting with synthetic enamel paint of approved	960	sqm	10.80	10368.00	14.46
1.2	brand and manufacture of required colour to give an				ļ	
	even shade :					14.54
7.2.1	One or more coats on old work	271	sqm	51.30	13902.00	14.54.1
, ,						
8	DISMANTLING & DEMOLISHING					15
8.1	Dismantling doors, windows and clerestory windows					
	(steel or wood) shutter including chowkhats,					ļ.
	architrave, holdfasts etc. complete and stacking within					45.40
0.4.4	50 metres lead :			157.05	0.170.00	15.12
8.1.1	Of area 3 sq. metres and below	22	each	157.85	3473.00	15.12.1
8.2	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates,					
	bolts, nuts, cutting rivets, welding etc. including					
	dismembering and stacking within 50 metres lead.					
		132	kg	2.40	317.00	15.18
8.3	Dismantling tile work in floors and roofs laid in cement					
	mortar including stacking material within 50 metres					
0.0	lead.					15.23
8.3.1	For thickness of tiles 10 mm to 25 mm	86	sqm	31.55	2713.00	15.23.1
8.4	Dismantling wooden boardings in lining of walls and					
	partitions, excluding supporting members but including stacking within 50 metres lead:					15.39
8.4.1	Thickness above 10 mm up to 25 mm	345	sqm	33.15	11437.00	15.39.2

Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
8.5	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of				1,	
	serviceable materials and disposal of unserviceable materials within 50 metres lead.	566	sqm	24.30	13754.00	15.41
8.6	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable					
	materials within 50 metres lead.	12	each	391.20	4694.00	15.52
8.7	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.		sqm	22.40	4816.00	15.56
9	SANITARY INSTALLATIONS				<u> </u>	17
9.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					17.1
9.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	4	each	3494.20	13977.00	17.1.1
9.2	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:					17.3
9.2.1	W.C. pan with ISI marked white solid plastic seat and					
0.0	lid	6	each	4593.75	27563.00	17.3.1
9.3	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required:					17.5
9.3.1	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	2	each	11694.90	23390.00	17.5.3
10	WATER SUPPLY					18
10.1	Providing and fixing uplasticised PVC connection pipe					
	with brass unions :					18.21
	45 cm length					18.21.2
10.1.1. 10.2	15 mm nominal bore Providing and fixing C.P. brass shower rose with 15 or	34	each	67.80	2305.00	18.21.2.1
	20 mm inlet :					18.22
	100 mm diameter	2	each	71.65	143.00	18.22.1
10.3	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	10	each	371.70	3717.00	18.49 18.49.1
- ''		.10	cacii	3/1./0	3/17.00	10.43.1

Description	Qty.	Unit	Rate	Amount	DSR No.
Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				15.	18.51
	4	each	492.55	1970.00	18.51.1
Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality					40.50
		ļ	175.70	10171.00	18.53
	34	each	475.70	16174.00	18.53.1 NS/MR
under counter oval shape wash basin of Jaquar (Cat No CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets i/c painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. PRS-031) or equivalent make, 32mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 769L or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge.					Rate taken in detailed estimate of 1. Tax KKR T/S by SE/CCC vide No. 23(4473)/27 04 dated. 16.10.2017
	88	Each	8156.85	65255.00	
Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD- 573 GA) or similar series of equivalent make complete in 'all respects as per directions of Engineer-in-Charge.					NS/MR Rate taken in detailed estimate of I. Tax KKR T/S by SE/CCC vide No. 23(4473)/27 04 dated.
	6	Each	2055.40	12332.00	16.10.2017.
Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge.	8	Each	1640.05	13120.00	NS/MR Rate taken in detailed estimate of I. Tax KKR T/S by SE/CCC vide No. 23(4473)/27 04 dated. 16.10.2017.
Providing and fixing 8mm thick frosted safety glass urinal partition of size 900mm x 450mm of Jaquar make (Model No 1810-US) or similar series of equivalent make complete as per directions of Engineer-in-charge.	4	Each	6736.70	26947.00	NS/MR Rate taken in detailed estimate of I. Tax KKR T/S by SE/CCC vide No. 23(4473)/27 04 dated. 16.10.2017
	approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore Providing and fixing 1st quality white vitreous china under counter oval shape wash basin of Jaquar (Cat No CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets i/o painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. PRS-031) or equivalent make, 32mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 769L or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge. Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD- 573 GA) or similar series of equivalent make complete in all respects as per directions of Engineer-in-Charge. Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge. Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge.	approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore Providing and fixing 1st quality white vitreous china under counter oval shape wash basin of Jaquar (Cat No CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets i/c painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. PRS-031) or equivalent make, 32mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 769L or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge. Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD- 573 GA) or similar series of equivalent make complete in all respects as per directions of Engineer-in-Charge. 6 Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge. 8 Providing and fixing Soap Dispensor of Jaquar make (Model No 1810-US) or similar series of equivalent make (Model No 1810-US) or similar series of equivalent make (Model No 1810-US) or similar series of equivalent make complete as per directions of	approved quality conforming to TS standards and weighing not less than 690 gms. 15 mm nominal bore Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore Providing and fixing 1st quality white vitreous chinal under counter oval shape wash basin of Jaquar (Cat No CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets I/c painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. PRS-031) or equivalent make, 32mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 769L or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge. Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD- 573 GA) or similar series of equivalent make complete in all respects as per directions of Engineer-in-Charge. Providing and fixing Soap Dispensor of Jaquar Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge. Providing and fixing 8mm thick frosted safety glass urinal partition of size 900mm x 450mm of Jaquar make (Model No 1810-US) or similar series of equivalent make complete as per directions of Engineer-in-charge.	inapproved quality conforming to TS standards and weighing not less than 690 gms. 15 mm nominal bore Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS-8931 15 mm nominal bore 34 each 475.70 Providing and fixing 1st quality white vitreous chinal under counter oval shape wash basin of Jaquar (Cat No CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets the painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. PRS-031) or equivalent make, 32mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 769L or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge. 8 Each 8156.85 Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD-573 GA) or similar series of equivalent make complete in all respects as per directions of Engineer-in-Charge. Providing and fixing Soap Dispensor of Jaquar make (No.ALD-573 GA) or equivalent make fixed with necessary screws as per direction of Engineer-in-Charge. 8 Each 1640.05 Providing and fixing 8mm thick frosted safety glass urinal partition of size 900mm x 450mm of Jaquar make (Model No 1810-US) or similar series of equivalent make complete as per directions of Engineer-in-charge.	approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore 34 each 492.55 1970.00 15 mm nominal bore 34 each 475.70 16174.00 Providing and fixing 1st quality white vitreous china under counter oval shape wash basin of Jaquar (Cat No. CNS-WHT-WB03) or similar series of equivalent make of size 195 x 600 x 425 with C.I. brackets I/c painting of fittings and C.P. brass pillar cock having auto closing system of Jaquar (Cat. No. LD 709 or equivalent make and CP brass bottle trap (Size 300 x 190mm) of Jaquar Cat. No. ALD 709 or equivalent make including cutting and making good the walls wherever required as per the direction of the Engineer-in-Charge. Providing and fixing health faucet with 100cm long flexible PVC tube & wall hook of Jaquar make (No.ALD- 573 GA) or similar series of equivalent make complete in all respects as per directions of Engineer-in-Charge. Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivelent make fixed with necessary screws as per direction of Engineer-in-Charge. 8 Each 1640.05 13120.00 Providing and fixing 8mm thick frosted safety glass virial partition of size 900mm x 450mm of Jaquar make (Model No 1810-US) or similar series of equivalent make complete as per directions of Engineer-in-charge.

Sr.	Description	Qty.	Unit	Rate	Amount	DSR No.
1	Providing and fixing 100 mm diameter Stainless steel (of minimum grade 304) grating (Jali with frame) for gully, floor or Nahani trap of the make as approved by Engineer -in-charge.				•	NS/MR Rate taken in detailed estimate of I. Tax KKR T/S by SE/CCC vide No. 23(4473)/27 04 dated.
		14	each	29.10	407.00	16.10.2017
11	ALUMINIUM WORK					21
11.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately):					21.1
11.1.1	For fixed portion		-			21.1.1
11.1.1.	Powder coated aluminium (minimum thickness of powder coating 50 micron)	90	kg	384.50	34605.00	21.1.1.2
11.2	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.					21.12
11.2.1	Powder coated minimum thickness 50 micron aluminium tubular handle bar	16	each	509.30	8149.00	21.12.2
11.3	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	16	sqm	4608.85	73742.00	21.18
11.4	Providing and fixing of Woolen Carpet of Birla Transasia make of Dynasty Velvet Deluxe of Density 1250 Gms./Sqm including backing of expanded polyurithene foam (EPD) glue/ adhesive to fix at site complete as per direction of Engineer-in-charge.					
		390	Sqm	2200.23	858090.00	MR

Sr.	Description	Qty.	Unit	Rate	Amount	DSR No.
No	<u> </u>	Qty.	Unit	Rate	Amount	DSK NO.
11.5	Providing and fixing Jupiter Auditorium Chair - PCH-2342H/2342IP approx. seat size depth 42 cm width @ of rear 44 cm, width @ of front 41 cm and back rest assembly with back size height -65.5cm & Width @ top 34.5 cm, Width @ seat level - 46.0cm of Godrej				, i, .	
	make.	390	Each	14673.00	5722470.00	MR
11.6	Providing and fixing of GYPTECH Fabric Phonetic Acoustical wall paneling with square edges made of fiber glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colours as per the choice of the Architect/Engineering-in-charge of size 2400x600, 1800x600x 600x1200 or 600x600mm providing a minimum sound absorption level of 0.90 NRC to be affixed to wall using wall panel hooks and construction adhesives supplied by Gyptech Systems Pvt. Ltd. as per the instructions laid down by the manufacturer. Wall panel hooks of adequate quantity as specified by the manufacturer shall be fixed to the wall surface using self tapping screws. Silica based construction adhesive shall be dabbed on to the projecting elements (spikes) of the hooks. Gyptech Fabric wall panels shall be pierced through the spikes of the hooks ensuring the line and level of the panels					
	are maintained.					
		160	Sqm	4593.00	734880.00	MR
	Providing and fixing Gyptech Wood perforated panels of width 128mm, thickness of 15mm and length of 2440mm or as required by the Architect/approving engineer, made of a Medium density fibre board substrate with laminated facing as per the approved shade/ species and finish and a melamine balancing layer over the reverse side. The board shall have a special perforated pattern where the visible surface has a ("Helmholtz" fluted perforation of 2mm width and 14mm of visible panel/4mm width and 28mm visible panel) each. Install wooden battens/GI section 50x50mm or as approved by the Architect on the solid wall horizontally suing screws and plugs on spacing on 600mm centre-to-centre. Screw the aluminium extruded keel provided by Gyptech over the lowest second wooden batten at an on centre distance of 600mm. install the first set of wooden panels by inserting the clip for border and insert the groove of panel into projecting the flange of aluminium clip. Continue installing rows of panels by inserting the tongue into the groove of earlier inserted panel and progressively installing clips for inside into the next keel till the actual height is achieved. Use clips for the border to finish off the installation. Finish off the edges using wooden moulding of matching colour (provided by others).	185	Sqm	5650.00	1045250.00	MR
11.8	Providing and fixing Chemical Bolt to fix the chair in	185	Sqm	5650.00	1045250.00	MR
	existing floor as per requirement of location and sizes.	780	Each	1738.70	1356186.00	MR

Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
11.9	Providing and fixing 12 mm thick frameless toughened glass of approved brand and manufacture, including fixing arrangement and making necessary holes etc. for fixing required fittings, all complete as per direction of Engineer-in-charge.					
	per unreaden or Engineer in enanger	12	Sqm	2652.25	31827.00	NS/DSR
	Total				13181866.00	
	Add Cost Index @3.92% except item No. 10.6, 10.7, 10.8, 10.9, 10.10, 11.4, 11.5, 11.6, 11.7 & 11.8 i.e. Rs. 13181866-9834937=3346929/-				131200.00	
	Total			'A'	13313066.00	
	Add Contingencies @3% on 'A' (minimum 5 lacs)				500000.00	
	Add Labour Cess @1% on 'A'				133131.00	
	Add EPF & ESCI @4.25%				565805.00	
	Total				14512002.00	
	Say Rs.	1,45,12	,000/-			

Assistant Engineer (P)-III
Chandigarh Central Circle,
CPWD, Chandigarh.

Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh.

Preliminary estimate amounting to Rs.1,45,12,000/- (Rupees One crore forty five lac twelve thousand only) is hereby submitted to client department for accord of A/A & E/S from competent authority.

Superintending Engineer, Chandigarh Central Circle, CPWD, Chandigarh.

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NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No/00/3527/17 / 133.

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Dated. #7 01.2019

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The Executive Engineer (Civil) CPMD, Karnal Central Division NDRI Campus (Near State bank of India) Karnal-132001

The Executive Éngineer (Elect.) ÓPWD, 208-FIRSHIO Sector-3

Karnál

Subject: 10 submit the cost estimate for the civil, electrical & audio system works in

the Jubilee Hall, Senate Hall and Covering of Open Air Theatre at NIT.

Kurakshetra

Reference: This office letter No. 00/3527/816/5265 dated 28/31,12 2048

In continuation to letter under reference and as discussed with the Hon'ble Director during the visit on Bir 01 2019 to execute the civil, electrical and abuse system works in the Jubilco Flat., Senate Hall and <u>Covering of Open Air Theatre</u>. The Institute has arready been submitted the occurrence for propering too cost estimate for the above said works.

It is therefore, requested to aubmit the cost estimate for the above said works as the earliest, so that the early nation may be taken accordingly

This may be treated as most urgent

Prof. 90 (Estate & Condituation)

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