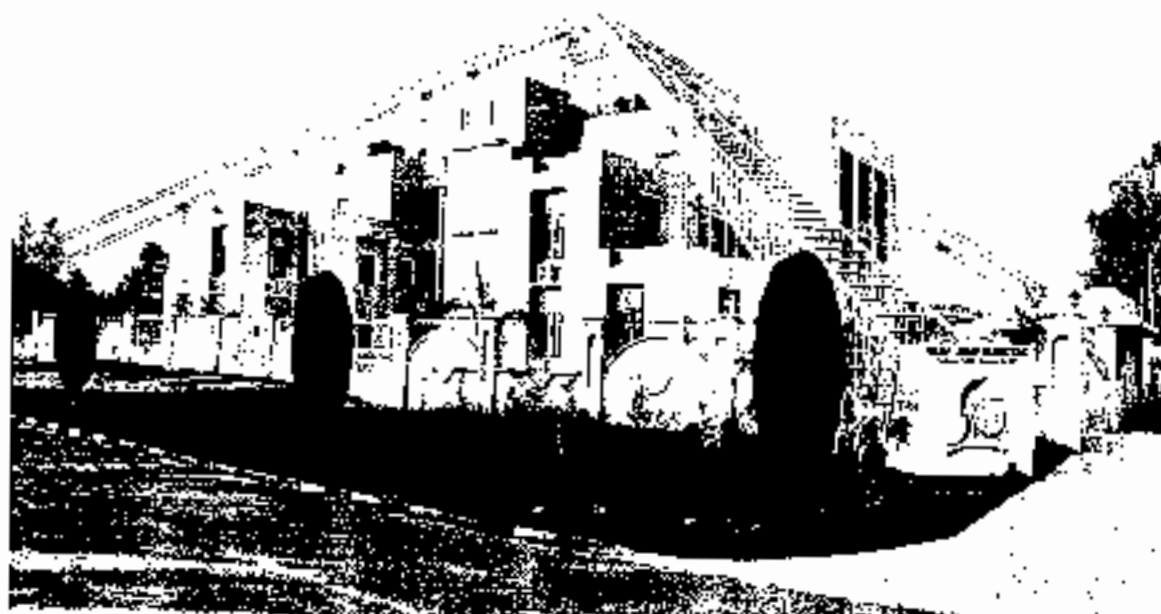




**AGENDA FOR 25TH
MEETING OF BUILDING &
WORKS COMMITTEE**

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**

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MEMBERS OF BUILDING AND WORKS COMMITTEE

- | | | |
|-----|--|-------------------------|
| 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,
HSI IDC, 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
Director,
National Institute of Technology,
Kurukshetra | Chairman |
| 2. 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 |
| 3. Prof. D.K. Soni
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 4. Er. R.K. Sao
Superintending Engineer (Electrical),
Chandigarh Central Electrical Circle, CPWD,
Sector 9-A,
Chandigarh | Member |
| 5. Sh. B.P.Singh
Superintending Engineer,
Chandigarh Central Circle
CPWD 2 nd Floor, Kendriya Sadan
Sector-9A,
Chandigarh. | Member |
| 6. Prof. S. M. Gupta
Prof. in-charge (Estate & Construction),
National Institute of Technology,
Kurukshetra. | Special Invitee |



Special Invitee

7. **Dr. Jayaram Nakka**
Faculty- in- Charge (Elect. Mtc & Telephone)
National Institute of Technology,
Kurukshetra

Special Invitee

8. **Sh. S.N. Kaushik,**
Assistant Engineer (Civil)
National Institute of Technology,
Kurukshetra

**Member-
Secretary**

9. **Shri G. R. Samantaray**
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.

CBA



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

EW

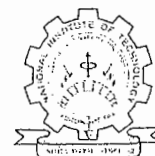


agency the CPWD will submit the final utilization certificate to the Institute and close the work.

- **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

Signature



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



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.



- **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



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.



- **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-fab 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 :

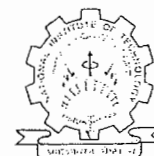
- (i) Additional floor with pre-fab technology of Rs. 2,58,69,375/-:**
In this regard, it was observed that the cost estimate of this work is in order seeing the feasibility as per site conditions.
- (ii) New construction of lift block and stair case of Rs. 1,64,53,320/-:** In this regard, it was suggested 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



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 in 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.

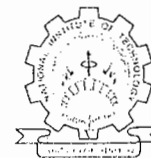
After due deliberations on the above matter the Building & Works Committee concluded and approved the preliminary cost estimate of Rs. 11,82,38,000/- for the complete project to the final expenditure after re-appropriation of items i.e. Centralized Air-conditioning instead of VRF system and construction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



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.

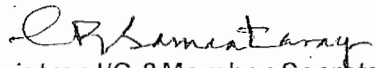
In view of the above the Building & Works Committee approved the preliminary cost estimate of Rs. 8,17,80,000/- for the construction of 2nd floor with normal construction over the existing building of MBA/MCA Department with the provision of lifts and centralized air-conditioning etc. at NIT, Kurukshetra.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




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
Director,
National Institute of Technology,
Kurukshetra | Chairman |
| 2. | 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 |
| 3 | Prof. D. K. Soni
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 4. | Er. R K Sao
Superintending Engineer (Electrical),
Chandigarh Electrical Central Circle, CPWD,
Chandigarh | Member |
| 5. | Sh. B.P.Singh
Superintending Engineer,
Chandigarh Central Circle
CPWD 2 nd Floor, Kendriya Sadan
Sector-9A, Chandigarh. | Member |
| 6. | Prof. S.M.Gupta
Prof. in-charge (Estate & Construction),
National Institute of Technology,
Kurukshetra | Special Invitee |
| 7. | Dr. Jayaram Nakka
Faculty In- charge (Elect. Mtc & Telephone)
National Institute of Technology,
Kurukshetra | Special Invitee |
| 8. | Er. S.N. Kaushik,
Assistant Engineer (Civil)
National Institute of Technology,
Kurukshetra | Special Invitee |

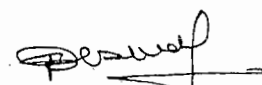
Subject: Minutes of the 24th meeting of the Building and Works Committee held on Tuesday 06th March, 2018 at 11.00 A.M in the Board Room of Golden Jubilee Administrative Building of the National Institute of Technology, Kurukshetra.

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/

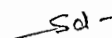
Dated: 03.2018

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

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

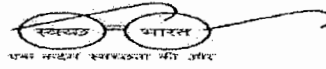
Member



(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 अभियन्ता
चण्डीगढ़ केन्द्रीय परिमण्डल
केन्द्रीय लोक निर्माण विभाग,
केन्द्रीय सदन, सेक्टर 9-ए,
चण्डीगढ़ - 160009



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

संख्या: चकेपरि/23(NDRI)/2017-18/ 609

दिनांक 27/3/18

सेवा में

✓
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.

भवदीय

27.3.18
अधीक्षण अभियन्ता
चण्डीगढ़ केन्द्रीय परिमण्डल,
के लो नि वि, चण्डीगढ़।

प्रतिलिपि:-

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

अधीक्षण अभियन्ता

27/3/18
Prof. M.C. (Est. & Ac)
27/3/18
27/3/18

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	<p>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:</p> <p>• 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:</p> <p>- the work of Installation of HT/LT Sub-Station including feeder pillar in residential area is</p>	<p>The work of providing & installation of electrical Sub-Station HT/LT distribution in Non-residential area has been completed. The final expenditure & final Utilization Certificate has been received and the work has been capitalized.</p> <p>The work of Installation of HT/LT Sub-Station including feeder pillar in residential area is almost</p>

		<p>almost complete;</p> <ul style="list-style-type: none"> - 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. <p>• 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 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</p>	<p>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.</p> <p>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 of old <i>Administrative Block</i>, has not been received from CPWD so far. CPWD may submit the above documents at the earliest alongwith final utilization certificate so that the balance payment may be released.</p>
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		<p>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.</p> <p>• 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.</p>	<p>The Executive (Civil) and (Elect.) CPWD 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 .</p> <p>The CPWD submitted the preliminary estimates for -</p> <p>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.</p>
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			<p>20(NIT)PS/KCD.201 8/532 dated 18.2.19.</p> <p>ii) Renovation of Jubilee Hall & senate hall (Electrical/audio system works) vide letter No. 20(38)/KCED/2019/101 dated 17.1.2019.</p> <p>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 .</p>
		<p>• 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.</p>	<p>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.</p> <p>A separate agenda item is placed in this meeting vide Item No. 25.6 regarding the work of water distribution network</p>

		<p>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</p> <p>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</p>	<p>for re-use of treated water for Horticulture 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.</p> <p>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.</p>
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		<p>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.</p> <p>• 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</p>	<p>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.</p>
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		<p>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.</p> <p>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.</p>	<p>The Work completed and put to use.</p>
		<p>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</p>	<p>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</p>

		<p>item No. 35.10 duly approved by BoG in its 42nd meeting held on 27.06.2017 is reproduced below:</p> <p><i>"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)"</i></p> <p>The decision of 36th Finance Committee held on 26.09.2017 vide item No. 35.10 is reproduced below:</p> <p><i>"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."</i></p> <p>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</p>	<p>against the balance payment of 600 seater girls hostel as per the decision of the 24th B&WC meeting held on 06.03.2018.</p> <p>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).</p> <p>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.</p>
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		<p>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.</p> <p>• Item No. 23.5: Regarding these items the Finance Committee approved the</p>	<p>The action taken regarding item No. 2 & 3 may be read under the action</p>
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		<p>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.</p> <p>• 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.</p> <p>• Item No. 23.7: Regarding the Finance Committee under agenda item FC 35 A4 approved the work for</p>	<p>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.</p> <p>In the light of the decision of Finance Committee. The matter regarding construction of shed of covering the Sports Complex Stairs was discussed in the EAC in its meeting held on 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 35th meeting held on 03.06.2017 and the same was approved by the BoG in its 42nd meeting held on 27.06.2017.</p> <p>The Work completed, put to use and capitalized.</p>
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		<p>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.</p> <p>• 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.</p>	<p>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 its meeting held on 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</p>
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		<p>was approved by the BoG in its 42nd meeting held on 27.06.2017.</p> <p>In the light of the decision of Finance Committee. The matter regarding provision of shed for parking for four wheelers only in the existing parking near NIT Market Complex was discussed in the EAC in its meeting held on 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. 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.</p>
	<p>• 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.</p> <p>• 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,</p>	<p>A letter vide No. EO/811/6232 dated 26/28.12.2018 sent to Director General NITs, Govt. of India, MHRD for proposal regarding delegation of powers to executing additions/ alterations/modifications etc. of Civil or Electrical</p>

		<p>Building & Works Committee for original / minor /repairs works.</p> <p>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.</p>	<p>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</p> <p>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.</p> <p>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.</p>
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24.3	<p>To consider and approve the preliminary cost estimate for the provision of additional floor by providing Pre-fab 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.</p>	<p>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 :</p> <p>Additional floor with pre-fab 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.</p> <p>(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</p>	<p>A letter vide No. CC/3550/114/1302 dated 11.2.2019 conveyed to Executive Engineer Civil and Electrical, CPWD regarding to submit the cost estimate 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 to CPWD. Accordingly, the process for A/A & E/S of this work will be initiated to allot this work to CPWD for execution.</p>
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		<p>cooling tower for centralized air-conditioning system.</p> <p>(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 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 in consolation with the SIEMENS .</p> <p>(iv) Extra for VRF system. air-conditioner, Access Control, 2 nos.</p>	
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		<p> 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. </p> <p> 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 re-appropriation of items i.e. Centralized Air-conditioning instead of VRF system and construction of separate room for centralized air-conditioning instead of construction of </p>	
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		<p>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 authorized to approve the complete estimate.</p>	
24.4	<p>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</p>	<p>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</p>	<p>The minutes of the Building & Works Committee were circulated amongst the members vide No. NIT/24th BWC/1434 dated 26.03.2018. The comments received from Superintending Engineer (Civil), CPWD 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. Further, a meeting was</p>

		<p>(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-fab 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.</p> <p>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.</p>	<p>held under the chairmanship of Chief Engineer (NZ-I), CPWD, Chandigarh on 18.04.2018. It 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 conventional RCC construction to be followed by CPWD. Accordingly, a Committee was constituted to check the feasibility for construction of additional floor with permanent construction over the existing building of MBA/MCA block and also suggested to hire the previous architect towards rendering the consultancy services for providing 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</p>
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			<p>CPWD alongwith A/A & E/S of this work for further execution as per conventional construction.</p> <p>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. already approved by B&WC subsequently FC & BOG.</p>
24.5	Any other item	<p>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.</p>	<p>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.</p>

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/repared 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. 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	19,17,815.00
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/ 832

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: Minutes of the meeting of Estate Affairs Committee held on 01.09.2018 in the office of Dean (R&D) & Chairman (EAC), IIT, Karukalpetra

A meeting of Estate Affairs Committee was held on 01.09.2018 at 10:30 AM in the office of Dean (R&D) to discuss the agenda items related to Estate Section.

Participants present:

1.	Dr. P. K. Jayaram, Dean (R&D)	Chairman
2.	Dr. K. K. Srinivas, Sr. Asst. Prof.	Member
3.	Dr. K. K. Srinivas, Sr. Asst. Prof.	Member
4.	Dr. An. Ganga, Asst. Prof. (IIT)	Member
5.	Dr. L. Chayak, Asst. Prof. (IIT)	Member
6.	Dr. Jayaram, Asst. Prof. (IIT)	Member
7.	Dr. Srinivas, Asst. Prof. (IIT)	Member
8.	Dr. Srinivas, Asst. Prof. (IIT)	Member
9.	Dr. Srinivas, Asst. Prof. (IIT)	Member
10.	Dr. Srinivas, Asst. Prof. (IIT)	Member

Following items were discussed and resolved as under:

1. To discuss the request received from the various departments regarding painting & fixing of tiled floor tiles, the water treatment tank & tiles, water stage flooring & water stage, kitchen partitioning in the shops & corridor of workshop & also etc. in various departments.

The requests received from the various Departments through official letters regarding painting & fixing of tiled floor tiles, the water treatment tank & tiles, water stage flooring & water stage, kitchen partitioning in the shops & corridor of workshop & also etc. in various departments. The matter was discussed in the EAC meeting and it was decided & recommended that the painting work estimate be prepared and the same be put up for EAC's next meeting. It was also decided that the work may be done as early as possible.

2. To discuss the cost estimate for water proofing treatment of roof top of Open Air Theatre.

The cost estimate for water proofing treatment of roof top of Open Air Theatre was discussed for an amount of Rs. 21,50,000/- from Executive Engineer (Civil) (EAC) vide letter No. 2018/2018/5400 dated 06.08.2018. The same was discussed in the EAC meeting. The EAC decided that a committee be constituted to look into the cost (EAC) for cost estimate & further approval of the estimate to EAC.

3. To discuss the request received from the EAC Officer vide letter No. 2018/2018 dated 31.07.2018 regarding water proofing treatment of changing room in Swimming Pool.

The request received from the EAC Officer vide letter No. 2018/2018 dated 31.07.2018 regarding water proofing treatment of changing room in Swimming Pool. The matter was discussed in the EAC meeting and it was decided that the work may be done as early as possible.

4. To discuss the cost estimate for painting & fixing of floor tiles for the Entrance stairs & path ways in Hostel No. 13 (Viswambhaya Pillay) & 14 (Sri. G. S. Srinivas) (Kannada Bhavan) (IIT), Karukalpetra.

The cost estimate for painting & fixing of floor tiles in the Entrance stairs & path ways in Hostel No. 13 (Viswambhaya Pillay) & 14 (Sri. G. S. Srinivas) (Kannada Bhavan) (IIT), Karukalpetra was discussed for an amount of Rs. 21,50,000/- from Executive Engineer (Civil) (EAC) vide letter No. 2018/2018/5400 dated 06.08.2018. The same was discussed in the EAC meeting. The EAC decided that a committee be constituted to look into the cost (EAC) for cost estimate & further approval of the estimate to EAC.

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	12,12,812.00
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

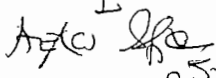
In view of the above, the detailed cost estimate amounting to Rs. 1,29,66,532/- prepared for the above said work is placed in the file. The same be discussed in EAC for further kind perusal please.

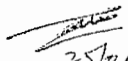

25/01/19
Assistant Engineer (Civil)


25/01/19
J.E. (Civil)-I


25/01/19
J.E. (Civil)-II

Prof. I/C (Estate & Construction)


25-01-19
Put in EAC.

SA 
25/01/19

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

Item No.	Code	Description	Qty.	Unit	Rate	Amount
False ceiling						
1	12.52	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 x 1.6 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 directed by Engineer-in-charge.				
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 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.	1024.7	Sqm	1163.90	1192671.61
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) :				0.00
2.1	21.1.1	For fixed portion				0.00
2.2	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	197	Kg	384.5	75746.50
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)				0.00
3.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	15.5	Kg	444.9	6895.95
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.				0.00
4.1	21.2.2	Pre-laminated particle board with decorative lamination on both sides	25	Sqm	866.6	21665.00
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):		Sqm		0.00
5.1	21.3.2	With float glass panes of 5.00 mm thickness	13	Sqm	912.68	11864.84
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.	2	each	359	718.00
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 :				0.00
7.1	9.97.3	200x10 mm	4	each	76.15	304.60
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	each	414.45	1657.80

	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.				0.00
9.1	9.101.2	Twin rubber stopper	2	each	38	76.00
10	21.16.2	Providing and fixing aluminium American type handle of size 200 mm anodised (anodic coating 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-in-charge Make : Everest/ Argent/ Classic	4	each	125	500.00
11	N.S.	Providing and fixing aluminium channel (heavy duty) for sliding door with rollers & stop end upto length 1.20m with necessary screws etc. complete as per direction of Engineer-in-charge.	2	each	1220	2440.00
Vitrified tiles						0.00
12	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	997	Sqm	1.5	1495.50
13	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
13.1	11.49.2	Size of Tile 600x600 mm	948	Sqm	1169.55	1108733.40
14	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
14.1	11.47.2	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 items of fixing of vitrified tiles.	997	Sqm	8.30	8275.10
16	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
16.1	11.48.2	Size of Tile 600x600 mm	997	Sqm	167.05	166548.85
Total						2652107.45
Add Cost Index @ 3.92% on Rs.2652107.45						103962.61
Total Rs.						2756070.06
Add Labour cess @ 1% on Rs. 2756070.06						27560.70
Total						2783630.76
NS Item at sr. no. 11						2440.00
Grand Total						2786070.76
Say Rs.						2786071.00

(Signature)
J.E. (Civil)-I 25/01/19

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

Prof. H.C. (E&C)

(Signature)
25/01/19

(Signature)
J.E. (Civil)-II 25/01/19

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 No.	Code	Description	Qty.	Unit	Rate	Amount
False ceiling						
1	12.52	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 directed by Engineer-in-charge.				
1.1	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 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.	137.50	Sqm	1163.9	160036.25
Vitrified tiles						
2	14.83	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	11.49.2	Size of Tile 600x600 mm	212	Sqm	1169.55	247944.60
4	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
4.1	11.47.2	Size of Tile 600x600 mm	25.00	Sqm	1240.60	31015.00
5	11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	237.00	Sqm	8.30	1967.10
6	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

Handwritten signature and date:
23/01/17

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
Add Cost Index @ 3.92% on Rs. 478942.20					18774.53
Total Rs.					497716.73
Add Labour cess @ 1% on Rs. 497716.73					4977.17
Grand Total					502693.90
Say Rs.					502694.00

J.E. (Civil)-I *Rush* 25/01/19

J.E. (Civil)-II *P35* 25/01/19

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

Prof./C. (E&C) *25/01/19*

of Department : Mechanical Engineering Department
 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
False Ceiling						
1	12.52	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 x 1.6 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 directed by Engineer-in-charge.				
1.1	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 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.	651.00	Sqm	1163.9	757698.9
Vitrified floor tiles						
2	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	252	Sqm	1.5	378
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
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 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
	11.47.2	Size of Tile 600x600 mm	32.00	Sqm	1240.6	39699.2
	11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	252.00	Sqm	8.30	2091.6
	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
	11.48.2	Size of Tile 600x600 mm	252.00	Sqm	167.05	42096.6
Kota Stone						
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.				0
5.1	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	25	Cum	997.05	24926.25
6	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

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 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
7.1	11.26.1 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 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.	35.00	Sqm	1238.20	43337
Aluminum Partitioning					0
9	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) :				0
9.1	21.1.1 For fixed portion				0
9.2	21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)	539	Kg.	384.5	207245.5
10	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)				0
10.1	21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)	16	Kg.	444.9	7118.4
11	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
11.1	21.2.2 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 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
12.1	21.3.2 With float glass panes of 5.00 mm thickness	30	Sqm	912.68	27380.4
13	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
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 colour or shade, with necessary screws etc. complete :				0
14.1	9.97.3 200x10 mm	4	Each	76.15	304.6
15	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	1657.8
16	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.				0
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 (anodic coating 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	4	Each	125	500
18	N.S. Providing and fixing aluminium channel (heavy duty) for sliding door with rollers & stop end upto length 1.20m with necessary screws etc. complete as per direction of Engineer-in-charge.	2	Each	1220	2440
Total					1824875.60
Add Cost Index @ 3.92% on Rs. 1824875.60					71535.12
Total Rs.					1896410.72
Add Labour cess @ 1% on Rs. 1896410.72					18964.11
Total Rs.					1915374.83
Add NS Item No.18					2440.00
Grand Total Rs.					1917814.83
Say Rs.					1917815.00

Recd
J.E. (Civil) 25/10/19

A.E. (Civil) 25/10/19

25/10/19
J.E. (Civil-II)

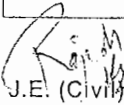
Name of Department: Physics, Education & Sports Section

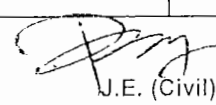
Name of Work: Plough Cast Estimate for Vitrified Floor Tiles, False Ceiling & Aluminium Partitions in Various Labs, Class Rooms & Offices etc. in various Departments at NIT Kozhikode

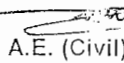
Specifications

Item No.	Code	Description	Qty.	Unit	Rate	Amount
1	232	False Ceiling Fixing and hanging flat iron plate of specified thickness of size 595x595 mm in a horizontal level supported by metal locking metal foot of hot dipped galvanized steel section of sub size 80 x 20 galvanized with side channel consisting of a pair of 11 number with suitable spacers joints to get required length and of size 24x38 mm made from 0.30 mm thick galvanized steel channel at 1200 mm center to center and cross of size 24x24 mm made of 0.30 mm thick plate (minimum) spaced to the and secured at middle of the 1200x24 mm channel at length of 600 mm and with angle of size 24x24x0.30 mm and lying in a plane and fixed at approved location in the grid making a smooth ceiling making a space of 120 mm between the slitters of 120 mm things, to turn under detectors etc. Main slitters to be suspended from ceiling as specified. Slitters of size 27 x 27 x 25 x 1.5 mm to be used along with 12 mm diameter 6 mm long each fasteners, 4 mm O.D. adjustable rods with washers and nuts of size 8 x 30 x 1.6 mm spaced at 1200 mm center to center along with 1.6 mm spaced water of 24 mm at all the places shall be provided with plastic paint and all materials shall be as per specifications, drawings and as directed by Engineer-in-charge				
1.1	232.2	Of Metal Ceiling Lay in approved regular edge slotted with a size of size 595x595 mm with 1 mm thick with 6 mm drop made of 10 sheet having galvanizing of 100 gms/sqm both sides (coating) and 20% extra area with 10 mm lap holes and having DRP (Dimple Protection) Protection of 0.5 mm in slits. Polyester powder coated with 100 microns of thickness including factory painted white bottom and priming and lapped with a black finish then accepted by EEC	175.20	Sqm	1133.9	198410.28
2	233	Painting Painting of CC floor up to 10mm thickness for surface complete as per direction of the Engineer in Charge	74	Sqm	1.5	111.00
3	232	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge				
3	232	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge	25	Sqm	1057.05	26426.25
4	234	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge				
4	234	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge	4	Sqm	1057.05	4228.20
5	235	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge				
5	235	Plastering Plastering of 1:2 cement mortar on the wall and ceiling including the cost of labour with 100 mm sand as per direction of the Engineer in Charge				0.00
		Total	100			124644.48

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	11.48.2	Size of Tile 600x600 mm	165.00	Sqm	167.05	27563.25
Total						469162.30
Add Cost Index @ 3.92% on Rs. 469162.30						18391.16
Total Rs.						487553.46
Add Labour cess @ 1% on Rs. 487553.46						4875.53
Grand Total Rs.						492429.00
Say Rs.						492429.00


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


J.E. (Civil)-II 25/01/19


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

Prof./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

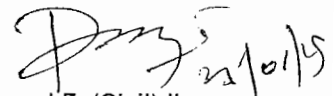
Specifications

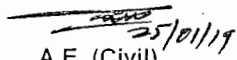
Item No.	Code	Description	Qty.	Unit	Rate	Amount
False ceiling						
Already exist where required						
Aluminum Partitioning						
1	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other 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	21.1.1	For fixed portion:				
1.2	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	1047	Kg	384.5	402571.50
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)				
2.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 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 paneling 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.				
3.1	21.2.2	Pre-laminated particle board with decorative lamination on both sides	110	Sqm	866.6	95326.00
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):				
4.1	21.3.2	With float glass panes of 5.00 mm thickness	50	Sqm	912.68	45634.00
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.	1	Each	359	359.00
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 :				
6.1	9.97.3	200x10 mm	2	Each	76.15	152.30
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.	2	Each	414.45	828.90
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	1	Each	38	38.00

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21.16.2	Providing and fixing aluminium American type handle of size 200 mm anodised (anodic coating 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-in-charge Make : Everest/ Argent/ Classic	2	Each	125	250.00
10	N.S. Providing and fixing aluminium channel (heavy duty) for sliding door with rollers & stop end upto length 1.20m with necessary screws etc. complete as per direction of Engineer-in-charge.	1	Each	1220	1220.00
	Vitrified Tiles				
	Already exist where required				
Total					549608.70
Add Cost Index @ 3.92% on Rs. 549608.70					21544.66
Total Rs.					571153.36
Add Labour cess @ 1% on Rs. 571153.36					5711.53
Grand Total					576864.89
Say Rs.					576864.89


J.E. (Civil)-I 25/01/19


J.E. (Civil)-II 25/01/19


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


Prof. I/C. (E&C) 25/01/19

Vitrified Tiles							0.00
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	Size of Tile 600x600 mm	115.00	Sqm	1240.60	142669.00	
9	11.5	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	1300.00	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 Index @ 3.92% on Rs. 2342685.33						91833.26	
Total Rs.						2434518.59	
Add Labour cess @ 1% on Rs. 2434518.59						24345.19	
Grand Total						2458863.78	
Say-Rs.						2458864.00	

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J.E. (Civil)-I

[Signature] 27/01/19
J.E. (Civil)-II

[Signature] 25/01/19
A.E. (Civil)

Prof./C. (E&C)

Name of Department : School Of VLSI Design & Embedded 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

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	Sqm	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
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	202.00	Sqm	167.05	33744.10
Total						272967.50
Add Cost Index @ 3.92% on Rs. 272967.50						10700.33
Total Rs.						283667.83
Add Labour cess @ 1% on Rs. 283667.86						2836.68
Grand Total						286504.50
Say Rs.						286504.50

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J.E. (Civil)-125/01/19

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

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Prof./C. (E&C) 25/01/19

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J.E. (Civil)-11 25/01/2019

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						
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						
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

Item 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.	60.00	Sqm	1238.20	74292.00
Total						2383694.50
Add Cost Index @ 3.92% on Rs. 2383694.50						93440.82
Total Rs.						2477135.32
Add Labour cess @ 1% on Rs. 2477135.32						24771.35
Grand Total						2501906.68
Say Rs.						2501907.00

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J.E. (Civil)-I 25/01/19

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J.E. (Civil)-II 25/01/19

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

[Signature]
Prof./C. (E&C) 25/01/19


Name of : Civil Engineering.
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.

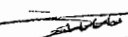
Specifications


Item No.	Code	Description	Qty.	Unit	Rate	Amount
		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 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	21.1.1	For fixed portion				
1.2	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	374	Kg	384.5	143803.00
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				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 pre-laminated 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


Item No.	Code	Description	Qty.	Unit	Rate	Amount
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.				0.00
8.1	9.101.2	Twin rubber stopper	2	Each	38	76.00
9	21.16.2	Providing and fixing aluminium American type handle of size 200 mm anodised (anodic coating 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-in-charge Make : Everest/ Argent/ Classic	4	Each	125	500.00
10	N.S.	Providing and fixing aluminium channel (heavy duty) for sliding door with rollers & stop end upto length 1.20m with necessary screws etc. complete as per direction of Engineer-in-charge.	2	Each	1220	2440.00
		Vitrified Tiles				0.00
11	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	206	Sqm	1.5	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	Sqm	167.05	34412.30
		CGI Sheet Shade				0.00
16	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 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

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 aggregate 20 mm nominal size).	3.00	Cum	5924.65	17773.95
18	10.16	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 special shaped washers etc. complete.				0.00
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 washers or with G.I. 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.				0.00
19.1	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m²	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 VOC 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
Add Cost Index @ 3.92% on Rs. 612210.59						25251.97
Total Rs.						669434.86
Add Labour cess @ 1% on Rs. 669434.35						6694.35
Total Rs.						676129.21
Add NS item no.10						2440.00
Grand Total						678569.21
Say Rs.						678569.00


J.E. (Civil)-II 25/01/19


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


Prof.I/C. (E&C) 25/01/19


J.E. (Civil)-II 25/01/19

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

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 and/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 Index @ 3.92% on Rs. 728676.95						28564.14
Total Rs.						757241.09
Add Labour cess @ 1% on Rs. 757241.09						7572.41
Grand Total						764813.50
Say Rs.						764814.00

J.E. (Civil)-I 25/01/19

A.E. (Civil) 25/01/19
Prof./I.C. (E&C)

J.E. (Civil)-II 25/01/2019

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 (in Rs)	Unit	Amount (in Rs.)	Remark
1	2.5 sq mm. PVC single core multi strand Copper wire	2 Roll (180 mtrs.)	1800.00	Roll (90mtrs.)	3600.00	As per market Survey
2	1 " PVC conduit pipe	300 ft.	5.00	Ft.	1500.00	
3	1" PVC junction Box	8 Nos.	10.00	Nos.	80.00	
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" GI 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	
			Total		48030.00	
			GST Extra as applicable			

[Signature]
A.E (Electrical)
5/12/18

[Signature]
Faculty I/C (EM & T)
6/12/18

[Signature]
J.E (Electrical)
06/12/18

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

Item No.	Description	Qty.	Unit	Rate	Amount	DSR Item No.
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
1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	13.86	Cum	615.15	8525.979	15.2.2
2	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	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size).	7	Cum	4209.05	29463.35	4.1.11
2.2	"1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	4.46	Cum	5481.95	24449.497	4.1.3
3	Providing and fixing 1st quality ceramic glazed wall 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.	351.3	Sqm	744.8	261678.03	11.36
4	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 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.	85.01	Sqm	747.9	63578.979	11.38
5	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 etc., complete.					11.41
5.1	Size of Tile 600x600 mm	115.2	Sqm	1119.2	128954.22	11.41.2
6	Taking out existing wooden door shutter, repair by 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 Engineer-in-charge.	2	Each	176.4	352.8	14.85

Pf

7	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by 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.	24.6	kg	66	1623.6	10.31
8	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:					9.21
8.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	11	Sqm	1559.75	17157.25	9.21.1
9	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes within 50 metres lead as per direction of Engineer- in-Charge. (a) Internal Work - Exposed on wall	275	Metre	2	550	14.84
10	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :					18.11
10.1	15 mm dia nominal bore	100	metre	285.7	28570	18.11.1
10.2	20 mm dia nominal bore	150	metre	316.2	47430	18.11.2
11	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					18.12
11.1	External work					
11.2	25 mm dia nominal bore	75	metre	205.85	15438.75	18.12.3
12	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	8	Each	55.45	443.6	14.82
13	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
13.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	8	Each	3494.2	27953.6	17.1.1
14	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:					17.7
14.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	8	Each	2298.55	18388.4	17.7.1

15	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
15.1	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	4	Each	9317.6	37270.4	17.5.2
16	Providing and fixing chaina Urinals with 5 litre P.V.C. automatic flushing cistern.	8	Each	390	3120	NS
17	Providing and fixing stone slab with table rubbed, 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.					8.10
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 quality conforming to IS:8931 :					18.49
18.1	15 mm nominal bore	16	Each	371.7	5947.2	18.49.1
19	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					18.53
19.1	15mm nominal bore	26	Each	475.7	12368.2	15.53.1
20	Providing and fixing PTMT grating of approved quality and colour.					18.58.
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 pipe with brass unions :					18.21
21.1	45 cm length					18.21.2
21.2	15 mm nominal bore	30	Each	67.8	2034	18.21.2.1
22	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.					13.42
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 paint with Silicone additives of required shade:					13.47
23.1	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)	606.2	Sqm	96.05	58224.55	13.47.1
24	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					6.4
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 straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
25.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	49.61	Kg	56.6	2807.926	5.22.6


Handwritten signature/initials

26	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					5.9
26.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	2.23	Sqm	342.9	764.667	5.9.5
27	Reinforced cement concrete work in beams, 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).	0.3	Cum	7390.8	2217.24	5.3
28	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :					13.8
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. handles conforming to IS:4992 with necessary screws etc. complete :					9.66
29.1	100 mm	10	Each	51.05	510.5	9.66.2
30	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete					9.63
30.1	250x10 mm	10	Each	64.00	640	9.63.1
31	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :					9.62
31.1	300x16 mm	5	Each	154.85	774.25	9.62.1
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					13.61
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 approved brand and manufacture to give an even shade :					13.41
33.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	26.82	Sqm	93.70	2513.034	13.41.1
34	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	84.36	Kg	58.45	4930.842	10.1
35	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					14.54
35.1	One or more coats on old work	152.8	Sqm	51.30	7836.588	14.54.1
36	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer in-charge.	8	each	795.15	6361.2	17.22A
37	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					18.10
37.1	32 mm dia nominal bore	9	meter	308.35	2775.15	18.10.4
38	Providing and fixing 600x450 mm beveled edge 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.	8	Each	817.95	6543.6	17.31

39	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					18.52
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 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 (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, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.					18.9
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 approved quality conforming to IS standards and weighing not less than 690 gms.					18.51
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. wheel of approved quality (screwed end) :					18.17
43.1	25 mm nominal bore	6	each	428.20	2569.2	18.17.1
				Total	1144522.98	
	Add Cost Index @ 3.92% on Rs. 1144522.98				44865.30	
	Total Rs.				1189388.28	
	Add Labour cess @ 1% on Rs. 1189388.28				11893.88	
	Grand Total				1201282.16	
	Say Rs.				1201300.00	

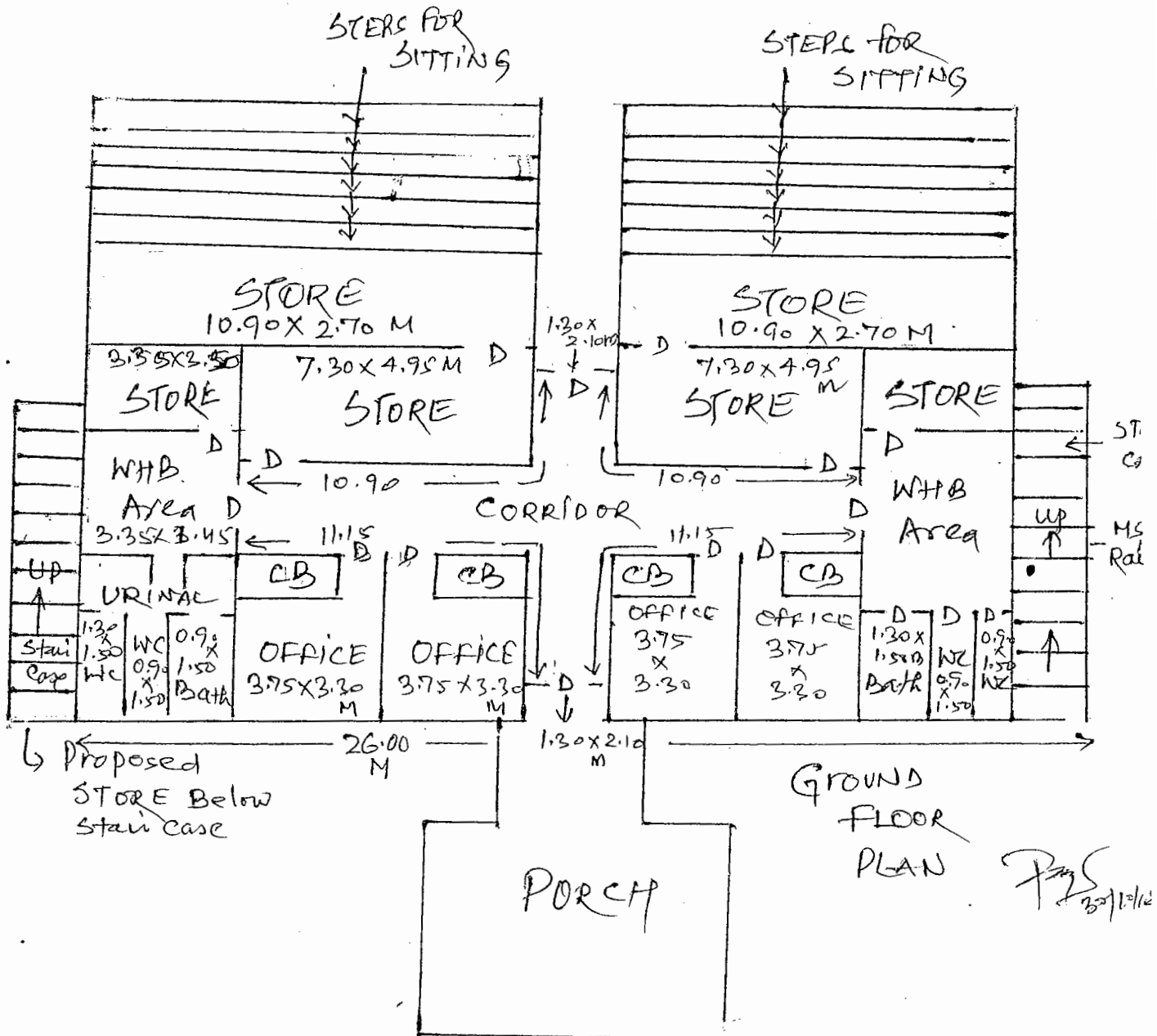

A.E. (Civil)


J.E. (Civil)-I


J.E. (Civil)-II

Prof. I/C (E & C)

SPORTS COMPLEX



The following items have been proposed:-

1. CORRIDOR:- Wall tiles upto 1.20 M height (Glazed ceramic tiles)
2. OFFICES:- Floor tiles (Vitrified Tiles)
3. Toilets :-(i) Floor tiles (Anty skid ceramic glazed tiles)
(ii) Wall tiles upto 2.00 M height (Glazed ceramic tile)
(iii) Urinal pots, WHB, plumbing works and finishes
4. External and Internal:- Finishes with weather painting and distempers
5. STORE:- Wall with Brick works; Door and finishes

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

With the reference of above cited subject, in this regard the Hon'ble Director Padmanab Dr. Ratan Kumar visited sports section along with Dean Students Welfare, Prof. in-charge Physical Education, SAE officers and AE Civil on October 2, 2018. After inspection of the whole area of sports section, the following observations noticed by Director which are to be improved for smooth function of sports section as well as day today working as give below

1. To renovate and change the tiles and flush system in both the toilets (male & female)
 2. To rent sports complex building as per other buildings of Institute.
 3. To renovate the sports section corridors wall with tiles up to 4 ft.
 4. To repair and paint the iron benches
 5. To change 6 halogen lights with LED light on sports complex building with specification of 4000 lux illumination. And also replace the flood lights which are not working and to change the old wires in sports complex building
 6. Existing Mosaic Flooring to be replaced with vitrified tiles.
 7. Three wooden working stations to be provided in the office of the sports section to accommodate more staff in one room
 8. Outside base floor has been settled which needs raising up to outer face of column along with main front wall
 9. Store room near cca which look very shabby condition the same required painting along with extra work.
 10. Existing wooden partition door to be replaced with solid flush door for safety point of view and existing doors are not in proper condition
 11. Early the suggestion for construction of boundary wall was proposed to be constructed. In addition to the above construction of boundary wall is not feasible at present so it is further proposed that existing mass angels to be extended up to 2 ft height along with bracing and tightening of existing fencing wire and more tensioning wire to be provide to reducing the space between them
 12. To construct the store room under the stair case towards the KU wall
- It is submitted for your further necessary action please

SAS Officer
03/10/18
SAS. Officer

Prof. VC
Prof. VC (Phy. Edu & Sports)

Dear (SW)

DEPT

03/10/18

Continued from pre page:-

The detailed cost estimate of Rs. 12,01,300=00 (Twelve Lacs one thousand three hundred Rs. only) for renovation/ refurbishment of toilets etc. and offices rooms including internal/ External finishing of supports Complex has been prepared is placed in the file. The items at sl no-05 and 07 are not preview.

In view of the above the detailed cost estimate of Rs. 12,01,300=00 is submitted for further kind perusal pl.

PJ 6/11/2018
JE (Civil)

AE (Civil) _____
6/11/18

Prd 1/c (PAC)
Prof. Chapp (Spets) for further no place
_____ 06/11/2018

SAGD

As the detail cost estimate amount 12,01,300=00 has been prepared by estate section as per our requirements the same may be please be allowed by the competent authority to allocate the fund from appropriate chargeable head. So that the work may be executed by estate section as per possible rate.

Prd 1/c / Prd. Edu. _____ 30/11/18
Secn. S.W _____ 30/11/18

Prd 1/c [EBC]

As per the ^{NIS} estimate received from AECU &
 AEC(E), total amount of Rs (12,01,300 + 48,030) Rs 12,49,330/-
 may please be sanctioned from the appropriate head &
 execute the above work.

Singh
 07.12.2018

Registrar Office

Dairy No...13579... Register D/c

Dt...7-12-18...

Pr
 7/12/18

Director
Pr
 7/12/18

Pr
 7/12/18

Pr
AEC(E)
AEC(E)
 11/12/18

SA / AEC(E) / II
 11/12/18

**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
(FAC) AT NIT, KURUKSHETRA.**

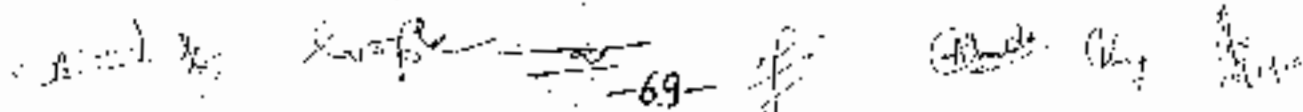
A meeting of Estate Affairs Committee was held on 29.01.2019 at 7.30 PM and on 7.02.2019 at 11.00 AM in the office of Dean (P&D) to discuss the various issues related to Estate Section.

Following were present

1.	Prof. A. Swarup, Dean (P&D)	Chairman
2.	Prof. S.M. Gupta, Prof. IC(E&C)	Member
3.	Prof. K.K. Singh, Prof. CED	Member
4.	Dr. Anil Mahiya, Faculty IC (H&T)	Member
5.	Dr. H.D. Chakraborty, Faculty IC (S&C)	Member
6.	Dr. Amlapu Mahesh, Faculty IC (EM&T)	Member
7.	Sh. S.N. Kausik, A.E. (Civil)	Member & Convener
8.	Sh. Ashish Choudhary, 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&WC in its ensuing meeting.
3. To discuss the cost estimate for the provision of internal & external finishing i.e. distempereing & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvery Bhawan & Kalpa Chawla) and Staff Quarters.
The cost estimate for the provision for finishing internal & external finishing i.e. distempereing & painting in the Boy's Hostels 1 to 10, Girls Hostel Alakhnanda Bhawan, Bhagirathi Bhawan, Cauvery Bhawan & Kalpa 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 the same 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 Building through corridor.



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 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.”

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), CPWD, 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 Hostel				
Sr. No.	Description	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.	Hostel No.-1	24,46,107.31	5,32,278.14	29,78,385.45
2.	Hostel No.-2	24,65,044.29	5,30,255.62	29,95,299.91
3.	Hostel No.-3	24,67,872.31	6,47,868.65	31,15,740.96
4.	Hostel No.-4	40,19,225.75	5,20,415.14	45,39,640.89
5.	Hostel No.-5	40,19,226.36	5,20,415.14	45,39,641.50
6.	Hostel No.-6	30,67,883.01	5,90,765.08	36,58,648.09
7.	Hostel No.-7	37,36,755.17	42,74,927.88	80,11,683.05
8.	Hostel No.-8	36,52,187.42	43,79,755.89	80,31,943.31
9.	Hostel No.-9	36,83,815.38	44,90,812.47	81,74,627.85
10.	Hostel No.-10	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	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.	Alaknanda Bhawan	23,44,887.08	3,55,450.21	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.	Description	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.	Distemping in rooms, lobby, kitchen, store, toilet enamel painting on doors, windows & grills etc. in residential building (except BT & CT Type Houses)	(E) 1,55,30,614.00	(F) 1,41,80,172.00	2,97,10,786.00
2.	Distemping in rooms, lobby, kitchen, store, toilet enamel painting on doors, windows & grills etc. in residential building (In BT & CT Type Houses)	(G) 20,57,962.00	(H) 15,75,021.00	36,32,983.00
	Grand Total of annexure A+B+C+D+E+F+G+H) *(attached with the agenda item)		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.

Dy. no. 105
Dt. 8/5/17

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)

11/5/17
(V.K. Arofa)

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

PIE (E2C), PIE (EM), PIE (H2L), PIE (S2C), 11/5/17

Chairman (Canteen Committee)

11/5/17

AE/Civil) Pless

propane

9/5/17

9/6/17

-74-

Rough Estimate for the material required for the canteen
11/5/17

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

Minutes of the 23rd meeting of Building & Works Committee, National Institute of 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
Director
National Institute of Technology
Kurukshetra | Chairman |
| 2. | Shri K. N. Rai
Former Chief Executive & Advisor
Ministry of Defense (DRDO)
C-4, 4112, Vasant Kunj
New Delhi | Member |
| 3. | Prof. D.K. Soni
Dean (Planning & Development)
National Institute of Technology
Kurukshetra | Member |
| 4. | Er. R. K. Sao
Superintending Engineer (Electrical)
Chandigarh Electrical Central Circle, CPWD
Kendriya Sadan, Sector-9A
Chandigarh | Member |
| 5. | Er. Mahender Pal Singh
Superintending Engineer (Civil)
Chandigarh Central Circle
CPWD, 2 nd Floor, Kendriya Sadan
Sector-9A
Chandigarh | Member |
| 6. | Prof. Arun Goel
Dean (Estate)
National Institute of Technology
Kurukshetra | Special Invitee |
| 7. | Prof. S. M. Gupta
Prof-in-Charge (E&C)
National Institute of Technology
Kurukshetra | Special Invitee |



- 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 upto 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.

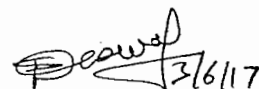
The Building & Works Committee deliberated on the matter and approved the financial budget estimate of Rs. 2.66 crore for periodical & maintenance work as per CPWD norms.

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

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

Authenticated

Director &
Chairman, Building & Works Committee
NIT, Kurukshetra

 3/6/17

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

SY NO. 124
DE: 4-6-17

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

No. DR (Acc.)/35th FC/2017/ 1314

Dated: 2/8/17

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.

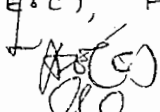
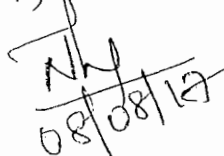
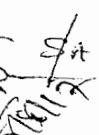
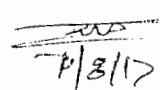
Encl: Agenda item

✓ Dean (Estate)


Deputy Registrar (Accounts)

Copy to:

1. Professor-in-Charge, Estate & Constructions
2. Deputy Registrar (Stores)
3. Sr. Secretary to Registrar

P/I (E&C), F I/c (E&C) 
37/08/17 
08/08/17 
7/8/17 

merged 07.08.2017

FUTURE WORKS (PRIORITY WISE)

Annexure-3

Sr. No.	Name of Work	Estimated cost (Rs. In lacs.)	Funds required during the year 2017-18 (Rs. In lacs)	Funds required during the year 2018-19 (Rs. In lacs.)
1	Supply and installation of Solarizer Solar water heating systems accessories at NITK	32.99	32.99	-
2	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.	266.05	266.05	-
3	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	-
5	Finishing floor with tiles in the common room, dining hall, warden office and MMCA office in the old boys hostel no. (1-6) and girls hostel no. -1 at NITK	31.01	31.01	-
6	Construction of shed for covering the sports complex stairs at NIT, Kurukshetra.	99.99	-	99.99
7	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
8	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

No./CC/3492/ 585/4254

Dated: 04.09.2017

To

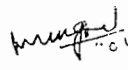
The Executive Engineer (Civil)
CPWD, NDRI Campus (Near State Bank of India)
Karnal-132001

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. CA/VKA/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.

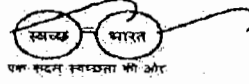
In this context, you are kindly requested to submit the cost estimate of finishing work internal & external i.e. distempering & painting in the Academic/Instructional buildings, Boy's Hostels No. 7 to 10, Cauvery Bhawan (Girl's Hostel), Sports Complex, Shopping Complex, Faculty House (Teacher's Flats), 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.


04.09.2017
Dean (Estate)

Copy to:

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



DY No. 1064
Dd. 13/9/17

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

संख्या: च.के.परि./23(3311)/W-III/2017-18/ 2407
सेवा में,

दिनांक: 13/9/17

The Dean(Estate),
National Institute of Technology,
Kurukshetra, (Haryana).

P/F (E&C), F J/C (EM&T)

विषय:-

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.

सन्दर्भ:-

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

महोदय,

उपरोक्त कार्य का 4,35,29,766/- रुपये 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 कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष का नाम (हेड आफ अकाउन्ट) भी उल्लेख करने की कृपा करें।

संलग्नक:- प्रारम्भिक अनुमान (दो प्रतियों में)

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

प्रतिलिपि:-

1. अधीक्षण अभियंता (वै.), चण्डीगढ़ केन्द्रीय वैद्युत परिमण्डल, के.लो.नि.वि., चण्डीगढ़ को सूचनार्थ प्रेषित है।
2. 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।

अधीक्षण अभियन्ता

13/9/17

Handed to be true copy
by through E-mail.
Hand copy is kept sent through Post

अधीक्षण अभियन्ता
चण्डीगढ़ केन्द्रीय परिमण्डल

13/9/17

**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: -

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

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 with up to date correction slip.

Method: Through contractor after call of tender.

Time: 3 Months (After award of work)

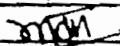
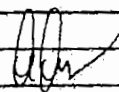
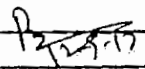
Cost: Rs. 4,35,29,766/- (i/c 3% contingencies)

mon
Assistant Engineer (P) -1,
Chandigarh Central Circle,
CPWD, Karnal

aa
Executive Engineer (P),
Chandigarh Central Circle,
CPWD, Karnal

Abstract of Cost-Preliminary Estimate

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

Sl. No.	Name of Work	Amount Civil Work	Remarks
	FOR THE FINISHING WORK OF VARIOUS INSTITUTIONAL BUILDINGS AT NIT KURUKSHETRA	10398783.00	Amount as Annexure
	FOR THE FINISHING WORK OF VARIOUS HOSTEL BUILDINGS AND CT/BT HOUSES AT NIT KURUKSHETRA	31444691.00	Amount as Annexure
	Total	41843474.00	
	ADD CONTINGENCIES @3%	1255304.00	
	Total	43098778.00	
	ADD LABOUR CESS @ 1%	430988.00	
	GRAND TOTAL	43529766.00	
	 Assistant Engineer (P)-I, Chandigarh Central Circle, CPWD, Chandigarh	 Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh	
	This Preliminary Estimate is hereby submitted to client department to getting A/A & E/S of the competent authority.		
			
		Superintending Engineer, Chandigarh Central Circle, CPWD, Chandigarh	

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 & 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					
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	16139.6	sqm	36.95	596358.00	13.43.1
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)	48454.9	sqm	98.80	4690434.00	13.47.1
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.	2000	sqm	87.35	174700.00	13.48
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.					13.49
1.4.1	One coat	64558.60	sqm	30.90	1994861.00	13.49.1
1.4.2	Two coats	16139.60	sqm	49.65	801331.00	13.49.2
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 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)	484.55	sqm	274.80	133154.00	14.1.1
2.2	Removing white or colour wash by scraping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	48454.9	sqm	8.35	404598.00	14.1.2
2.4	Removing dry or oil bound distemper, water proofing cement paint and the like by scraping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	16139.6	sqm	10.80	174308.00	14.1.3
2.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.54
2.5.1	One or more coats on old work	20210.2	sqm	51.30	1036783.00	14.54.1
				Grand Total	10006527.00	
				Add Cost Index @3.92% (On Estimate Total 102,74,442.00)	392256.00	
				Grand Total	10398783.00	
	Assistant Engineer (P)-I			Executive Engineer (P),		
	Chandigarh Central Circle,			Chandigarh Central Circle,		
	CPWD, Chandigarh			CPWD, Chandigarh		

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 & 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					
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	46325.80	sqm	36.95	1711738.00	13.43
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)	150161.00	sqm	96.80	14535585.00	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.	200.00	sqm	87.35	17470.00	13.4
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					
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)	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
2.4	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.	46325.80	sqm	10.80	500319.00	14.4
2.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					14.5
2.5.1	One or more coats on old work	81066.30	sqm	51.30	4158701.00	14.54
	Grand Total				30258556.00	
	Add Cost Index @3.92% (On Estimate Total 102,74,442.00)				1186135.00	
	Grand Total				31444691.00	
	Assistant Engineer (P)-I,					
	Chandigarh Central Circle,					
	CPWD, Chandigarh					
	Executive Engineer (P),					
	Chandigarh Central Circle,					
	CPWD, Chandigarh					

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. CAVKA/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 Academic /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)

J.E. (Civil)

Sr. Accountant

Prof. I/C (E&C)

Dean (Estate)

Dean (P&D)

D.R. (Accounts)

Registrar

Director

[Signature]
20/9/17

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20.9.2017

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20.09.2017

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20/9/17

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20/9/17

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20/9/17

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20/9/17

Dean (Estate)

[Signature]
20.09.2017

P/E (E&C)

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

No: CC/3492/580/4566

Dated 21.09.2017

To

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

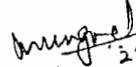
Subject: Administrative Approval & Expenditure Sanction as per Annexure-A for Internal & External finishing work i.e. distempering & painting in the Academic/Instructional buildings, Sports Complex, Shopping Complex, Teacher's Flats, Guest House & Health Centre, CCN, Library building, OAT and Electrical 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. No.	Name of Work	Revised Cost Estimate (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	1,08,17,854.00

This is being issued after approval of the competent authority.


21.09.2017
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
9. Additional Director General (NR-I), CPWD, Kendriya Sadan, Sector-9A, Chandigarh

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

6. 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 expenses.

7. To discuss the request received from Vikram Singh, House No-7 on dated 11.04.2018 – regarding construction of a side boundary wall (connecting QA-9 – DE-19).

The item was dropped.

8. To discuss a request received from Prof. Saraswati Salia, Prof. RC (Structural Dynamics Lab).

The request received from Prof. Saraswati Salia, Prof. RC (Structural Dynamics Lab) vide No. CE/D/2018/210 dated 8.2.2018 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 IEFA and the Civil Engineering Department may process the case accordingly with complete details.

9. 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. CE/100/CE/2016-17/95 dated 10.01.2017 was discussed in the EAC meeting and it was resolved that the first phase of installation of A/Cs in the Institutional area has already been completed. Further the Registrar has assured that the status regarding the installation of A/Cs in 2nd phase may be apprised alongwith complete case and related documents.

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

The cost estimate received from the Superintending Engineer (Civil), CHWD vide letter No. CCO/2017/11/2017-18/2407 dated 13.05.2017 was discussed in the Estate Affairs Committee meeting and resolved that the external freshening/painting of Instructional Buildings has already been completed during the visit of NRA. Further during the discussion regarding external freshening/painting work in BT, CT type houses, other residences, and hostels, it was resolved that this work will be carried out in a phase manner annually as per the availability of funds for the financial year upto five years cumulatively under the respective Chargeable Head (Maintenance or 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 freshening/painting in hostels, instructional buildings and Staff Quarters.

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

The cost estimate for the construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MSA/MCA building at MIT, Kurukshetra. The EAC discussed and before proceeding further the requirement of construction in the Instructional Buildings area may be checked by getting the sanctioned area of Construction of Mid-story Building for four Semesters (UG, Study and research etc.) with the guidelines framed in the light of IEFA. The item was dropped and this item was again discussed in the next EAC meeting.

EAC 6.9.18

ANNEXURE - A

SCHEDULE OF QUANTITIES

Cost estimate for internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 1 to 10 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	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	13.8
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	3,17,475.57	sqm	49.65	1,57,62,662.05	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	92,914.19	sqm	8.35	7,75,833.49	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.	57,857.76	sqm	10.8	6,24,863.81	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	1,15,884.19	sqm	51.30	59,44,858.95	14.54.
	TOTAL				3,88,49,971.95	
	Add Cost index @ 3.92 % (on Estimate 38849971.95 Total)				15,22,918.90	
	Total				4,03,72,890.85	
	Add Labour Cess @ 1% (on Estimate 40372890.85 Total)				4,03,728.91	
	Grand Total ₹				4,07,76,619.76	
	Say ₹				4,07,76,619.76	

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

27-10-19
P. H. K. (E & C)

4/11/19
A. E. (Civil)

4/11/19
R. J. E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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
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	sqm	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 Estimate 2330531.59 Total)				91,356.84	
	Total				24,21,888.43	
	Add Labour Cess @ 1% (on Estimate 2421888.43 Total)				24,218.88	
	Grand Total ₹				24,46,107.31	
	Say ₹				24,46,107.31	

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

MS

21/09/19
Hod I/c (F&C)

21/11/19
A-E (Civil)

21/11/19
J.E (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distemping in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 2 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	11,579.83	sqm	36.95	4,27,874.72	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.	11,579.83	sqm	87.35	10,11,498.15	13.8
1.3	Distemping 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	11,579.83	sqm	49.65	5,74,938.56	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	11,579.83	sqm	8.35	96,691.58	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	4,631.01	sqm	51.30	2,37,570.81	14.54
	TOTAL				23,48,573.82	
	Add Cost index @ 3.92 % (on Estimate 2348573.82 Total)				92,064.09	
	Total				24,40,637.92	
	Add Labour Cess @ 1% (on Estimate 2440637.92 Total)				24,406.38	
	Grand Total ₹				24,65,044.29	
	Say ₹				24,65,044.29	

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

09.01.19
P. J. I. C. (F & C)

4/1/19
A. E. (C. Mil)

Rajesh
J. E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 3 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	11,594.61	sqm	36.95	4,28,420.84	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.	11,594.61	sqm	87.35	10,12,789.18	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	11,594.61	sqm	49.65	5,75,672.39	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	11,594.61	sqm	8.35	96,814.99	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				23,51,268.22	
	Add Cost index @ 3.92 % (on Estimate 2351268.22 Total)				92,169.71	
	Total				24,43,437.93	
	Add Labour Cess @ 1% (on Estimate 2443437.93 Total)				24,434.38	
	Grand Total ₹				24,67,872.31	
	Say ₹				24,67,872.31	

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

(MS)

Prof. P. K. Singh
4/11/19
H.O. (E.C.)

A. F. (Civil)

Rajesh
4/11/19
J.E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distemping in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 4 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	18,524.26	sqm	36.95	6,84,471.41	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.	18,524.26	sqm	87.35	16,18,094.11	13.80
1.3	Distemping 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
1.3.1	Two coats	18,524.26	sqm	49.65	9,19,729.51	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	18,524.26	sqm	8.35	1,54,677.57	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	8,224.74	sqm	51.30	4,21,929.16	14.54.1
	TOTAL				31,14,430.35	
	Add Cost index @ 3.92 % (on Estimate 3114430.35 Total)				1,22,085.67	
	Total				32,36,516.02	
	Add Labour Cess @ 1% (on Estimate 3236516.02 Total)				32,365.16	
	Grand Total ₹				32,68,881.18	
	Say ₹				32,68,881.18	

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

PLS

Estimate
10.05.2019
A. F. (Civil)

4/11/19
A. F. (Civil)

Rajesh
4/11/19
J.E (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distemping in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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					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	18,524.26	sqm	36.95	6,84,471.41	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.	18,524.26	sqm	87.35	16,18,094.11	13.80
1.3	Distemping 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
1.3.1	Two coats	18,524.26	sqm	49.65	9,19,729.51	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	18,524.26	sqm	8.35	1,54,677.57	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	8,224.74	sqm	51.30	4,21,929.16	14.54.1
	TOTAL				31,14,430.35	
	Add Cost index @ 3.92 % (on Estimate 3114430.35 Total)				1,22,085.67	
	Total				32,36,516.02	
	Add Labour Cess @ 1% (on Estimate 3236516.02 Total)				32,365.16	
	Grand Total ₹				32,68,881.18	
	Say ₹				32,68,881.18	

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

MS

Prof. H. C. (E & C)

A. E. (Civil)

Rajesh
JE (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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
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.	14,280.72	sqm	87.35	12,47,420.89	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	14,280.72	sqm	49.65	7,09,037.75	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	14,280.72	sqm	8.35	1,19,244.01	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	6,229.12	sqm	51.30	3,19,553.86	14.54.1
	TOTAL				29,22,929.11	
	Add Cost index @ 3.92 % (on Estimate 2922929.11 Total)				1,14,578.82	
	Total				30,37,507.93	
	Add Labour Cess @ 1% (on Estimate 3037507.93 Total)				30,375.08	
	Grand Total ₹				30,67,883.01	
	Say ₹				30,67,883.01	

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

(MS)

Prof. H.C. (FAC)
4/11/19

A.F. (Civil)
4/11/19

Rajesh
4/11/19
J.E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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
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.	9,682.34	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	14.46
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	13,391.11	sqm	51.30	6,86,963.94	14.54.1
	TOTAL				35,60,197.84	
	Add Cost index @ 3.92 % (on Estimate 3560197.84 Total)				1,39,559.76	
	Total				36,99,757.60	
	Add Labour Cess @ 1% (on Estimate 3699757.60 Total)				36,997.58	
	Grand Total ₹				37,36,755.17	
	Say ₹				37,36,755.17	

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

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Prof. I. C. (E & C)

A. E. (Civil)

R. J. E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 8 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.	9,411.47	sqm	87.35	8,22,091.90	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	37,645.87	sqm	49.65	18,69,117.45	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.	9,411.47	sqm	10.8	1,01,643.88	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	13,387.38	sqm	51.30	6,86,772.59	14.54.1
	TOTAL				34,79,625.82	
	Add Cost index @ 3.92 % (on Estimate 3479625.82 Total)				1,36,401.33	
	Total				36,16,027.15	
	Add Labour Cess @ 1% (on Estimate 3616027.15 Total)				36,160.27	
	Grand Total ₹				36,52,187.42	
	Say ₹				36,52,187.42	

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

MS

Prof. P. C. D. 01.19
Prof. P. C. D. 01.19

41.1.19
A.E (Civil)

Ref. 12/19
JE (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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					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.	9,690.95	sqm	87.35	8,46,504.48	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	38,763.82	sqm	49.65	19,24,623.66	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.	9,690.95	sqm	10.8	1,04,662.26	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	12,358.07	sqm	51.30	6,33,968.99	14.54.1
	TOTAL				35,09,759.40	
	Add Cost index @ 3.92 % (on Estimate 3509759.40 Total)				1,37,582.57	
	Total				36,47,341.96	
	Add Labour Cess @ 1% (on Estimate 3647341.96 Total)				36,473.42	
	Grand Total ₹				36,83,815.38	
	Say ₹				36,83,815.38	

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

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Prof I/c (E & L)

A.E (Civil)

Rupn
JE (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Boys Hostel no. 10 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.	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
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.	29,073.00	sqm	10.8	3,13,988.40	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	40,176.00	sqm	51.30	20,61,028.80	14.54.1
	TOTAL				1,06,88,441.55	
	Add Cost index @ 3.92 % (on Estimate 10688441.55 Total)				4,18,986.91	
	Total				1,11,07,428.46	
	Add Labour Cess @ 1% (on Estimate 11107428.46 Total)				1,11,074.28	
	Grand Total ₹				1,12,18,502.74	
	Say ₹				1,12,18,502.74	

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

MB

27-01-19
Prof I/L (E+)

4/1/19
A.E (Civil)

Rajesh
4/1/19
J.E (Civil)

SCHEDULE OF QUANTITIES

Var. of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 1 to 10 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 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
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	sqm	274.80	4,94,640.00	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.	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 17402720.05 Total)				6,82,186.63	
	Total				1,80,84,906.68	
	Add Labour Cess @ 1% (on Estimate 18084906.68 Total)				1,80,849.07	
	Grand Total ₹				1,82,65,755.75	
	Say ₹				1,82,65,755.75	

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

(M)

Supd
Not II (E & C)

4/11/19
A.E (Civil)

Rajesh
4/11/19
J.E (Civil)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 1 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 including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	4,283.82	sqm	96.8	4,14,673.78	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.	214.19	sqm	87.35	18,709.58	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)	100.00	sqm	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 including necessary repairs to scratches etc. complete.	4,283.82	sqm	10.8	46,265.26	14.4
	TOTAL				5,07,128.62	
	Add Cost index @ 3.92 % (on Estimate 507128.62Total)				19,879.44	
	Total				5,27,008.06	
	Add Labour Cess @ 1% (on Estimate 527008.06 Total)				5,270.08	
	Grand Total ₹				5,32,278.14	
	Say ₹				5,32,278.14	

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

(MS)

Prof. I. C. (EAC)

A. E. (Civil)

Rajesh P. S.
J. E. (Civil)

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					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)	4,266.61	sqm	96.8	4,13,007.85	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.	213.33	sqm	87.35	18,634.42	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 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
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.	4,266.61	sqm	10.8	46,079.39	14.46
	TOTAL				5,05,201.66	
	Add Cost index @ 3.92 % (on Estimate 505201.66 Total)				19,803.90	
	Total				5,25,005.56	
	Add Labour Cess @ 1% (on Estimate 525005.56 Total)				5,250.06	
	Grand Total ₹				5,30,255.62	
	Say ₹				5,30,255.62	

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

148

Prof. T.K. (EAC)

A.E (Civil)

Rajesh
JE (Civil)

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

S.No.	Item	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	sqm	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
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.					14.1
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	100.00	sqm	274.80	27,480.00	14.1.1
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.	5,267.40	sqm	10.8	56,887.92	14.46
	TOTAL				6,17,257.61	
	Add Cost index @ 3.92 % (on Estimate 617257.61 Total)				24,196.50	
	Total				6,41,454.11	
	Add Labour Cess @ 1% (on Estimate 641454.11 Total)				6,414.54	
	Grand Total ₹				6,47,868.65	
	Say ₹				6,47,868.65	

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

NS

Prof. I (E & C)

A.E (Civil)

Rajesh
J.E (Civil)

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

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)	4,133.79	sqm	96.8	4,00,150.87	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.	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 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)	120.00	sqm	274.80	32,976.00	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.	4,133.79	sqm	10.8	44,644.93	14.46
	TOTAL				4,95,826.13	
	Add Cost index @ 3.92 % (on Estimate 495826.13 Total)				19,436.38	
	Total				5,15,262.52	
	Add Labour Cess @ 1% (on Estimate 515262.52 Total)				5,152.63	
	Grand Total ₹				5,20,415.14	
	Say ₹				5,20,415.14	

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

(MS)

Signature of P. I/c (E & C)

Signature of A. E (Civil)

Signature of J. E (Civil)

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

S	Item	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)	4,133.79	sqm	96.8	4,00,150.87	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.	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 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)	120.00	sqm	274.80	32,976.00	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.	4,133.79	sqm	10.8	44,644.93	14.46
	TOTAL				4,95,826.13	
	Add Cost index @ 3.92 % (on Estimate 495826.13 Total)				19,436.38	
	Total				5,15,262.52	
	Add Labour Cess @ 1% (on Estimate 515262.52 Total)				5,152.63	
	Grand Total ₹				5,20,415.14	
	Say ₹				5,20,415.14	

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

NS

Prof I (E & C)

A.E (Civil)

R. J. E (Civil)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 6 at NIT, Kurukshetra

S.No.	Item	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)	4,732.41	sqm	96.8	4,58,097.29	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.	236.62	sqm	87.35	20,668.80	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 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)	120.00	sqm	274.80	32,976.00	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.	4,732.41	sqm	10.8	51,110.03	14.46
	TOTAL				5,62,852.12	
	Add Cost index @ 3.92 % (on Estimate 562852.12 Total)				22,063.80	
	Total				5,84,915.92	
	Add Labour Cess @ 1% (on Estimate 584915.92 Total)				5,849.16	
	Grand Total ₹				5,90,765.08	
	Say ₹				5,90,765.08	

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

MS

Signature of
Prof. I. C. (E & C)

Signature of
A. E. (Civil)

Signature of
J. E. (Civil)

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

S.	Item	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)	35,738.00	sqm	96.8	34,59,438.40	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.	1,786.90	sqm	87.35	1,56,085.72	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 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	sqm	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.	35,738.00	sqm	10.8	3,85,970.40	14.46
	TOTAL				40,72,942.52	
	Add Cost index @ 3.92 % (on Estimate 4072492.52 Total)				1,59,659.35	
	Total				42,32,601.86	
	Add Labour Cess @ 1% (on Estimate 4232601.86 Total)				42,326.02	
	Grand Total ₹				42,74,927.88	
	Say ₹				42,74,927.88	

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

MS

• 27.08.2019
Prof. H. C. (E & C)

4.11.19
A.E (Civil)

27.08.2019
J.E (Civil)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Boys Hostel no. 8 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 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	sqm	87.35	1,59,981.53	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 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	sqm	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.	36,630.00	sqm	10.8	3,95,604.00	14.46
	TOTAL				41,72,817.53	
	Add Cost index @ 3.92 % (on Estimate 4172817.53 Total)				1,63,574.45	
	Total				43,36,391.97	
	Add Labour Cess @ 1% (on Estimate 4336391.97 Total)				43,363.92	
	Grand Total ₹				43,79,755.89	
	Say ₹				43,79,755.89	

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

48

28-01-19
Prof. H. C. (E. & C.)

A. E. (Civil)

R. J. E. (Civil) 19

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
1.1	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)	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
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 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	sqm	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	sqm	10.8	4,05,810.00	14.46
	TOTAL				42,78,626.81	
	Add Cost index @ 3.92 % (on Estimate 4278626.81 Total)				1,67,722.17	
	Total				44,46,348.98	
	Add Labour Cess @ 1% (on Estimate 4446348.98 Total)				44,463.49	
	Grand Total ₹				44,90,812.47	
	Say ₹				44,90,812.47	

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

MS

Prof. H. C. (EAC)

A. E. (CIVIL)

Ryoh
J E (CIVIL)

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

S. No.	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
2.1	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.					14.1
2.1.1	With cement mortar 1:4 (1 cement: 4 coarse sand)	360.00	sqm	274.80	98,928.00	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.	14,248.00	sqm	10.8	1,53,878.40	14.46
	TOTAL				16,94,240.94	
	Add Cost index @ 3.92 % (on Estimate 1694240.94 Total)				66,414.24	
	Total				17,60,655.18	
	Add Labour Cess @ 1% (on Estimate 1760655.18 Total)				17,606.55	
	Grand Total ₹				17,78,261.74	
	Say ₹				17,78,261.74	

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

(NS)

P. W. + H. C. (E + U)
08.01.19

A. E. (Civil)
4.11.19

R. J. (Civil)
J. E. (Civil)

ANNEXURE - C

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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.
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	30,880.75	sqm	36.95	11,41,043.71	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.	51,374.89	sqm D30:D3	87.35	44,87,596.64	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
1.3.1	Two coats	1,12,857.33	sqm	49.65	56,03,366.43	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	30,880.75	sqm	8.35	2,57,854.26	14.43
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.	20,494.45	sqm	10.8	2,21,340.06	14.46
2.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					14.54
2.3.1	One or more coats on old work	16,698.72	sqm	51.30	8,56,644.34	14.54.1
	TOTAL				1,25,67,845.45	
	Add Cost index @ 3.92 % (on Estimate 12567845.45 Total)				4,92,659.54	
	Total				1,30,60,504.99	
	Add Labour Cess @ 1% (on Estimate 13060504.99 Total)				1,30,605.05	
	Grand Total ₹				1,31,91,110.04	
	Say ₹				1,31,91,110.04	

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

(M)

Prof ILC (EAC)

A.E (Civil)

Ryash
J.E (CME)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distemping in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Girls Hostel Alaknanda Bhawan 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	12,106.59	sqm	36.95	4,47,338.50	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.	12,106.59	sqm	87.35	10,57,510.64	13.80
1.3	Distemping 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
1.3.1	Two coats	12,106.59	sqm	49.65	6,01,092.19	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	12,106.59	sqm	8.35	1,01,090.03	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	527.47	sqm	51.30	27,059.21	14.54.1
	TOTAL				17,86,752.07	
	Add Cost index @ 3.92 % (on Estimate 1786752.07 Total)				70,040.68	
	Total				18,56,792.75	
	Add Labour Cess @ 1% (on Estimate 1856792.75 Total)				18,567.93	
	Grand Total ₹				18,75,360.68	
	Say ₹				18,75,360.68	

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

MS

Prof. H. C. (E+C)

A.E. (Civil)

R. S. H. J. E. (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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					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	18,774.16	sqm	36.95	6,93,705.21	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.	18,774.16	sqm	87.35	16,39,922.88	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
1.3.1	Two coats	18,774.16	sqm	49.65	9,32,137.04	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	18,774.16	sqm	8.35	1,56,764.24	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	6,350.00	sqm	51.30	3,25,755.00	14.54.1
	TOTAL				30,54,579.16	
	Add Cost index @ 3.92 % (on Estimate 3054579.16 Total)				1,19,739.50	
	Total				31,74,318.66	
	Add Labour Cess @ 1% (on Estimate 3174318.66 Total)				31,743.19	
	Grand Total ₹				32,06,061.85	
	Say ₹				32,06,061.85	

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

(MS)

Signature
10/11/2019
HOTI/11(EXTC)

A.E(Civil)

Rajiv
J.E(Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distemping in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel 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
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.	6,249.58	sqm	87.35	5,45,900.81	13.80
1.2	Distemping 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	24,998.34	sqm	49.65	12,41,167.58	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.	6,249.58	sqm	10.8	67,495.46	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	7,287.14	sqm	51.30	3,73,830.28	14.54.1
	TOTAL				22,28,394.14	
	Add Cost index @ 3.92 % (on Estimate 2228394.14 Total)				87,353.05	
	Total				23,15,747.19	
	Add Labour Cess @ 1% (on Estimate 2315747.19 Total)				23,157.47	
	Grand Total ₹				23,38,904.66	
	Say ₹				23,38,904.66	

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

M8

Prof. H. C. (E & C)

A.E (Civil)

Rajesh Gupta
J.E (Civil)

SCHEDULE OF QUANTITIES

Cost estimate for Internal finishing work i.e. Distempering in rooms, corridors, stair cases & toilet blocks etc. including Synthetic Enamel painting on doors, windows & grills etc. in the Girls Hostel Kalpana Chawla 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.	14,244.56	sqm	87.35	12,44,262.32	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	56,978.24	sqm	49.65	28,28,969.62	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.	14,244.56	sqm	10.8	1,53,841.25	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	2,534.11	sqm	51.30	1,29,999.84	14.54.1
	TOTAL				43,57,073.02	
	Add Cost index @ 3.92 % (on Estimate 4357073.02 Total)				1,70,797.26	
	Total				45,27,870.29	
	Add Labour Cess @ 1% (on Estimate 4527870.29 Total)				45,278.70	
	Grand Total ₹				45,73,148.99	
	Say ₹				45,73,148.99	

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

MS

Prof. I. C. (E.T.C.)

A.E. (Civil)

Rajesh K. Singh
J.E. (Civil)

ANNEXURE- D

SCHEDULE OF QUANTITIES						
am of Work: - Cost estimate for external finishing work i.e. External painting in Girls Hostels A,B,C & KC at NIT, Kurukshetra						
S.No.	Item	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)	41,829.80	sqm	96.8	40,49,124.64	13.47.1
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.	6,918.05	sqm	87.35	6,04,291.23	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 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)	400.00	sqm	274.80	1,09,920.00	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.	13,043.67	sqm	10.8	1,40,871.64	14.46
	TOTAL				49,04,207.51	
	Add Cost index @ 3.92 % (on Estimate 4904207.51 Total)				1,92,244.93	
	Total				50,96,452.44	
	Add Labour Cess @ 1% (on Estimate 5096452.44 Total)				50,964.52	
	Grand Total ₹				51,47,416.97	
	Say ₹				51,47,416.97	

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

MS

20/01/19
A.E (E & C)

20/01/19
A.E (Civil)

20/01/19
J.E (Civil)

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
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.	138.96	sqm	87.35	12,137.98	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)	100.00	sqm	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 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)				13,275.30	
	Total				3,51,930.90	
	Add Labour Cess @ 1% (on Estimate 351930.90 Total)				3,519.31	
	Grand Total ₹				3,55,450.21	
	Say ₹				3,55,450.21	

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

(MS)

Prof I/c (EAC)

A.E (Civil)

JE (Civil)

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

S.No.	Item	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	13.47.1
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.	33.46	sqm	87.35	2,922.47	13.80
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.	669.14	sqm	10.8	7,226.71	14.43
	TOTAL				74,921.93	
	Add Cost index @ 3.92 % (on Estimate 74291.93 Total)				2,936.94	
	Total				77,858.87	
	Add Labour Cess @ 1% (on Estimate 77858.87 Total)				778.59	
	Grand Total ₹				78,637.46	
	Say ₹				78,637.46	

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

MB

Prof F/C (EAC)

A.E (Civil)

Rajesh
JEC

Name of Work: - Cost estimate for external finishing work i.e. External painting in Girls Hostel Cauvery Bhawan at NIT, Kurukshetra						
S.No.	Item	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)	14,248.72	sqm	96.8	13,79,276.10	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.	712.44	sqm	87.35	62,231.63	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 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
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.	3,562.18	sqm	10.8	38,471.54	14.46
	TOTAL				15,07,459.27	
	Add Cost index @ 3.92 % (on Estimate 1507459.27 Total)				59,092.40	
	Total				15,66,551.68	
	Add Labour Cess @ 1% (on Estimate 1566551.68 Total)				15,665.52	
	Grand Total ₹				15,82,217.19	
	Say ₹				15,82,217.19	

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

(12)

Signature
Prof I/c (E+C)

Signature
A.E (Civil)

Signature
J.E (Civil)

Name of Work: - Cost estimate for external finishing work i.e. External painting in Girls Hostel Kalpana Chawla at NIT, Kurukshetra						
S.No.	Item	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)	24,132.78	sqm	96.8	23,36,053.10	13.47.1
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.	6,033.19	sqm	87.35	5,26,999.15	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 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)	200.00	sqm	274.80	54,960.00	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.	6,033.19	sqm	10.8	65,158.45	14.46
	TOTAL				29,83,170.70	
	Add Cost index @ 3.92 % (on Estimate 2983170.70 Total)				1,16,940.29	
	Total				31,00,110.99	
	Add Labour Cess @ 1% (on Estimate 3100110.99 Total)				31,001.11	
	Grand Total ₹				31,31,112.10	
	Say ₹				31,31,112.10	

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

MS

Prof I/C (E+U)
01.11.19

A.E (CIVIL)
4.11.19

Rajesh
JE (CIVIL)
4.11.19

SCHEDULE OF QUANTITIES

Name of Work: - Cost estimate for Internal finishing work i.e. Distemping in rooms, lobby, kitchen, store, toilets Enamel painting on doors, windows & grills etc in Residential building(except BT-CT Type houses) 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	42,182.25	sqm	36.95	15,58,634.14	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.	65,681.22	sqm	87.35	57,37,254.57	13.80
1.3	Distemping 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
1.3.1	Two coats	1,41,867.01	sqm	49.65	70,43,697.05	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	42,182.25	sqm	8.35	3,52,221.79	14.43
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	14.46
2.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					14.54
2.3.1	One or more coats on old work	27,482.43	sqm	51.30	14,09,848.66	14.54.1
	TOTAL				1,47,96,810.94	
	Add Cost index @ 3.92 % (on Estimate 14796810.94Total)				5,80,034.99	
	Total				1,53,76,845.92	
	Add Labour Cess @ 1% (on Estimate 15376845.92 Total)				1,53,768.46	
	Grand Total ₹				1,55,30,614.38	
	Say ₹				1,55,30,614.38	

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

Ho I/C (E+U)

A.E (Civil)

Rgsh 4/11/19
J.E (Civil)

SCHEDULE OF QUANTITIES						
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
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)	1,15,010.54	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
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.					14.1
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
	TOTAL				1,35,10,175.00	
	Add Cost index @ 3.92 % (on Estimate 13510175.00 Total)				5,29,598.86	
	Total				1,40,39,773.86	
	Add Labour Cess @ 1% (on Estimate 14039773.86 Total)				1,40,397.74	
	Grand Total ₹				1,41,80,171.60	
	Say ₹				1,41,80,171.60	

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

(MS)

Supd. of work
A. T. I. (EAC)

4/11/19
A. E. (Civil)

Rgaxh
4/11/19
J. E. (Civil)

SCHEDULE OF QUANTITIES

Name of Work: - Cost estimate for Internal finishing work i.e. Distemping in rooms, lobby, kitchen, store, toilet etc. including Enamel 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
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.	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	sqm	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 2037586.15 Total)				20,375.86	
	Grand Total ₹				20,57,962.01	
	Say ₹				20,57,962.01	

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

Prof. H. C. (E. & C.)

A. E. (CIVIL)

R. J. E. (CIVIL)

SCHEDULE OF QUANTITIES

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					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)	11,778.39	sqm	96.8	11,40,148.15	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.	2,355.68	sqm	87.35	2,05,768.65	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 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
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	10.8	1,27,206.61	14.46
	TOTAL				15,00,603.41	
	Add Cost index @ 3.92 % (on Estimate 1500603.41 Total)				58,823.65	
	Total				15,59,427.07	
	Add Labour Cess @ 1% (on Estimate 1559427.07 Total)				15,594.27	
	Grand Total ₹				15,75,021.34	
	Say ₹				15,75,021.34	

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

(M8)

Signature of P. J. I. (E & C)

Signature of A. E. (Civil)

Signature of J. E. (Civil)

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 building so 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

four bad schools. Later, as per decision taken in 18th E&WC, in order to meet the increasing space requirements of the Institute, e.g. more faculty offices, class rooms, tutorial rooms, conference rooms, seminar rooms etc. were added to the structure (para 6.3b). This has resulted in an increase in plinth area which includes area of all the floors from approx. 10,000 sqm to approx. 21,000 sqm. The B&WC approved the cost estimate for an amount of Rs. 122,95,327.00/-.

Item No. 19.6 To consider & approve the Cost Estimate for providing Concertina coil over the Institute boundary for security purpose at NIT Kurukshetra

The Chairman, B&WC pointed out that in detailing of the item, it has been wrongly mentioned that Chairman BCG held a meeting with "Director and senior officers". Instead, it should read "Dean (Estate) and the security expert Mr. K. K. Rai" and the same be corrected. The B&WC considered the issue and it was resolved that concertina coil be provided all along the periphery maintaining its height at 7 feet above the ground level. The B&WC approved the cost estimate for Rs. 63,03,000/-.

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

The B&WC considered and approved the cost estimate for the construction of multi-storey building for Faculty (Professors/Associate Professors/Assistant Professors)/Officers having 40 apartments at NIT Kurukshetra to an amount of Rs. 36,83,02,400/- keeping in view the shortage of faculty houses.

Item No. 19.8 To consider & approve the revised Cost Estimate for extension of existing connecting corridor upto MBA/MCA and LHC block in the Instructional Building at NIT Kurukshetra

The B&WC deliberated on the matter and observed that the cost estimate has increased from Rs. 20,26 lakh to Rs. 79,500/- with the extension area covering additional space in two of the rooms in a big hall and two extra wide corridors between of LHC block and MBA/MCA block as decided in previous B&WC.

meeting. Therefore, the B&WC approved the revised cost estimate for Rs 24,79,500/-

Item 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. E-222, class rooms and labs in Electrical Engg. Department at NIT Kurukshetra

Members observed that the matter has not been recommended by the Estate Affairs Committee. Therefore, it was resolved that the same be referred to EAC for its decision in the matter before bringing it as an agenda item 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 B&WC deliberated on the matter where Professor Incharge (EM) apprised that the existing audio systems in the Senate and Jubilee Halls are not functioning properly and have outlived their utility. These require periodic repair and maintenance and despite that they have become unreliable. Therefore, audio systems need to be replaced/upgraded. Further, the Board Room of Golden Jubilee Administrative Building does not have any audio system which creates difficulties in the conduct of official meetings.

After due deliberations on the matter, the B&WC approved the revised cost estimate amounting to Rs. 2,00,11,080/- for providing audio system in the Board Room of Golden Jubilee Administrative Building and replacement/upgradation of audio systems installed in Senate Hall and Jubilee Hall of the institute.

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 Kurukshetra

The B&WC deliberated on the matter where it was pointed out by SC (F), NITK, D that the provision of peripheral road would increase the covered area of the Institute, thereby NIT Kurukshetra needs to meet E&A (Environmental Impact Assessment) requirement of Pollution Management and Prevention Act.

NATIONAL INSTITUTE OF TECHNOLOGY
(Under the Ministry of HRD, Govt. of India)
KURUKSHETRA-136119

No. Acc./2014/1294

Dated: 23.11.2014

NOTIFICATION

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 stage of work and preliminary drawings.*
- *Item nos. 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 approval cost by Building and Works Committee be revised 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 ensured that all the estimates received from the NITRD on the buildings be reviewed by Shri K. N. Rao, Consultant, who has sound & experience in this field.*

The above directions are directed for compliance and for the decision of the Board of Governors.

Dean (Estate)

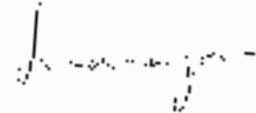
Deputy Registrar (Accounts)

3) To consider and approve the minutes of 30th meeting of the Finance Committee, National Institute of Technology Kurukshetra held on 19.09.2014.

For having considered the minutes of the 30th meeting of the Finance Committee of National Institute of Technology, Kurukshetra held on 19.09.2014.

This is to be put on record, noted and further necessary action to be taken.

For: Agenda Item


(Sriyam Narayan)
Registrar

- ✓ Dean/Exstute)
1. Deputy Registrar (IA & A)
2. Deputy Registrar (Accounts)

20/9/14
20/9/14
20/9/14

Subject: - Administrative Approval & Expenditure Sanction for approval of revised cost estimate for the work of extension of existing connecting corridor upto MBA/MCA and LHC Block in the Instructional Building at NIT, Kurukshetra.

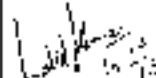
The B&WC in its 13th meeting held on 11.09.2014 vide item No. 193 approved cost estimate of Rs. 29,500/- for extension of existing connecting corridor upto MBA/MCA and LHC Block in the Instructional Building and which was subsequently approved by the FC in its 36th meeting & B&WC in its 34th meeting held on 19.09.2014.

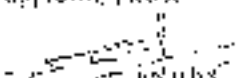
During the discussion on the drawing of the work in the Review Committee meeting with Mr. K.N. Rai it was decided that the width of corridor should be maintained as per existing corridor and extra provisions be excluded to decrease the cost estimate which was also approved by the Hon'ble Director, NIT, Kurukshetra.

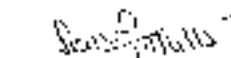
In response to the written Request (No. 1704/CPWD), General submitted the revised cost estimate amounting to Rs. 17,65,300/- (Rupees Eighteen Lacs five thousand three hundred only) vide item No. 20(142)PS/FCI/2014/2822 dated 20.11.2014.

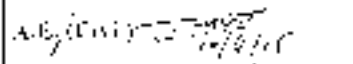
In view of the above, if agreed, the Hon'ble Director & Chairman (B&WC), may kindly approve the revised cost estimate of Rs. 17,65,300/- (Rupees Eighteen Lacs five thousand three hundred only) and accord Administrative Approval & Expenditure Sanction so that work may be added to CPWD.

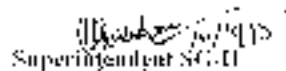
Submitted for approval, please

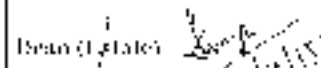

J.E. (Civil)

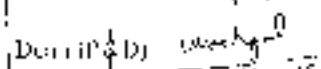

J.E. (Civil)


Senior Accountant


Prof. DC (R&C)

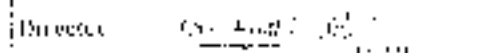

Superintendent SGT-II
Prof. DC (L&T)

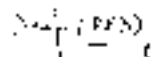

Dean (Plaster)

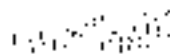

Dean (P&D)

D.R. Account (B) for final position, please.

Presently, Amala under Plan Grant has been exhausted. Confirmation of funds under Amala after reviewing of Plan Grant from MHEB.


Director


J.E. (Civil)


J.E. (Civil)

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA - 136119**

Minutes of 32nd Meeting of the Finance Committee, NIT, Kurukshetra held on 15th December, 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:

1. Prof. Anand Mohan
Director
National Institute of Technology
Kurukshetra
Chairperson (Acting)
2. 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
3. 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 32nd meeting 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 31st Meeting of the Finance Committee, National Institute of Technology, Kurukshetra held on 08.05.2015.**

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

- Item 32.2: To note follow up action taken on the 31st meeting of the Finance Committee held on 08.05.2015.**

The Finance Committee noted the follow up action taken by the Institute on the 31st meeting 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.

NATIONAL INSTITUTE OF TECHNOLOGY
Kharagpur-731005

228/6999

Date: 26.12.2011

The Executive Engineer (Civil)
NIT, BIRLA Campus (Near Shree Sukanta Hall)
Kharagpur-731005

The Executive Engineer (Elect)
NIT, BIRLA CAMPUS Sector-3
Kharagpur-731005

Subject: Regarding to submit the cost estimate for convert an or additional floor over the following existing building with the provision of lift and centralized air-conditioning at NIT, Kharagpur.

In reference to the meeting with the Civil Engineer (NIT, BIRLA) and the Architect of the Birbala Director held on 01.11.2011. After the meeting the below mentioned buildings have been identified with the Chief Architect along with Executive Engineer (Civil, Assistant Engineer (Civil) in presence of Prof. T.C. (E&T) and A.P. (Civil). The drawings of the proposed extension drawings have already been sent to Chief Architect (NIT, CPWD). Consequently through this office letter, you are requested to send the cost estimate for the said building for consideration with the Chief Architect (NIT) to be utilized for the following E&T meeting for further necessary action.

Area/Location	Location/Building	For conditioning required	Its needed	Minimum new requirement
1.	Construction of Additional floor over the existing building of Computer Application Department	In all floors	Yes	Low Class
2.	Construction of Additional floor over the existing building of Computer Engineering Department	In all floors	Yes	Low Class
3.	Construction of additional 3 nos. lecture hall over 1 st floor over the existing building of ECE Department and construction of additional floor over the Electronics & Communication Engineering Department	In all floors	Yes	Low Class
4.	Construction of Additional 13 nos. Lecture Hall over the existing 12 nos. Lecture Hall Complex	In all floors	Yes	Low Class
5.	Construction of Additional floor over the existing AD Block	In all floors	Yes	Low Class
6.	Construction of Additional floor over the existing building of Mechanical Hall	In all floors	Yes	Low Class
7.	Construction of Additional floor over the existing New Workshop Building	In all floors	Yes	Low Class
8.	Construction of extension existing building in Old MBA Extension of central building	In all floors	Yes	Low Class

It is therefore requested to submit the cost estimate of the above four buildings with the provision of lift and centralized air-conditioning as mentioned in the table as early as possible, so that the necessary may be taken in this regard.

Sd/-
For BIRLA Campus Civil and Elect

Copies to:

1. A.E. (Civil)
2. A.E. (Elect)
3. BIRLA Director, NIT Campus
4. A.P. (Civil, CPWD) NIT Campus
5. Deputy Director for land information system
6. State Registrar - Kharagpur
7. State Registrar - Kharagpur

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

Remindar

No. CC/3506/23/599

Dated 01.02.2019

To

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

The Executive Engineer (Elect),
CPWD, 208-B, HSIDC, Sector-3,
Karnal-132001

Subject: Regarding to submit the cost estimate for construction of additional floor over the following existing buildings with the provision of lifts and centralized air-conditioning at NIT, Kurukshetra

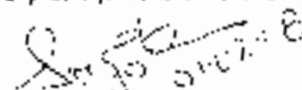
Reference: This office letter No. CC/3506/226/8999 dated 26.12.2017

In continuation to letter under reference and as decided in the meeting held on 11.01.2018 and after site visit in the presence of Superintending Engineer (Civil). You are requested to send the cost estimate for the below mentioned buildings in consultation with the Chief Architect (NZ-II) to be put up in the forthcoming BAWC meeting for further necessary action.

Sr. No.	Location/Building
1	Extension of additional floor for SIEMENS Centre over the New Workshop Building by providing Pre-fab construction with the provision of Air-conditioning in all floors, lifts & staircase etc. for establishing the Centre of Excellence (workshop at ground floor and lab at 1 st floor) by SIEMENS at NIT, Kurukshetra
2	Additional floor by providing Pre-fab construction over the existing building of MBAMCA Department in lieu of shifting of class rooms and labs from New Workshop Building with the provision of air-conditioning in all floors & lifts etc. at NIT, Kurukshetra
3	Additional floor by providing Pre-fab construction of (6 nos. Lecture Hall) over the existing 12 nos. Lecture Hall Complex with the provision of air-conditioning in all floors & lifts etc. at NIT, Kurukshetra
4	Additional floor by providing Pre-fab construction over the existing building of Computer Engineering Department with the provision of air-conditioning in all floors & lifts etc. at NIT, Kurukshetra
5	Additional floor by providing Pre-fab construction over the existing Examination Hall with the provision of air-conditioning in all floors & lifts etc. at NIT, Kurukshetra
6	Additional floor by providing Pre-fab construction of (3 nos. Lecture Hall) over the existing 06 nos. Lecture Hall Complex in the Electronics & Communication Engineering Department with the provision of air-conditioning in all floors & lifts etc. at NIT, Kurukshetra
7	Construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and MBAMCA Building at NIT, Kurukshetra

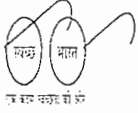
It is therefore once again requested to submit the cost estimates for the above said works as early as possible, so that the same may be put up in the forthcoming BAWC meeting going to be held very shortly.

It may please be treated as most urgent.


Prof. MC (Safety & Construction)

Copy to:

1. A.E. (Civil)
2. Faculty MC (E&T)
3. A.E. (Elect), CPWD, NIT Campus
4. A.E. (Civil), CPWD, NIT Campus
5. Superintending Engineer (Civil), CPWD Chandigarh Central Circle- Kandiya Sector, Sector-8A, Chandigarh
6. Superintending Engineer (Elect), CPWD Chandigarh Central Circle- Kandiya Sector, Sector-8A, Chandigarh
7. Chan (PSD) for kind information please
8. S.S. to Registrar for kind information of the Registrar
9. S.S. to Director for kind information of the Director



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 स्टेट 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,

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

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 रुपये 74,13,100/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतु संलग्न है।

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

संलग्न : उपरोक्त दो प्रतियों में।

Along with line diagram

भवदीय,

(इंजी. चरणजीत पसरीजा)

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

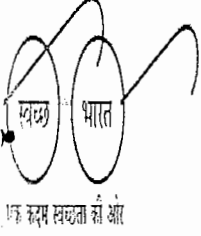
प्रतिलिपि :-

1. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़ 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 हैं तो आप उनका प्रारम्भिक अनुमान बनाकर चण्डीगढ़ केन्द्रीय परिमण्डल कार्यालय को भेज दें, ताकि ग्राहक विभाग से प्रशासनिक स्वीकृति एवं मंजूरी प्राप्त हो सके।
3. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को सूचनार्थ।

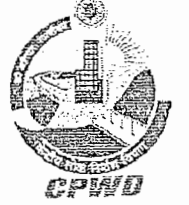
कार्यपालक अभियन्ता



Ist 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:- 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.
2. 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 & P:

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:

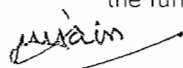
04 Months (After receipt of A/A & E/S)


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

LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

To

Shri. (Name),
Senior (Official) Engineer,
Public Works
Department.

Subject: Execution of Deposit works.

Construction of extension of existing corridor from New Workshop Building to 12 nos. Lecture Hall Complex and 105/90A Building at N.T. Kurukshetra.


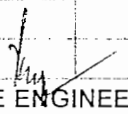
The above work can be taken up by the CPWD as a Deposit work under Para 1.8.119 of CPWD Code subject to the following:

1. Full estimated cost of works worked out by CPWD including depreciation charges will have to be assessed by the client department before the work is taken up for execution. No money will be paid by CPWD to the client department for such charges.
2. The client department should hand over vacant possession of 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 above work will be subject to arbitration as provided for in the contract agreement. CPWD will follow 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 debited to the payments made to the contractors for execution of work.
6. After receipt of A/E & P/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans for 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 take 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 at a time par with local bodies to make approval.
7. If CPWD runs out of funds even for executing 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 materials and wages.
8. The client department will help CPWD in (a) providing site facilities for the contractor's labour (b) providing free access to contractor's material and labour to the site of work (c) providing electricity connected for execution of work (d) payment of fuel charges, and (e) sanctioning of load from the concerned electricity board authorities.
9. CPWD may require the client to deposit the funds in instalments. In such case if the sum is not retained for a long time, up to the last portion of the estimated expenditure.
10. In case where funds are deposited in instalments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation, wages etc. due to non receipt of funds in time.

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

Yours faithfully,

Executive Engineer,
Karnal District Office
CPWD, N.M.I. Camp,
KARNAL DISTRICT.

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. cost.	12.50	635625.00	1.2.8
	Total	5085000.00			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/-	
 ASSISTANT ENGINEER (P)		 EXECUTIVE ENGINEER KARNAL CENTRAL DIVISION CPWD, KARNAL				

NR-2

EAC - 6.9.18

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.

- 6 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.

- 9 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 Buildings and Staff Quarters.

- 10 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.

144

1/2

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		Permissible area category wise		Existing		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.
I	Academic/admin/librariy/ labs/workshops.	176580	30	55000.35	9.34	20.66	121579.65
II	Residential area - hostels + faculty + staff quarters	206010	35	199423.98	33.88	1.12	6586.02
III	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,

[Signature]
28/8/18
A.E. (Civil)

[Signature]
28/8/18
J.E. (Civil)

[Signature]
28/8/18
Senior Accountant

[Signature]
28.08.2018
Prof. T/C (Estate & Construction)

[Signature]
29/8/18
Dean (P&D)

Registrar

Director

The check-list & cash flow statement for Grievance CoE are also attached for kind appraisal pl.

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Dean (P&D)

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P11 (E&C)

DUP&D/E0/109
29/8/2018

Registrar Office

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Dt. 30.8.18

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31/8/18

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&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.

[Handwritten signatures and initials]
-146-

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 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.” (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-cum-preliminary 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:

- | | | |
|----|---|-----------------|
| 1. | Prof. Anand Mohan
Director,
National Institute of Technology
Kurukshetra | Chairman |
| 2. | Sh. Vijay Prakash Saha
Mamta Bagicha,
Morahabis, Ranchi-834008 | Member |
| 3. | Prof. V.K. Arora
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 4. | Er. Niranjana Singh
Superintending Engineer (Civil),
Chandigarh Central Circle, CPWD,
Chandigarh. | Member |
| 5. | Er. Vimal Kumar
Superintending Engineering (Electrical),
Chandigarh Electrical Central Circle, CPWD,
Chandigarh. | Member |
| 6. | Prof. K.K. Singh
Chairman (Estate, Const. & Elect. Mtc.),
National Institute of Technology,
Kurukshetra | Special Invitee |
| 7. | 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 |

[Signature]

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.

- 15.9 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.

- 15.10 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.

- 15.11 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.

NATIONAL INSTITUTE OF TECHNOLOGY
(Under the Ministry of Health & Family Welfare, India)
KURUSHNETRA - 136139

Ref. Act./24th FC/1040/11

Date: 29.03.2012

Page No. 1/1

To report the follow up action in the minutes of the 24th meeting of the Finance Committee held on 12.03.2012

The extracts of the minutes of the 24th meeting of the Finance Committee held on 12.03.2012 with a copy of the relevant agenda item relating to your Dept./Section are sent herewith.

The action of the minutes may be taken and intimated to your section within a week for reporting the same to the FC/BOB in their next meeting.

This may be treated as Most Urgent.

(Signature)
Deputy Registrar (Acad.)

AC-1	24.1, 24.2, 24.3
AC-2	24.4
DR/IA	24.5
Dean (SSC)	24.6
Dean (SSA)	24.7
Chairman (A, C & BOB)	24.8
President, BEO Employees	24.9
Co-operative Society	

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: 4/4/2012

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

1. Deputy Registrar (Accounts)

[Signature]
04/04/12
Registrar(Incharge)

[Signature]

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10/4/12

पंजीकृत पावती

केन्द्रीय लोक निर्माण विभाग
448, सुभाष कालोनी
करनाल केन्द्रीय मण्डल, करनाल

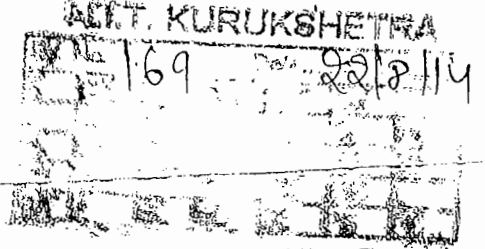
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संख्या- 54(NIT)/क.के.मं/2014/ 2355 14/17

दिनांक

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.मं/2355 दिनांक 17.07.2014 एवं आपके बैंक गारंटी संख्या 02/14-15 दिनांक 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.

R D Dean (Estate)
22/8/14

भवदीय,
22/8/14

कार्यपालक अभियंता
करनाल केन्द्रीय मंडल
के.लो.नि.वि, करनाल

SA

27/8/14

प्रतिलिपि :-

1. मूल करार।
2. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमंडल, के.लो.नि.वि, चण्डीगढ़ को सूचनार्थ प्रेषित।
3. निदेशक, एन.आई.टी, कुरुक्षेत्र।
4. आयकर अधिकारी, आयकर कार्यालय, कुरुक्षेत्र।
5. वरिष्ठ श्रम अधिकारी (उ.अ.), के.लो.नि.वि, केन्द्रीय सदन, चण्डीगढ़।
6. सहायक अभियंता, कुरुक्षेत्र, केन्द्रीय उप-मंडल, कुरुक्षेत्र।
7. सहायक अभियंता(यो.)/कार्यालय अधीक्षक/रोकडिया, करनाल केन्द्रीय मंडल, करनाल।
10. श्रम प्रवर्तक अधिकारी (केन्द्रीय), कोठी न. 32, बैंक कालोनी, करनाल।



जित्वा सारथ्यः च

ਦੇਸ਼ੀਅ ਹੀਨਰ ਵਿਦਿਆ ਪਿਛਾਤ

CENTRAL INTELLIGENCE AGENCY

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Fax: 124 225.1750.

Received 15 November 2005; accepted 17

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Dean (Estate),
National Institute of Technology,
Kharagpur

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 177. *Q. macrocarpa* (Mill.)
 178. *Q. prinus* (L.)
 179. *Q. agrifolia*

Scope : Design, supplying, Installation and Commissioning of MLD Capacity Sewer Treatment based on MBBR (Moving Bed Bio-Reactor) technology & Operation maintenance for 60 months after successful completion of defect liability period (12 months on turnkey basis on Moving Bed Bio-Reactor (MBBR) technology at Kuralahetra (Harvard) - Regarding reverse of fugate

• 12/24/2019

With reference to above cited subject & letter, please find enclosed herewith copy of the Government Sanction Certificate of the above cited work & give its intimation in the statement it is clearly evident that an amount of Rs. 1,36,52.94/- has been sanctioned for A/A & C/A amounting to Rs. 3,18,08,399/-. As on 29-05-2018 expenditure of 1,67,20,244/- has already been booked which in aggregate of Rs. 36,81,503/- has been taken

As you are aware that the work has been completed and held for the relevant department after receiving the orders this office has not received further amount of Rs. 75,00,000/- (Rs. 75 Lakhs) and Rs. 30,58,991/-.

If you are requested to deposit \$30-\$50,000 at the cashier, do not remove and sell or cleared and this officer may also be able to identify you as the recipient of the payment into the cash collection.

1. 1990-1991
 2. 1991-1992
 3. 1992-1993

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

[illegible]

The authors of Kugler et al. (2007) used a similar method to estimate the effect of the 1997-1998 Asian financial crisis on the growth rate of the Japanese economy and 'found a 1.9% drop in the growth rate of the Japanese economy'.

... 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681,

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

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NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-135119

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
Director,
National Institute of Technology,
Kurukshetra | Chairman |
| 2. Shri A K Singhal
Director General (Retired),
C P W D,
Flat No. B 2012
Gaur Green City Vaibhav Khand
Indrapuram, Dist. Ghaziabad-201020 (UP) | Member |
| 3. Prof. D.K. Soni
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 4. Er. R.K. Saxi
Superintending Engineer (Electrical)
Chandigarh Control Electrical Circle (CPWD),
Sector 9 A,
Chandigarh | Member |
| 5. Sh. B.P. Singh
Superintending Engineer,
Chandigarh Control Circle
CPWD 2 nd Floor, Kondiya Sadan
Sector 9A,
Chandigarh | Member |
| 6. Prof. S. M. Gupta
Prof. in charge (Estate & Construction)
National Institute of Technology,
Kurukshetra | Special Invitee |



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 terracotta and plaster etc. in teaching and non-teaching houses was scrutinized jointly by CPWD Officers and Institute Officers. It was decided to defer the start for the time being as per approval of the competent authority.
- Item No. 19.10: Regarding the contract for 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 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 Fushing in 600 seater Girls Hostel and 500 seater Vaidya Prasad 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/E & E/S for this work will be conveyed to CPWD after approval of the competent authority and the funds for this work will be allocated from the saving of the STP work.

Item No. 21.3: Regarding the work of 500 seater Girls Hostel stands completed and has been handed over and put to use. The work of Fire

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No./CC 3501/ 293 | 2334

Dated: 09.05.2018

To

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.

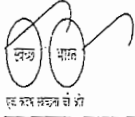
In reference to letter received from Assistant Engineer (Civil), CPWD, Kurukshetra Central Sub-Division, CPWD Kurukshetra vide letter No. 24(01)/NIT/KCSD/2017-18/site dated 21.11.2017, stated that Dr. Baldev Setia, Prof. Civil Engineering Department submitted the design vide letter No. CED/1256 dated 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:

1. 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



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 स्टेट 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/2018/4491

दिनांक 6/12/2018

सेवा में,

डीन (एस्टेट), /PROF/LEBO
राष्ट्रीय प्रौद्योगिकी संस्थान,
कुरुक्षेत्र हरियाणा।
पिन-136118

AE(C)/AE(E) Put in the Camp Bmt

6/12/18

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 318.18 लाख रुपये है आपके कार्यालय के पत्र सं० 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। चूंकि 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 हेतु भेजा गया था। अधीक्षण अभियंता, चण्डीगढ़ के कार्यालय पत्र सं० 2483 दिनांक 04.12.2018 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 रुपये 1,01,24,100/- है। आपके कार्यालय से व्यय स्वीकृति हेतु प्रेषित किया जाता है।

भवदीय,

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

संलग्न : उपरोक्त दो प्रतियों में।

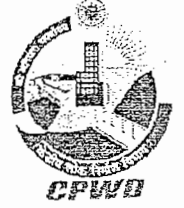
प्रतिलिपि :-

1. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़ पिन - 160009 को उनके पत्र सं० 23(4515)/W.III/2483 दिनांक 04.12.2018 के संदर्भ में सूचनार्थ।
2. कार्यपालक अभियंता (वै.), करनाल केन्द्रीय वैद्युत मण्डल, के.लो.नि.वि, करनाल, को सूचनार्थ।
3. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र 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 deed (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.
2. 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
A.	CIVIL WORK	8643887.00	
B.	ELECTRICAL WORK (Executive Engineer (E), Karnal Vide Letter No. 20(38)/KCED/912 dated 10.05.2018)	1480142.00	
	TOTAL	10124029.00	
	Say Rs.	1,01,24,100/-	
 Assistant Engineer (P)		 Executive Engineer Karnal Central Division CPWD, Karnal	

Original 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. Sht:- 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.					
SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
1	EARTH WORK					2
1.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					2.6
1.1.1	All kinds of soil	420	cum	125.95	52899.00	2.6.1 SR
1.2	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 :					2.1
1.2.1	All kinds of soil					2.10.1
1.2.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	5150	metre	225.45	1161068.00	2.10.1.2 SR
1.3	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	950	metre	127.00	120650.00	2.11 SR
1.4	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					2.26
1.4.1	All kinds of soil	420	cum	51.75	21735.00	2.26.1 SR
	Sub-Total				1356352.00	
2	CONCRETE WORK					4
2.1	Providing and laying cement concrete in retaining walls, return 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					4.2
2.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size).	20	cum	5267.75	105355.00	4.2.8 SR
	Sub-Total				105355.00	
3	REINFORCED CEMENT CONCRETE					5
3.1	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					5.9
3.1.1	Foundations, footings, bases of columns, etc. for mass	50	sqm	193.95	9698.00	5.9.1 SR
3.1.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	490	sqm	378.60	185514.00	5.9.2 SR
3.1.3	Suspended floors, roofs, landings, balconies and access	50	sqm	422.30	21115.00	5.9.3 SR
3.1.4	Lintels, beams, plinth beams, girders, bressumers and	10	sqm	342.90	3429.00	5.9.5 SR
3.1.5	Columns, Pillars, Piers, Abutments, Posts and Struts	25	sqm	467.85	11696.00	5.9.6 SR
3.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
3.2.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	15750	Kg	56.60	891450.00	5.22.6 SR

3.3	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement tent as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced 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 : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately)					5.37	
3.3.1	All works upto plinth level	105	cum	6713.60	704928.00	5.37.1	SR
	Sub-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 WORK - EXPOSED ON WALL					18.1	
4.1.1	40 mm dia nominal bore	500	metre	394.15	197075.00	18.10.5	SR
4.1.2	50 mm dia nominal bore	150	metre	472.40	70860.00	18.10.6	SR
4.2	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work					18.12	
4.2.1	50 mm dia nominal bore	600	metre	342.70	205620.00	18.12.6	SR
4.3	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :					18.13	
4.3.1	50 to 80 mm nominal bore	4	each	771.20	3085.00	18.13.2	SR
4.4	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :					18.31	
4.4.1	100 mm diameter					18.31.1	
4.4.1.1	Class I	11	each	3317.55	36493.00	18.31.1.1	SR
4.5	Constructing masonry Chamber 60x60x75 cm inside, in brick 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 stone aggregate 20mm nominal size) , i/c necessary excavation, 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 :					18.33	
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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The authors thank the referees for their constructive comments.

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06/05/2006

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&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, Cauvery 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, Cauvery 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.

[Signature]

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20/2/19

5. 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.

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/STP/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 and subsequently 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.

- 6 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 up before FC/BOG.

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 also 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 and Jubilee Hall etc. by providing RCC hume pipes NP-2 and road gully 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.

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No. 150/780/5971

Dated 12.12.2018

To

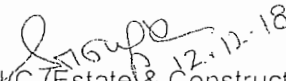
The Executive Engineer (Civil),
CPWD, NDRI Campus (Near State Bank of India),
Karnal-132001

Subject: To submit the detailed cost estimate for 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.

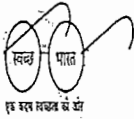
It is therefore, requested to submit the detailed cost estimate for strengthening of existing Cement Concrete pavement/road from North East Corner of CCN to Junction between Cauvery Hostel & MBA/MCA Department, road between Jubilee Hall & Library including arrangement of drainage of storm water at NIT, 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. HC (Estate & Construction) 12.12.18.

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



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 स्टेट 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,

डीन (एस्टेट),
राष्ट्रीय प्रौद्योगिकी 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/MCA 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 प्रावकलन जिसकी लागत रुपये 87,13,400/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूर प्राप्त करने हेतु संलग्न है।

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

भवदीय,

संलग्न : उपरोक्त दो प्रतियों में।

(इंजी. चरणजीत पसरीजा)
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 पत्र सं० 24(8)/A.E.K./2018/284 दिनांक 21.12.2018 के संदर्भ में सूचनार्थ।

कार्यपालक अभियन्ता



Ilnd 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/-

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 Jubilee Hall & Library including arrangement of drainage of storm water at NIT, Kurukshetra.

MAJOR HEAD	MINOR HEAD	DETAIL HEAD
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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. 87,13,400/- i/c contingencies

REPORT

History: This preliminary estimate amounting to Rs. 87,13,400/- 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 cited work has been received from client department vide their office letter No. EQ/750/5971 dated 12.12.2018. Hence this estimate has been framed.

Design & Scope: The following provisions have been made in this estimate: -

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 of mix M-25 with ready mixed concrete from batching plant.
4. Cutting of groove of size 10mm x 50mm in vacuum dewatered concrete.

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 with client department.

Rate: As per DSR - 2016 rates.

Method: Through contract after call of tender.

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

Cost: Rs. 87,13,400/- 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 deemed 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 allocation well in time during the financial years.

Assistant Engineer (P)
Karnal Central Division
CPWD, Karnal

Executive Engineer
Karnal Central Division
CPWD, Karnal

LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

To

डीन (एस्टेट),
राष्ट्रीय प्रौद्योगिकी 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:

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.

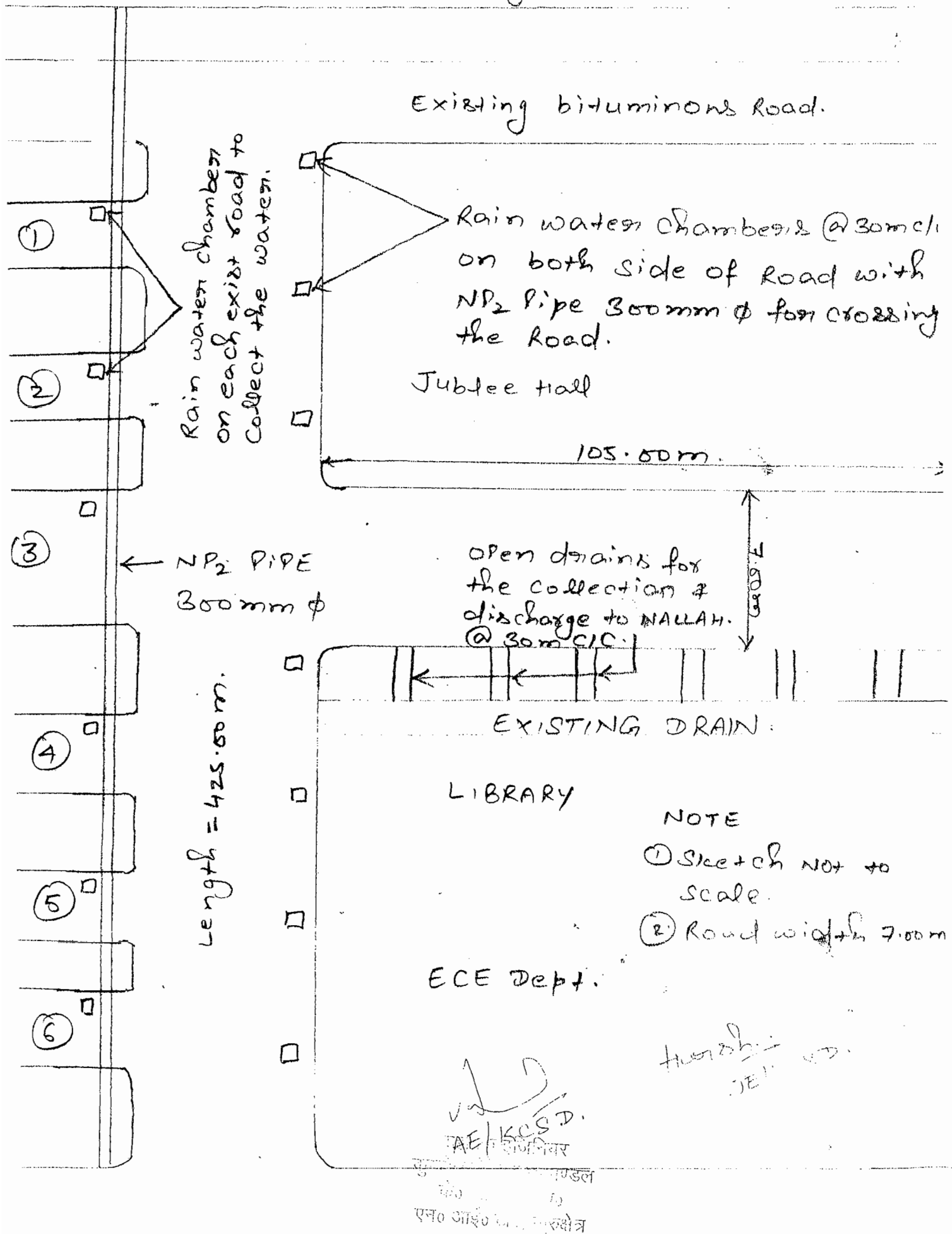
You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,


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

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.				
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				
1.1.1	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	530	metre	225.45	119489.00
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 :				
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 stone aggregate 40 mm nominal size).	46	cum	4209.05	193616.00
3	6.12	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	15.2.1	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.	13550	Per cm depth per cm width per m length	2.20	29810.00
8	16.75	Providing and laying C.C. pavement of mix M-25 with 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 Engineer-in- 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).	900	cum	6912.15	6220935.00

[illegible]



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, 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.

- 9 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
- 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.

discussed in the next meeting of EAC after receiving the architectural drawings from CPWD.

Item No. 25.8 To consider and approve the detailed Cost Estimate for re-carpeting 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 re-carpeting 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 Plan) 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

6515
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No. 104778/5769

Dated 12.10.2018

प्रमुख कार्यकारी अभियंता
जी. जी. सि. इं. कॉम्प्लेक्स
कुरुक्षेत्र - 136119

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

Subject: To submit the detailed cost estimate for re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra. (A/E (Civil) - Hostel Plan)

The competent authority of the Institute has desired for re-carpeting of various roads in the Institutional buildings and Hostel buildings in the Institute.

It is therefore requested to submit the detailed cost estimate for re-carpeting of various roads in the Institutional building and Hostel buildings in the Institute 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]

[Signature]
Prin. In-charge (Estate & Construction)

Copy to

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

11/

DY No. 115
24.11.18



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

चक्रवर्ती चक्र परि. 23(4515)W-III/2018-19/178

दिनांक: 24/11/19

प्रति,

The professor I/C (Estate & Construction),
National Institute of Technology,
Kurukshetra.

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

उपरोक्त कार्य का 1,11,15,900/- रुपये राशि का प्रारम्भिक अनुमान दो प्रतियों में
सलगन 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
कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हेड ऑफ एकाउंट) का भी उल्लेख
करने की कृपा करें।

सलगन: अनुमान (दो प्रतियां)

भवदीय

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

प्रतिलिपि:-

1. मुख्य अभियंता (उ.अ.-1), के.लो.नि.वि., चण्डीगढ़ 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 सहित।
4. कार्यपालक अभियंता (वैद्युत), केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को सूचनार्थ प्रेषित है।

कार्यपालक अभियन्ता (यो.)

Local male entry is required.

24/11/19 -190-

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

Haryana
P & R

Division: KCD

Circle: Chandigarh Central Circle

NAME OF WORK: Re-carpeting of various roads in the Institutional buildings and Hostel buildings at NIT, Kurukshetra.

MAJOR HEAD	MINOR HEAD	DETAIL HEAD
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This preliminary estimate framed by En. G S Pasrija, Executive Engineer, Karnal Central Division and further processed by En. J.K.Goel, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh for Rs. 1,11,15,900/- including contingencies.

REPORT

This preliminary estimate amounting to Rs. 1,11,15,900/- including contingencies has been framed to cover the probable cost of the above mentioned work for amount 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/776/5965 dated 12.12.2018. Hence this estimate has been framed.

Scope

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

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

Specification

CPWD Specification 2009 Vol I & II.

Supply

Shall be arranged by the contractor.

Estimation

Shall be met out of contingencies.

Availability

Available with client department

Rate

As per DSR - 2016 rates.

Mode

Through contract after call of tender

Period

02 Months (after receipt of A/A & E/S)

Cost

Rs. 1,11,15,900/- including contingencies.

Remarks

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.

(Signature)
Assistant Engineer (P)-I
Chandigarh Central Circle
CPWD, Chandigarh

(Signature)
Executive Engineer (P),
Chandigarh Central Circle,
CPWD, Chandigarh

Preliminary Estimate

of Work: Re-carpeting of various roads in the Institutional buildings and Hostel buildings at Kurukshetra.

BSR No.	Description	Qty.	Unit	Rate	Amount
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of carting and shuttering - All work up to pith level (concrete to be laid in kerb channel's along kerb stone to road edge)				
4.1.1	M 24 (1 cement : 2 coarse sand (zone III) : 4 graded stone aggregate 20 mm nominal size).	18.00	cum	5481.00	98658.00
4.1.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade.				
4.1.2.1	Two or more coats on new work	1330.181	sqm	73.40	97642.00
4.1.2.2	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 blower boiler, cleaning and preparing the existing road surface as per specifications:				
4.1.2.2.1	On bituminous surface @ 0.50 Kg / sqm	25040.00	sqm	28.50	713600.00
4.1.3	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled hopper rail mounted aggregate spreader and applying bitumen by a pressure distributor and then screeding key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 10 to 10 tonne capacity to achieve specified values of compaction and surface accuracy.				
4.1.3.1	For 50mm compacted thickness using coarse aggregate of size 50-75 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm	1015.10	sqm	342.00	655026.00
4.1.4	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, primed with bituminous binder and filler transporting the hot mix to work site by tippers, laying with power finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge				
4.1.4.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 0.5% (percentage by weight of total mix) and fine filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 Tph capacity	783.00	cum	7863.60	6152236.00
4.1.4.2	Providing and applying 2.5 mm. thick road marking strips (retro reflective) of specified shade/ colour using hot thermoplastic material by fully semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and burner shoe heater driven by experienced operator on road surface incurring cost of material.				

Sl. No.	DSR No.	Description	Qty.	Unit	Rate	Amount
		sweep, 100%, cleaning the road surface of all dirt, seals, oil grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with trafficable specifications.	1455.00	sqm	38.25	55626.00
16.69		Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete 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 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment) (Prestest C.C. Kerb stone shall be supplied by Engineer-in-charge).	25.00	cum	5012.65	125316.25
16.77		Scarifying the existing continuous road surface to a depth of 50 mm and disposal of scarified material within all lifts and haul upto 1km (by mechanical means).	1915.00	sqm	3.60	6894.00
16.82		Taking out existing kerb stones of all types from footpaths, 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.	5340.00	metre	16.00	85440.00
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-in-charge (length of finished kerb edging shall be measured for payment) (Old kerb stones shall be supplied by the department free of cost)	2175.00	metre	48.50	105587.50
		TOTAL				10029910.00
		Add Cost Index @3.92% on all DSR items	3.92%			392172.00
		TOTAL			(A)	10422082.00
		Add Contingencies on (A) @	3.00%	(Mini 5 Lacs)		600000.00
		Add Admin. Less. on (A) @	1.00%			104220.82
		Add F.P.F. & E.S.I.C. on (A) @	0.85%			89596.00
		Grand Total				11115508.82
		Say Rs. 1,11,15,500/-				

Assistant Engineer (P-III)
Chandigarh Central Circle,
CPWD, Chandigarh

Executive Engineer (P-1)
Chandigarh Central Circle,
CPWD, Chandigarh

Enclosure estimate amounting to Rs. 11,15,500/- (Rupees One crore eleven lakhs fifteen thousand five hundred and only) is hereby submitted for record of A/A & C/S from competent authority.

Superintending Engineer,
Chandigarh Central Circle
CPWD, Chandigarh

27-1-19 7-2-19

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.
- 9 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
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.

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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. *EO/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.

12.12.18
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

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

संख्या: च.के.परि./23(4515)W-III/2018-19

दिनांक: 24/11/19

सेवा में,

✓ The professor I/C (Estate & Construction),
National Institute of Technology,
Kurukshetra.

विषय:

Widening of various roads in the Institute at NIT, Kurukshetra.

- i) Road from Apollo Canteen to security check 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 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.

उपरोक्त कार्य का 2,22,99,500/- रुपये राशि का प्रारम्भिक अनुमान दो प्रतियों संलग्न किया जाता है। इस कार्य के अनुमान हेतु आपका आवेदन पत्र संख्या EO/779/5970 दिनांक 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 कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हेड ऑफ एकाउंट) का भी उल्लेख करने की कृपा करें।

संलग्न: अनुमान (दो प्रतियाँ)

भवदीय

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

प्रतिलिपि:-

1. मुख्य अभियंता (उ.अं-1), के.लो.नि.वि., चण्डीगढ़ 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 सहित
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**

State: Haryana

Division: KCD

Branch: B & R

Circle: Chandigarh Central Circle

NAME OF WORK:

Widening of various roads in the Institute at NIT, Kurukshetra.

- 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.

MAJOR HEAD	MINOR HEAD	DETAIL HEAD
This preliminary estimate framed by Er. C.S. Panjra, Executive Engineer, Kanpur Central Division and further processed by Er. J.K. Gaur, Executive Engineer (P), Chandigarh Central Circle, CPWD Chandigarh for Rs. 2,22,99,500/- in contingencies.		

MAJOR REPORT

History:

This preliminary estimate amounting to Rs. 2,22,99,500/- in contingencies has been framed to cover the probable cost of the above mentioned work for account of A.A. & C.S. by the competent authority. The requisition for the above cited work has been received from client department vide their office letter No. EO/77B/5073 dated 12.12.2016. Hence this estimate has been framed.

Design & Scope:

The following provisions have been made in this estimate:-

1. Widening of existing metal roads 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, GGS 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 FDC 150, 100, 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 toppings of brick low wall/bodge 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 low wall, culverts and foot paths edge walk.

Specification:

CPWD Specification 2009 Vol. I & II

E.S.P.:

Shall be arranged by the contractor.

Est. Establishment:

Shall be met out of contingencies.

Land:

Available with client department.

Rate:

As per DMR - 2016 rates.

Method:

Through contract after call of tender.

Time:

04 Months (After receipt of A.A. & C.S.)

Cost:

Rs. 2,22,99,500/- in contingencies

Notes:

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,
CPWD, Chandigarh

Executive Engineer (P),
Chandigarh Central Circle
CPWD, Chandigarh

Preliminary Estimate						
Name of Work:-	Widening of various roads in the Institute at NIT, Kurukshetra. 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.					
Sr. No.	DSR No.	Description	Qty.	Unit	Rate	Amount
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 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.				
1.1	2.8.1	All kinds of soil.	2554.00	cum	166.40	424986.00
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 :				
2.1	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).	583.00	cum	4209.05	2453876.00
3	4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.				
3.1	4.4.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	161.00	cum	5924.65	953869.00
4	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
4.1	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	87.00	cum	6215.35	540735.00
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
5.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	292.00	sqm	193.95	56633.00
5.2	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	192.00	sqm	378.60	72691.00
5.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	82.00	sqm	422.30	34629.00
6	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6.1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	12180.00	kg	56.60	689388.00
7	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
7.1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	436.00	cum	4751.65	2071719.00

Sl. No.	DSR No.	Description	Qty.	Unit	Rate	Amount
8	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 structural steel etc. as required.				
9	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1435.00	kg	85.95	123338.00
10	13.4	12 mm cement plaster of mix :				
11	13.4.2	1:6 (1 cement: 6 coarse sand)	25.00	sqm	168.25	4206.00
12	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
13	13.5.2	1:6 (1 cement: 6 coarse sand)	20.00	sqm	194.60	3892.00
14	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
15	13.61.1	Two or more coats on new work	1092.00	sqm	78.40	85613.00
16	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	16.00	cum	1454.55	23273.00
17	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
18	15.7.4	In cement mortar	4.00	cum	842.75	3371.00
19	15.60.1	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.	49.00	cum	120.55	5907.00
20	15.60.2	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.	1975	cum	115.35	227816.00
21	16.1	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.	5629.00	sqm	90.10	507173.00
22	16.8	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :				
23	16.8.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1600.00	metre	36.20	57920.00
24	16.30	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 :				
25	16.30.1	On W.B.M. @ 0.75 Kg l sqm	4899.00	sqm	36.40	178324.00
26	16.30.2	On bituminous surface @ 0.50 Kg l sqm	11908.00	sqm	27.50	327470.00

Sr. No.	LSR No.	Description	Qty.	Unit	Rate	Amount
18	18.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by lippers, laid over a previously prepared surface with power finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density complete as per specifications and directions of Engineer-in-Charge				
	18.55.1	50 to 110 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity	246.30	cum	5705.50	1394453.00
	18.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by lippers, laying with power finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge				
	18.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and fine filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity	477.50	cum	7082.35	3375646.00
	18.62	Providing and applying 2.5 mm thick road working slaps (thermo-reflective) of specified shade/ colour using hot thermoplastic material by fully semi automatic thermoplastic paint applicator machine fitted with profiler, stone, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	553.00	sqm	281.25	155464.00
	18.63	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in addition 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 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment) (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	57.50	cut	1612.14	41104.00
	18.67	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within 100 m and load upto 1km (by mechanical means)	1.69	sqm	3.00	2448.00

Sr. No.	BSR No.	Description	Qty.	Unit	Rate	Amount
16.78	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical in a plant at DMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer in Charge.				
16.78.1	16.78.1	Will material conforming to Grade 1 size (for 75 mm to 0.075 mm) having CBR Value-30	345.00	cum	2009.70	1765797.00
16.79	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 52 mm to 0.075 mm) to well mix material (WMM), specifications including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver/finisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 3 to 10 tons capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	345.00	cum	2132.25	1801751.00
16.81	16.81	Providing and laying factory made chamfered edge Cement Concrete pave blocks in foot path, park & lawns, driveway or light & traffic parking etc. of required strength, thickness & color shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer-in-Charge.				
16.81.2	16.81.2	80mm thick Cement concrete paver block of M30 grade with approved colour design & pattern	3500.00	sqm	036.95	2035325.00
16.93	16.93	Providing and placing in position 100 mm thick factory made machine finished & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm dia in both ways, neat cement pointing on finished surface, properly encased on all edges with 10 mm thick, 100 mm wide MS sheet duly painted over priming coat, reinforcement to be welded at edges with MS steel and providing 2 Nos. 12 mm dia bar for hooks etc. to cost of cage, all leads & lift handling at site etc. all complete as per direction of Engineer-in-Charge.	10.00	sqm	1907.65	15781.00

Sr. No.	DSR No.	Description	Qty.	Unit	Rate	Amount
27	15.6	Providing and laying non pressure RPS class (light duty) R.C.C. pipes with collars joined with stiff mixture of cement mortar in the proportion of 1:2:11 cement: 2 fine sand) including testing of joints etc. complete				
27/1	15.6.5	450 mm dia R.C.C. pipe	56.20	metre	720.00	40578.00
28	15.6	Credit for old steel reinforcement bars received from dismantling for RCC	1200.00	kg	20.90	-25080.00
		Total				20454826.00
		Add Cost Index @ 2.32% on all DSR items except M & E items Rs. 2,04,09,500/-	3.52%			803204.00
		Total			(4)	21268024.00
		Add Contingencies on (A) @	1.00%			538041.00
		Add Labour Cost on (A) @	1.00%			712582.00
		Add EPF & ESIC on (A) @	0.850%			180778.00
		Grand Total				22299523.00
		Say Rs. 2,22,99,500/-				

Assistant Engineer (P-Ill)
Chandigarh Central Circle,
CPWD, Chandigarh

Executive Engineer (P-I)
Chandigarh Central Circle
CPWD, Chandigarh

Preliminary estimate amounting to Rs. 2,22,99,500/- (Rupees Two crore twenty two lakh ninety nine thousand five hundred only) is hereby submitted for record of A.A & F/S from competent authority

Supervising Engineer,
Chandigarh Central Circle,
CPWD, Chandigarh

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No. E-779/5970

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

EAC-29.1.19 7-2-19

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.
9. 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
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.



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

DY No. 1315
Dt: 01/10/18

PESS/2018 / 485
Dated : 29/09/2018

(Through Proper Channel) *11/10/18*

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 ~~even~~ 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.

[Signature]
S.A.S. Officer

A.E. (Civil)

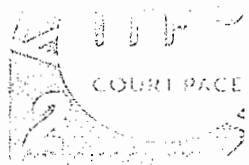
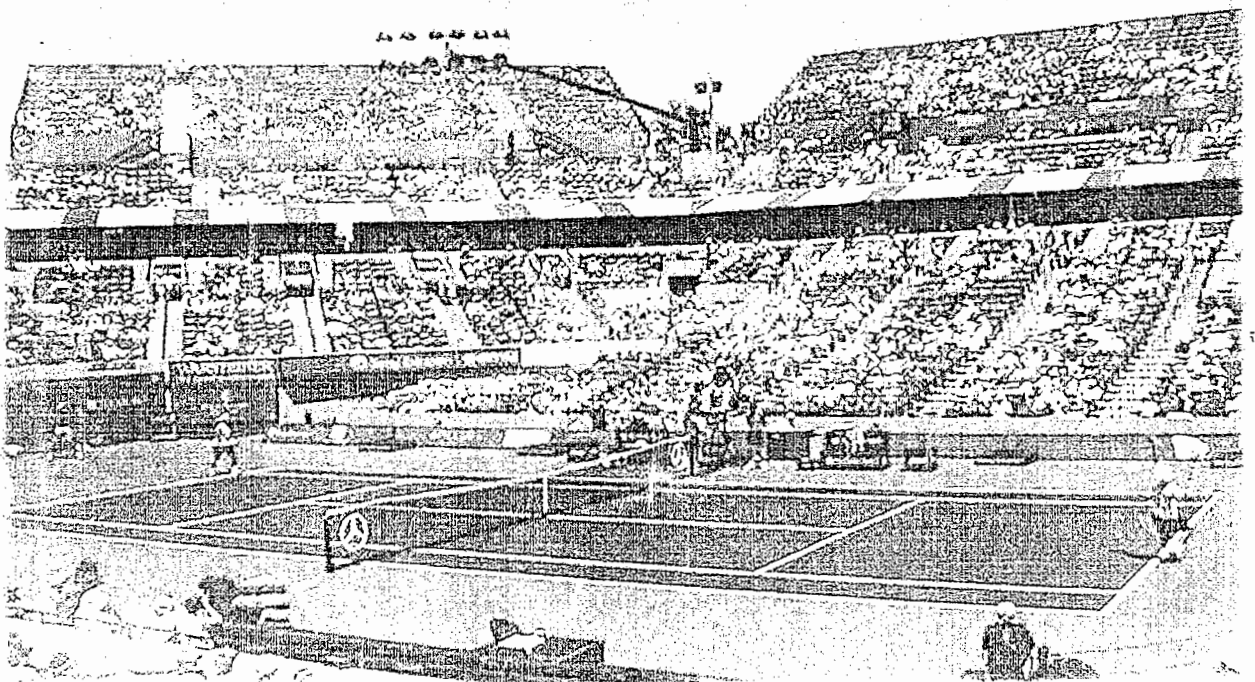
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[Signature]
11/10/18

CR1



INTERNATIONAL TENNIS
FEDERATION
(ITF)



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 Disease 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.

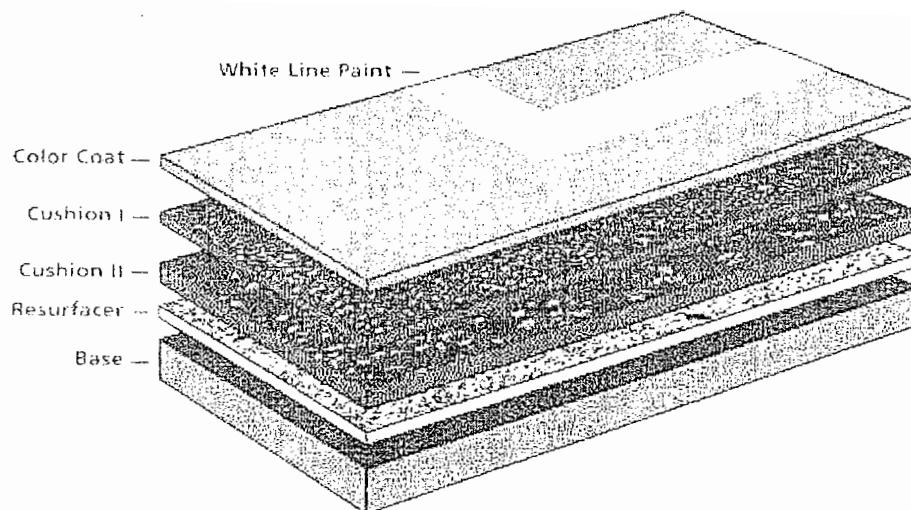
A persistently stated opinion is that an asphalt court is "easier on the feet."

- 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 rating required, Acrylic flooring product approved by ITF should only be provided

4.8

TENNIS COURT (OUTDOOR ACRYLIC)

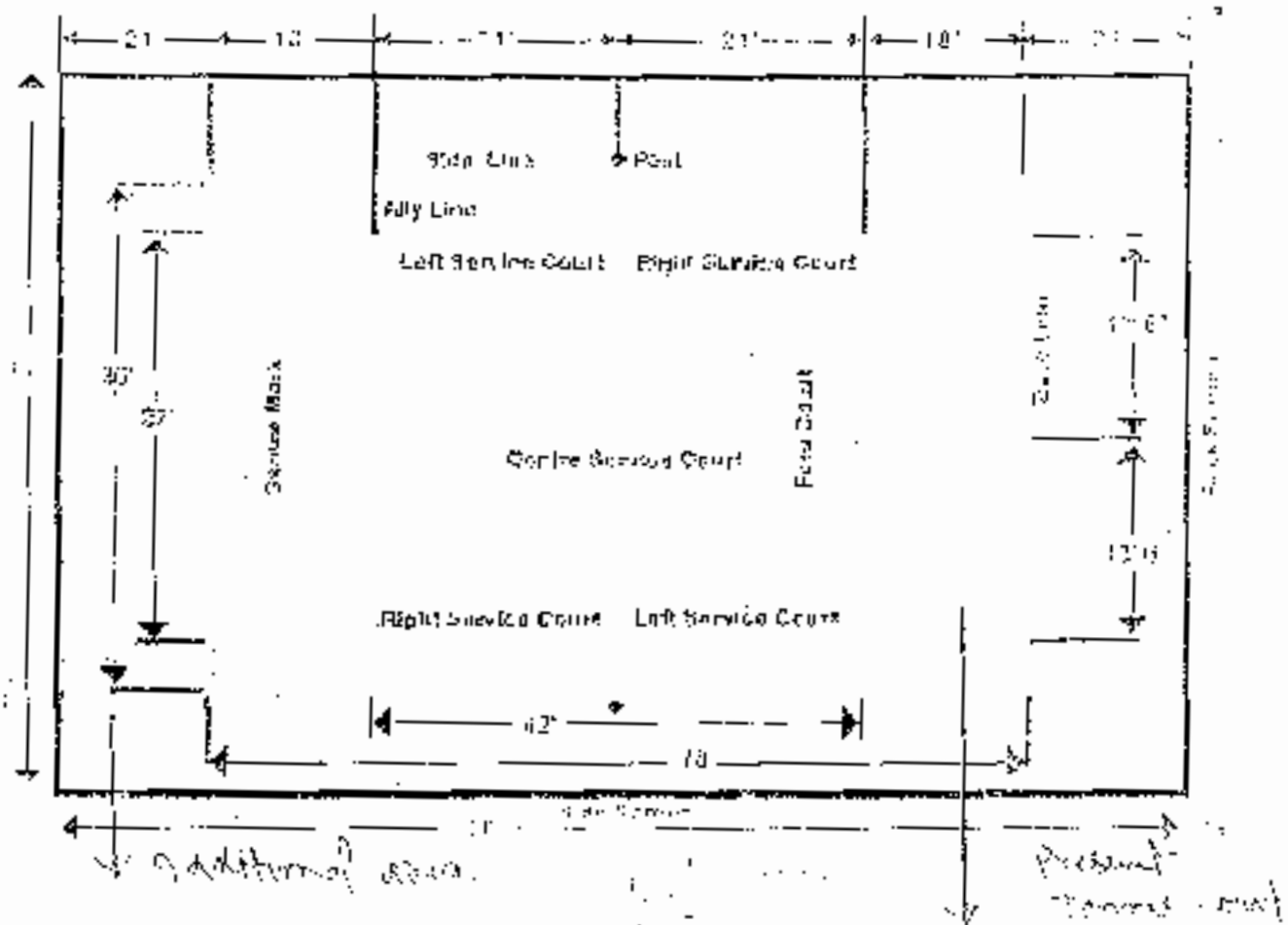
4. **LAWN TENNIS: (ITF – International Tennis Federation)**

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 side-lines. 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.



4.2 Specification of Surfaces

- Tennis is played on a variety of surfaces and each surface has its own characteristics which affect the playing style of the game.
- The International Tennis Federation (ITF) classifies surfaces into one of five playing categories.



- A surface product included on the list of ITF Classified Surfaces is classified purely on the basis of its Court Performance.
- ITF Classification does not require any form of ITF approval or endorsement.
- ITF has classified the performance of the court in five categories but does not place any restriction on the use of the surface.

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

soils are key elements in asphalt court construction, because whatever happens up to the underlying soils is transferred up through the asphalt.

An informed decision as to asphalt or concrete should be made in conjunction with consultation of a soils engineer and by comparative pricing of both types of courts.

4.6.4 SYNTHETIC ACRYLIC FLOOR SURFACES

Synthetic Acrylic floor surface comes in the category of hard court. In India asphalt base will be preferred.

- It is extensively used for outdoor sports like Tennis, Basketball, Volleyball, Badminton, Handball etc.
- Synthetic acrylic flooring is preferred to be installed on a bitumen base but can be used on concrete base also.
- Acrylic surface can be divided into 3 Layers to 6 Layers systems as Color coat and Cushion courts.
- 3 Layer Color Coat Systems: mainly designed for installations where friction is important. In a three layers surface, the ball bounce will be the best, both in respect of storage speed and in terms of bounce effects. It has an average life span of 7-8 years.



4.6.5 (CUSHION+ CUSHION PLUS) SYSTEM: In more than 3 layer system additional layer is made of cushion consisting of rubber granules. Any 2 or 3 layers are available Plus.

S. No.	NAME OF MANUFACTURER	BRAND
1	California Sports Surfaces 10111 Humboldt, Oakland, 94618 JVC Tel: 415-761-0980 E-mail: calsportsurf@comcast.net	Rebounder
2	Bolaji Sports Co. N 243 2nd Street, Calicut, P.O. Box 12012	Rebounder
3	Koon Sports 651 Humboldt Tel: 415-761-0980 JVC Tel: 415-761-0980 E-mail: koon@comcast.net	Rebounder
4	Sportblaster Sports Surfaces P.O. Box 2227, San Jose, 95128 Tel: 415-291-1311 E-mail: sportblaster@comcast.net	Sport Blaster
5	Zona Industrial C-1, 1st Floor 10111 Humboldt Tel: 415-761-0980 JVC Tel: 415-761-0980 E-mail: zona@comcast.net	Rebounder

**Cost estimate for Construction of Lawn Tennis Court including widening and renovation of
existing the Lawn Tennis Court at NIT, Kurukshetra.**

Specifications						
Sr No.	Description	Qty.	Unit	Rate	Amount	DSR No.
1	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 dressing 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).	141	Cum	4209.05	593476.05	4.1.10
2.2	Providing and laying cement concrete in retaining walls, return 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	Cum	4751.65	194817.65	6.1.2

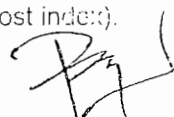
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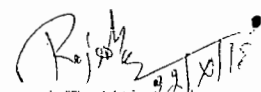
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	Steel Work					10
	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					10.25
5.1.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	1740	Kg.	65.80	114492.00	10.25.1
6	Finishing					13
6.1	15 mm cement plaster on the rough side of single or half brick wall of mix :					13.2
6.1.1	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	93122.32	
				Total Rs.	2468691.77	
				Add Labour cess @ 1% on Rs. 2468691.77	24686.92	
				Grand Total	2493378.69	
				Say Rs.	2493400.00	

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


A.E. (Civil)


J.E. (Civil)-II


J.E. (Civil)-I

Prof. I/C (E & C)

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The estimated amount 249340/- has been prepared by estate section as per our requirement. The same may please be allowed by the competent authority to allocate the fund from appropriate chargeable head. So that the works may be executed by estate section as per instructions.

Shahabuddin
24/10/18

Prof. I/C P. Edu.
24/10/18

Dean, S.W. P.
24/10/18

Prof. I/C ESC
25.10.18

Dean (P&D) Shahabuddin
29/10/18

Registrar I/C

DURD/EO/114
29/10/2018

Registrar Office
Dairy No. 914
Dt. 29/10/18

Funds position re.

Shahabuddin
29/10/18

Prof. I/C (Acc)

Funds may be allowed from Sports (SAF) or Institute grant. Also mention the position of fund.

Shahabuddin
09/11/18

DR (Acc)

Shahabuddin
09/11/18

Asst. Secy

ACF

10/11/18

Discussed with R. The proposal at A may be considered and a sum of Rs. 249340/- may be allocated out of Grant of Building Renovation.

11/11/18

DR (Accounts) Shahabuddin
12/11/18

Prof. I/C Estate
12.11.18

Acc I/C
-221-

SA/TE/C

Subject: - Proposal regarding construction of additional area in the
Tennis Court and renovation and repairs the 1st and 2nd floor

With the reference of above case subject, in this regard, the Department of Education has one remedial action taken which is not a proper outcome because of International T.T. Rule. The only difficulty they are facing and they are not regular classes of B.Tech 1st Year students in Physical Education. They are not regular instructing with standard education.

As per TIFR the diagram and dimension has been attached with your letter.
Your kind information and for the necessary action, please.

Faculty LC (Law, Tennis)

Faculty LC (Lawn Tennis)

Prof. L.C. (Practice Education)

Prof. i.C. (Pedagogical Education)

Vol. 10 (1-3 C)

No. 40 of 1935

Keeping in view of the above, the matter was discussed with the L.A.S. when regarding details of Law Firm's Court fee cost estimate may be prepared After detailed discussion L.A.S. office sent a detailed requirement was letter No. 15/18/2715/056 dated 29.08.2012.

Accordingly, the detailed cost estimate for the above work is cited in the Subject has been prepared for an amount of Rs. 24,03,100/- (Rupees 24 Crores and 3 Lakhs and 100 Rupees only).

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Q. 12. (2014)

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$$\left[\frac{1}{2} \left(\frac{1}{\rho} \frac{\partial \rho}{\partial t} + \frac{1}{\rho} \frac{\partial \rho}{\partial x} \frac{dx}{dt} \right) + \frac{1}{2} \left(\frac{1}{\rho} \frac{\partial \rho}{\partial t} + \frac{1}{\rho} \frac{\partial \rho}{\partial x} \frac{dx}{dt} \right) \right] = \frac{1}{2} \left(\frac{1}{\rho} \frac{\partial \rho}{\partial t} + \frac{1}{\rho} \frac{\partial \rho}{\partial x} \frac{dx}{dt} \right) \quad (10)$$

1. *Journal of Management Studies*, 1990, 27, 1, 1-14.

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.

- 9 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.
- 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 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.

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: Complaint regarding leakage of water through false ceiling of NCC office at OVI

NCC office was situated in old bank building at OVI. From the beginning, rain water leakages were coming through false ceiling. The U. and AE had checked it and assured us to get it repaired very soon through the contractor who had done false ceiling.

The problem has not been rectified. All electronic and other NCC items are damaged due to water leakage in the office floor.

Please do the needful repair to avoid inconvenience and further damage.

Accepted
V.K. Bhatnagar
NCC Officer
Mobile: 9416433376

Prof. in Charge (Estate)

AE(C) (JEC) visited the office and 12.11.17
Successful
14/8/17

Copy to:

Dean (Estate)

- As NCC office opens after 12.00 pm, please call on my number to make the keys available for inspection and repair purposes.

In view of the above, visited the site/location of NCC with the officials of CMOP and observed that wooden is leaking near the junction of beamed columns. This work requires to be carried through spreading of water, joining, treatment. Further, it was advised to (Don't put) and put the 100% waterproofing package. It was also advised that the matter be put up in the C.M. meeting schedule to be held on 14.08.2017.

54 - 294 - 25/10/17

14/8/17

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.

- | | |
|--|-------------------|
| 1. Prof. D.K. Soni, Dean (P&D) | Chairman |
| 2. 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 |
| 7. Sh. S.N. Kaushik, A.E. (Civil) | Member & Convener |

Prof. K.K. Singh, Civil Engg. Deptt. & Dr. Chalak Hanuman Devidas, Faculty I/C (S&C) could not attend the meeting.

Following issues were discussed and resolved as under:

1. 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.

2. 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.

3. 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.

4. 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 of Estate Section may visit the site & explore further for any other possibility of creating emergencies.

Handwritten signatures and marks:
JKN 2
[Signature]
[Signature]
[Signature]
-225-

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No./CC/3506/781/6760

Dated 05.12.2017
06

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(ii))

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/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. SS to Registrar for kind information of the Registrar
5. SS to Director for kind information of the Hon'ble Director

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

Reminder-I

No. CC/3506/71/587

Dated 01.02.2018

To

The Executive Engineer (Civil),
CPWD NDRF 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(1))

Reference: No. CC/3506/781/6760 dated 05/06/2017

In continuation to letter under reference 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, 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:

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



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

Dy. No. 1754		Date 09.12.18	
R	DPD	Ch	CoE
E	IM	Ch	Ma
Hu	CS	PS	EDS
PE	CON	PRO	LMO
GA	A	DS	PIS

कार्यालय कार्यपालक अभियंता
केन्द्रीय लोक निर्माण विभाग,
एन.डी.आर.आई कैम्पस, नजदीक स्टेट 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 : cpwdkarnal@gmail.com

DYN No. 239
DE 9/12/18

संख्या:- 20(142)/यो.शा./क.के.मं/2018/495

दिनांक 6/12/18

सेवा में,

निदेशक,
राष्ट्रीय प्रौद्योगिकी 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 रुपये 21,96,000/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतु संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाया गया है। अतः आपसे अनुरोध है कि कार्य की मंजूरी भेजते समय "लेखा शीर्ष" जिसके अंतर्गत 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
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 पत्र सं० 24(8)/स.ई.कु./2018/40 दिनांक 01.02.2018 के संदर्भ में सूचनार्थ।

कार्यपालक अभियन्ता

9/12/18
-228-
9/12

Ist 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:- 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

Branch: B & R

NAME OF WORK: Water proofing treatment of the Open Air Theatre at NIT Kurukshetra.

Division: KCD

Sub-Division: KCSD

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 coats of polymer modified cementations water proofing as per item no. 81 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.

Mukesh Jain
Assistant Engineer (P)
Karnal Central Division
CPWD, Karnal

Mukesh Jain
Executive Engineer
Karnal Central Division
CPWD, Karnal

Appendix-50
(Reference-Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS
(To be issued to the client department)

To

निदेशक,
राष्ट्रीय प्रौद्योगिकी संस्थान,
कुरुक्षेत्र।

Sub :- Execution of Deposit works.

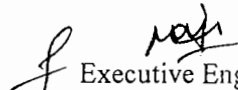
Water proofing treatment of the Open Air Theatre at NIT Kurukshetra.

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,

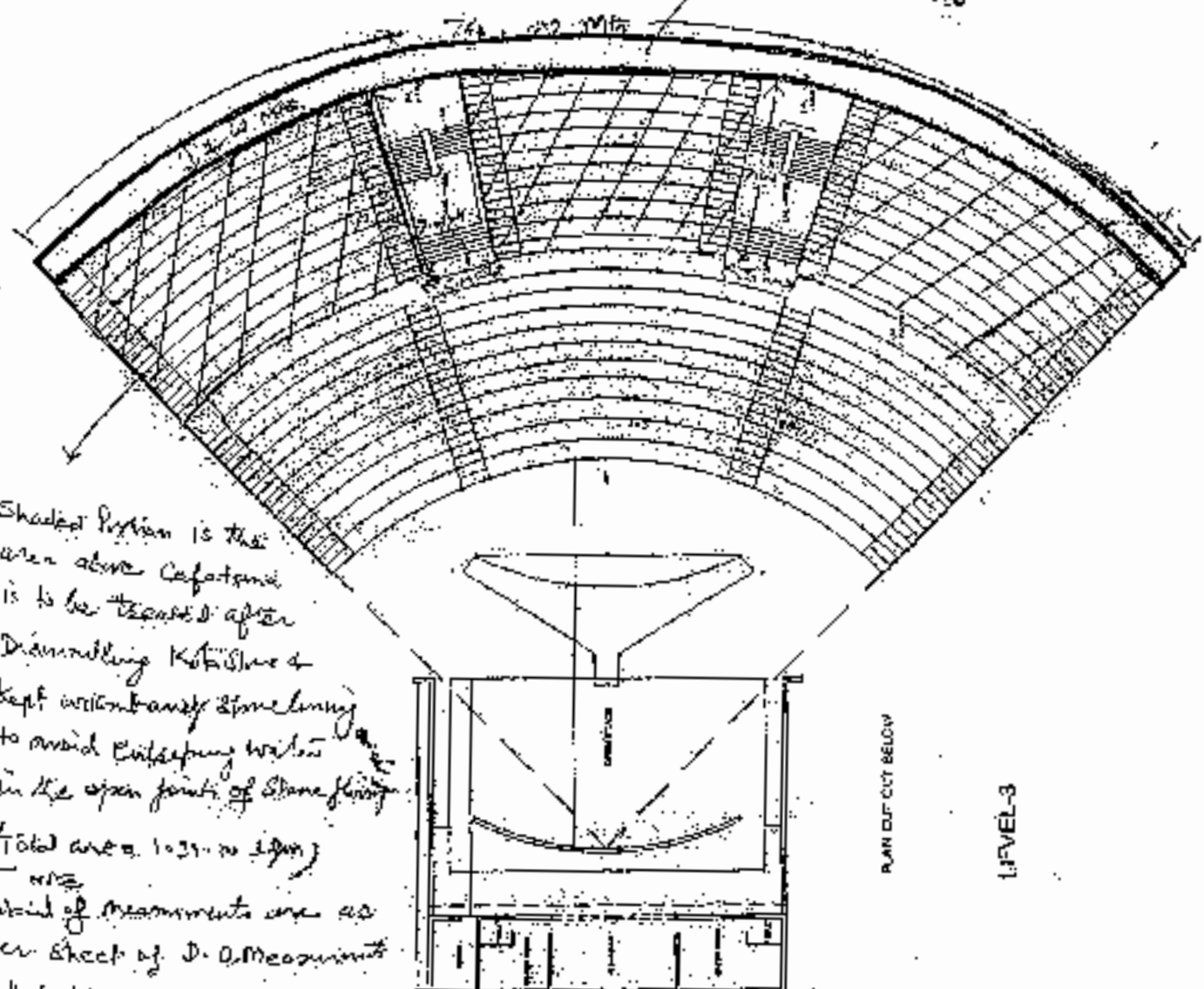

Executive Engineer,
Karnal Central Division,
CPWD, NDRI Campus,
KARNAL-132001 (Hry.)

Original Estimate

Name of Work:- Water proofing treatment of the Open Air Theatre at NIT Kurukshetra.

SL No.	DSR No.	Description	Qty	Unit	Rate	Amount
1	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	150	kg	67.60	10140.00
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 horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	37.2	sqm	550.40	20475.00
3	13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	1031.1	sqm	285.30	294173.00
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	128935.00
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	26412.00
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.	70.75	cum	120.55	8529.00
7	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as 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 and approved by Engineer-in-charge over the RCC slab 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.				

Balcony area (7.7 m x 2.0 m)
 Surface treatment as per the avg
 average high water level and m/s
 at Khanna



Shaded portion is the
 area above Cafeteria
 is to be treated after
 Dismantling Kotsi &
 kept with temporary stone lining
 to avoid eroding water
 in the open joints of stone lining
 (Total area is 1031 sqm)
 (Detail of measurements are as
 per sheet of D. A. Measurements
 attached)

Plan showing open air treated stepped portion to be treated with
 water proofing treatment

Junior Engineer
 NIT
 Khar

Assistant Engineer
 K.E.C
 NIT
 Khar

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:

1. 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, aluminium 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

3. 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 dated 31.07.2018 - regarding water proofing treatment of changing room in Swimming Pool. The matter was discussed in the EAC meeting and it was resolved and recommended that this item may be dropped.

4. To discuss the cost estimate for providing & fixing of fiber shed for the bicycle stand & path ways in Hostel No.-10 (Visvesvaraya Bhawan) & 600 seaters Girls hostel (Kalpna Chawala Bhawan) at NIT, Kurukshetra

The cost estimates for providing & fixing of fiber shed for the bicycle stand & path ways in Hostel No.-10 (Visvesvaraya Bhawan) was received for an amount of Rs. 66,25,300/- from Executive Engineer (Civil), CPWD vide letter No. 20(142)PS/KCD/2018/493 dated 6.2.2018 & cost estimates for construction pathways in 600 seaters Girls hostel (Kalpna Chawala Bhawan) at NIT Kurukshetra was received for an amount of Rs. 31,69,300/- from Executive Engineer (Civil), CPWD vide letter No. 20(142)PS/KCD/2018/494 dated 6.2.2018. Both the above estimates were discussed in the EAC meeting.

[Handwritten signatures and dates]
 28.9.18

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 re-examined 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.

meeting. Therefore, the B&WC approved the revised cost estimate for Rs. 51,79,500/-

Item 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 labs in Electrical Engg. Department at NIT Kurukshetra

Members observed that the matter has not been recommended by the Estate Affairs Committee. Therefore, it was resolved that the same be referred to EAC for its decision on the matter before bringing it as an agenda item 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 B&WC deliberated on the matter where Professor Incharge (EM) apprised that the existing audio systems in the Senate and Jubilee Halls are not functioning properly and have outlived their utility. These require periodic repair and maintenance and despite that they have become unreliable. Therefore, audio systems need to be replaced/upgraded. Further, the Board Room of Golden Jubilee Administrative Building does not have any audio system which creates difficulties in the conduct of official meetings.

After due deliberations on the matter, the B&WC approved the revised cost estimate amounting to Rs. 2,00,11,060/- for providing audio system in the Board Room of Golden Jubilee Administrative Building and replacement/upgradation of audio systems installed in Senate Hall and Jubilee Hall of the Institute.

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 Kurukshetra

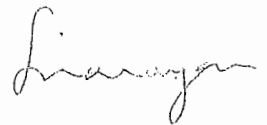
The B&WC deliberated on the matter where it was pointed out by SE (A), CPWD that construction of peripheral road would increase the covered area of the institute, whereas NIT Kurukshetra needs to meet EIA (Environmental Impact Assessment) requirement of MOEF (Ministry of Environment and Forests) as it

- 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 matter.

Encl: Agenda Item



(Shyam Narayan)
Registrar

- ✓ 1. Dean/(Estate)
- 2. Deputy Registrar (GA & L)
- 3. Deputy Registrar (Accounts)

B.L. pd.
Surya
14/11/14

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:

"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 nps. 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 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 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-1/3797/6037 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.....

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 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 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.

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,

[Signature]
Prof. I/C (E&C)
05-03-19

Registrar

[Signature]
05/03/19

Director

[Signature]
05/03/19

[Signature]

[Signature]
05/03/19

Prof. I/C (E&C)

[Signature]
06/03/19

[Signature]
06/03/19
[Signature]
06/03/19

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CC/173/7455

Dated: 17/12/2014

To

Executive Engineer (Elect.),
Central Electrical Division,
CPWD, 22-A, Indira Colony,
Karnal

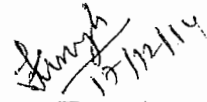
Subject:-

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. CC/353726/1/20

Dated 23/03/2015

To

Superintending Engineer (Elect.),
Chandigarh, Central Circle-I, CPWD,
Kendriya 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 Senate Hall at NIT, Kurukshetra.

You have already submitted the above said estimates vide letter No. 24/300/CHC/2013-4/1142 dated 08.09.2014 with the provision of audio system lighting & surveillance system, but we need audio system without upgradation of Lighting and surveillance system. You are requested to add two nos projector for Jubilee Hall. This is for your information and further necessary action please.

Prof. LC (EM)

Copy to:

1. DSO, Objectives and Information to the Hon'ble Director
2. PS to Registrar in kind information to the Registrar
3. Dean P&ID for copy information, please
4. Dean (State) for information, please
5. Executive Engineer (Elect.), Kendriya Central Electrical Division (CPWD),
75-A, Lohia Colony, Karnal
6. Prof. LC (E&C)
7. Assistant Engineer (Elect.)
8. J.E. (Elect.)

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No. CC/3527/45 / 1187

Dated 24.03.2015

To

Superintending Engineer (Elect.),
Chandigarh, Central Electrical, CPWD,
Kendriya Sadan, Sector 2-A,
Chandigarh

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, Kurukshetra.

Reference this office letter No. CC/3527/26/1126 dated 24.03.2015 in which you are requested to re-submit the above said estimate without up-gradation of lighting and surveillance system. You are also advised to add two nos. projector in Jubilee Hall. This is for your information and further necessary action please.

(Signature)
Prof. V.C. (EM)

Copy to

1. PS to Director for kind information of the Hon'ble Director.
2. PS to Registrar for kind information of the Registrar.
3. Dean (P&D) for kind information, please.
4. Dean (estate) for information, please.
5. Executive Engineer (Elect.), Karnal Central Electrical Division, CPWD
22-A, Indira Colony, Karnal.
6. Prof. P.C. (E&C)
7. Assistant Engineer (Civil)
8. I.E. (Elect.)

Reminder-II

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No./O-3527/2015/131

Dated: 11.01.2016

To

The Superintending Engineer (Elect.),
CPWD Chandigarh Central Command,
Bhadrha 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 Senate Hall at NIT, Kurukshetra.

Reference: - This office letter no. O/3527/2015/1123 dated 24.03.2015 & O/3527/65-1787 dated 21.04.2015

In continuation to above said letters under reference in which you are requested to re-submit the above said estimate without up gradation of lighting and surveillance system. You are also advised to visit two new project for Jubilee Hall.

This is for your information and further necessary action, please.

Prof. I/C (EM)

Copy to:

1. SS to Director for submission of the draft's Budget, NITK.
2. Dean (P&D) for information please
3. Dean (C&I) for information please
4. Prof. Dr. J. & C
5. Asst. Secy
6. Asst. Secy
7. Asst. Secy, Engineer (Elect.), CPWD Kurukshetra Central Planning Division, 22 A, Ind 70 Colony, Karnal

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

NY/EC/3327/2015/ATK

Date: 16.05.2015

To:

The Superintending Engineer (Electrical)
Central Board of Secondary Education,
New Delhi-110002, India.

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, Kurukshetra

Reference: This office letter no. NY/3327/2015 dated 24.03.2015, NY/3327/2015 dated 21.05.2015 & NY/3327/2015 dated 11.01.2016.

In continuation to the said letters, the documents in which you are requested to submit the above work is made without upgradation of lighting and audio system. You are also advised to add any new proposal for the same.

Your prompt reply is requested to submit the above work estimate as early as possible, so that the early action may be taken.

There is no further action and further necessary action please.

(Signature)

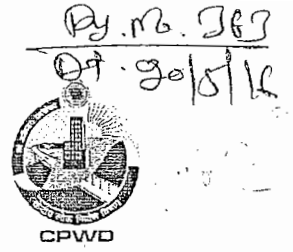
Dear (Sir)

Copy to:

1. SS & Engineer to the Government of the District - BKK
2. Dear (Sd) for information please
3. Prof. Dr. (Sd)
4. Prof. Dr. (Sd)
5. Prof. Dr. (Sd)
6. Prof. Dr. (Sd)
7. Executive Engineer (Electrical) Kurukshetra District, Government of India, New Delhi-110002



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



कार्यालय:

अधीक्षण अभियन्ता (वै०)
चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल,
के०लो०नि०वि०, सेक्टर-९(ए), चण्डीगढ़-१६००१७

Office of the:

Superintending Engineer (E),
Chandigarh Central Elect. Circle,
CPWD, Sector-9(A), Chandigarh-160 017
Email:- seeceec.chd.cpwd@nic.in

सं०.२३(१३०)/च०कै०वै०परि०/२०१६-१७/१२३

दिनांक -२०/५/१६

To

✓ The DEAN
National Institute of Technology,
Kurukshetra (Haryana).

P/15(EM)

AC(E)

hunger 21.05.2016

Chaur 23.05.16

to put in EAC as discussed
with Dean (Estimate) & profile
26/5/16

Sub: 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 at NIT Kurukshetra – amounting to Rs.12,63,360/-.

Profile/EM

23.5.16

Ref: Your office letter No.CC/3527/274/4516 dated 16.05.2016.

Dean (Estimate)

23.05.16

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.

AC(E)

The copies of the preliminary estimates duly approved may be sent to this office for further necessary action.

Encl: As stated.

अधीक्षण अभियन्ता (वै०)
चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल
के.लो.नि.वि., चण्डीगढ़।

S.A. 31/5/16
30/5/16

Copy to:

1. The Executive Engineer (E), Karnal Central Electrical Division, CPWD, Karnal with the copies of revised preliminary estimates.

अधीक्षण अभियन्ता (वै०)

GOVT. OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana
Branch: 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.
- l) 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

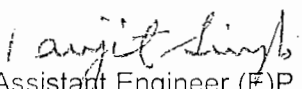
- a) 5000 ANSI lumes UL/EN Listed projector with 3LCD with motorized lift.
- b) Wall Mounted, motorised projection Screen, 150" Diagonal.

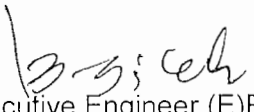
Method: Through contract by call of tenders.

Rates: Market Rate

Time: 6 Months

Cost: Rs.77,54,565/- including contingencies


Assistant Engineer (E)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.

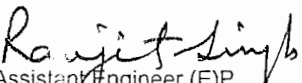
PRELIMINARY ESTIMATE

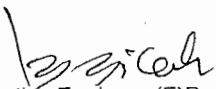
N/W: Providing Audio System in Jubilee Hall at NIT Kurukshetra.

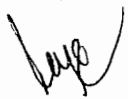
S.No.	Description of Item	Qty.	Rate	Unit	Amount
	SUB-HEAD-I - AUDIO SYSTEM				
1	Supplying, Installation, Testing and Commissioning of Compact Line array element having 2x 8"LF, 4 x HF/MFdrivers(min1") with Frequency Range (-10 dB): 55 Hz – 20 kHz; Frequency Response(+/-3 dB):67Hz-19kHz, Power Handling 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
11	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 condenser 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 grommets, testing etc. as required.	1 Job	200000.00	Job	200000.00
Total SH-I					6857500.00
SUB-HEAD-II - VISUAL SYSTEM					
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).	1 No	370500.00	Each	370500.00
2	SITC of motorised lift for the above projector as per site requirement including providing remote and integration 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 integration with auditorium control system.	1 No	86200.00	Each	86200.00
Total SH-II					527800.00

S.No.	Description of Item	Qty.	Rate	Unit	Amount
ABSTRACT OF COST					
	SUB-HEAD-I - AUDIO SYSTEM				6857500.00
	SUB-HEAD-II - VISUAL SYSTEM				527800.00
				Total	7385300.00
				Add contingencies @5%	369265.00
				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: Haryana
Branch: E&M

Circle: CCEC
Division: KCED Karnal

N/W: 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

- 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
- j) Software system for recording.
- k) Feed back suppressor.
- l) Audio mixer.
- m) PTZ Camera
- n) Key Board Compact with joystick
- o) Allegiant matrix switcher
- p) Customized rack. and necessary cabling etc.

Visual System

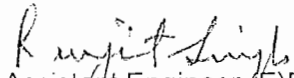
- a) 7000 ANSI lumes UL/EN Listed projector with 3LCD with motorized lift.
- b) Wall Mounted, motorised projection Screen, 150" Diagonal.

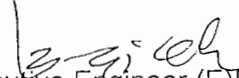
Method: Through Contract


Rates: Market Rate

Time: 6 Months

Cost: Rs.77,76,615/- including 5% contingencies


Assistant Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.


Executive Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.

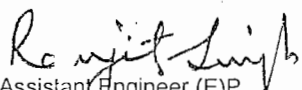

Superintending Engineer (E)
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.


PRELIMINARY ESTIMATE


Nr. V: Providing Audio System in Senate 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 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.	2 Nos		15000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of PTZ Camera 28X day night Indoor Camera complete as required.	1 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.	1 No.		25000.00	Each	25000.00

S No.	Description of Item	Qty.		Rate	Unit	Amount
1.	Providing necessary cabling, connector sets, brass grommets, testing etc. as required.	1	Job	100000.00	Job	100000.00
	Total SH-I					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).	1	No	500000.00	Each	500000.00
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.	1	No	86200.00	Each	86200.00
	Total SH-II					657300.00
ABSTRACT OF COST						
	SUB-HEAD-I-AUDIO SYSTEM					6749000.00
	SUB-HEAD-II - VISUAL SYSTEM					657300.00
					Total	7406300.00
					Add contingencies @5%	370315.00
					Grand Total	7776615.00


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: Haryana
Branch: E&M

Circle: CCEC
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.

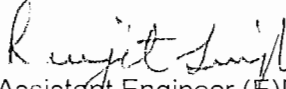
- 1) Digital Chairman Unit.
- 2) Digital delegate Units.
- 3) Discussion central control unit.
- 4) Wire less handheld/Wireless lapel/Podium mic
- 5) 240 W @ 4/100 V Ohm power amplifier
- 6) High quality 4-inch Co-Axial Two Way 30 watt ceiling loudspeakers speaker
- 7) Lighting Automation.

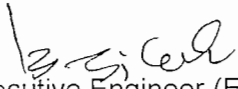
Method: Through Contract

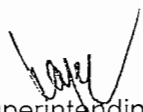
Rates: Market Rate

Time: 3 Months

Cost: Rs.12,63,360/- including contingencies


Assistant Engineer (E)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					
No.	ITEM DESCRIPTION	Qty,	Rate	Unit	Amount
	Conference room (CAPACITY 30 SEATER)				
	SUB-HEAD I - Digital Conference System				
1	Flush Mounted Chairman unit with following features The chairman can switch on his microphone without any limitation 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. 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.	1 No.	72,000.00	Each	72,000.00
2	Flush Mounted Delegate Unit with following features 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 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 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	630,000.00
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 PC or other available media control systems such as AMX®, Crestron®, Cue® etc. 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 control system				

	• 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 SH--I				925,000.00
	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.	4 Nos.	8800.00	Each	35,200.00
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 SH--II				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 projecctor screen of 10A, 4 x 5 Amps Dimmer Pack. + 4 x 20 Amps Relay Controller.	1 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.	16 Nos.	8,000.00	Each	8,000.00
	Total SH--III				160,000.00
ABATRACK OF COST					
1	SUB-HEAD I - Digital Conference System				925,000.00
2	SUB-HEAD II - Sound Reinforcement System				118,200.00
3	SH-III Lighting Automation system				160,000.00
				Total	1,203,200.00
				Add contingencies 5%	60,160.00
				Grand Total	1,263,360.00

Sanjit Singh
Assistant Engineer (E)P
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

3-3-2018
Executive Engineer (E)P
Chandigarh Cent. Elect. Circle
CPWD, Chandigarh.

Sanjit Singh
Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

subject)

id: "director@nitkkr.ac.in" <director@nitkkr.ac.in>, "Dr. K. K. Singh" <kks-ngh8@rediffmail.com>

KN Rai

Dejan (Estate)

 ~~$\rho(I(E_M))$~~

Answer: $\frac{1}{2} \times 0.8 = 0.4$

 $A \subset G$

2/8/16

2017

2/18/86

2. 10. 18

N.I.T. KURUKSHETRA					
Oy. No.	A-4	10	18	19	20
S	CPS	CP	CP	CP	CP
E	CP	CP	CP	CP	CP
T	CP	CP	CP	CP	CP
CE	CP	CP	CP	CP	CP
CP	CP	CP	CP	CP	CP
CP	CP	CP	CP	CP	CP

Gmail

Arun Goel <deanestat@nitkkr@gmail.com>

Fwd:

director <director@nitkkr.ac.in>
 To: Arun Goel <deanestat@nitkkr@gmail.com>

Fri, Jul 23, 2016 at 12:01 PM

2/18/16

----- Forwarded message -----

From: Kamal Nain Rai <knrai@yahoo.co.uk>

Date: Fri, Jul 22, 2016 at 10:56 AM

Subject:

To: "director@nitkkr.ac.in" <director@nitkkr.ac.in> "Dr. K. K. Singh" <kksingh@rediffmail.com>

Dear Sir,

I have sent details of AV system required for your JUBILEE and SENATE HALL S.

You may like to modify what has been given by CPWD because they have not followed latest available in the market.

Regards

KN Rai

2/18/16 SA
 2/18/16



Dy. No. 602
Dt. 1/8/16

director . <director@nitkkr.ac.in>

PROVISION OF AUDIO SYSTEM IN 3 PLACES AT NIT KURUKSHETRA

Kamal Nain Rai <knrai@yahoo.co.uk>

Fri, Jul 29, 2016 at 10:49 AM

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

N.I.T. KURUKSHETRA	
Dy. No.	4473
Date	1/8/16
IR	
E	
Hu	
PE	
GA	

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 Room 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

Dean (Estate)

2 attachments

NIT - KUK (1).docx
64K

NIT - KUK.xlsx
21K

P/I (Em)

Amended 01.08.2016

5050K
27/5/16

Q
10/8/16

AE (E)

S.A
27/8/16
19/8/16

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.

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Audio System			RATE	AMOUNT
1	Supply, Installation, Testing & Commissioning of of two way passive Line array speakers flyable ; frequency response 70hz to 18.5 hz with 1f driver 2 x 10 inch or above and with 1 x 1.50 inch hf or above ; with minimum sensitivity of 99db & max spl of minimum 136 db ; with 600 – 800 watt continuous rms power or above. Makes : JBL / Martin Audio / Celto Acoustique / RCF or Equivalent	NOS.	10	195,000.00	1,950,000.00
2	Supply, Installation, Testing & Commissioning of of Sub-woofer. High Performance Compact Subwoofer, Dual 18" (4" VC), Max SPL (Peak) : 140 dB / 1m, with minimum sensitivity of 101 dB Nominal Impedance 4 ohms ; with 2400 watt continuous rms power. Makes : JBL / Martin Audio / Celto Acoustique / RCF or Equivalent	NOS.	2	135,000.00	270,000.00
3	Supply, Installation, Testing & Commissioning of of OEM array 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 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 continuous 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

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	Supply, Installation, Testing & Commissioning of of Wall Mount Loudspeaker with LF 6", HF - 1" hf comp-resser driver unit only not with tweeter , 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 continuous 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	NOS.	4	15,000.00	60,000.00
6	Supply, Installation, Testing & Commissioning of of High Performance 2 way Speaker System for surround sound ; with , LF - 8" , HF - 1" hf comprosser driver unit only not with tweeter , 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 continuous 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	NOS.	4	38,000.00	152,000.00
7	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	NOS.	8	55,000.00	440,000.00

265

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8	Supply, installation, Testing & Commissioning of Amplifiers for filler speakers & box area speakers. Approved Makes: crown xti 4002 / Powersoft Equivalent / LabGruppen Equivalent / VAL Audio Equivalent / Martin audio Equivalent	NOS.	2	39,000.00	78,000.00
9	Supply, Installation, Testing & Commissioning of Power 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	NOS.	2	84,500.00	169,000.00
10	Supply, Installation, Testing & Commissioning of Digital Signal 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	NOS.	1	65,000.00	65,000.00
11	Supply, Installation, Testing & Commissioning of 22 total 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	NOS.	1	125,000.00	125,000.00

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12	Supply, Installation, Testing & Commissioning of U-F Wireless 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	NOS.	3	29,500.00	88,500.00
13	Supply, Installation, Testing & Commissioning of UHF Wireless 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 / Sennheiser Equivalent / Audio technica Equivalent	NOS.	3	29,000.00	87,000.00
14	Supply, Installation, Testing & Commissioning of Dynamic, 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	NOS.	6	7,200.00	43,200.00
15	Supply, Installation, Testing & Commissioning of Microphone Stand etc. complete with installation as per the site requirement. Make/Model: Ahuja / GS Customized	NOS.	4	1,500.00	6,000.00

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
16	Supply, Installation, Testing & Commissioning of Gooseneck 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	NOS.	2	13,500.00	27,000.00
17	Supply, Installation, Testing & Commissioning of 36U 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	NOS.	1	40,000.00	40,000.00
18	CABLING WORK				
19	S.I.T.C of Speaker Cable, 14 AWG stranded (19x27) ETP high 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	RM	500	75.00	37,500.00
20	Microphone Cable 23/0.76 ATC PVC Sheathed Make/Model: Kramer / Belden / Extron / Sommer	RM	350	110.00	38,500.00
21	Supply, Installation, Testing & Commissioning of the floor junction boxes on the stage for the various mic inputs with xlr inputs on the boxes Make Custom	NOS.	10	2,200.00	22,000.00
	TOTAL FOR AUDIO SYSTEM			TOTAL	3,948,700.00
	<u>Video System</u>				

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Supply , Installation , Testing & Commissioning of 3 chip 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 RS232 (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 .	NOS.	1	1,325,000.00	1,325,000.00
2	Supply, installation, testing & commissioning of Long Throw 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 .	NOS.	1	139,500.00	139,500.00
3	Supply, installation, testing & commissioning of Motorised 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.	NOS.	1	55,000.00	55,000.00
4	Supply, Installation, testing & commissioning of Modular 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.	NOS.	1	825,000.00	825,000.00

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	Supply, Installation, testing & commissioning of PTZ, Camera 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 .	NOS.	2	113,850.00	227,700.00
6	Supply, Installation, Testing & commissioning of Cable Cubby 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.	NOS.	2	13,275.00	26,550.00
7	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.	NOS.	1	268,200.00	268,200.00
8	Supply, Installation , Testing & Commissioning of HD Blue ray Player , MEDIA COMPATIBILITY: BLUE RAY, DivX, CD-R/-RW/ DVD +R/+RW/-R/-RW, CD-R/R Playback,DVD+R/+RW, DVD+R Dual Layer,Makes : Sony / Panasonic /Samsung	NOS.	1	7,200.00	7,200.00

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9	Supply Installation Testing & Commissioning of Touch Control System with 10" Touch panel , Control processor with required IR Probes to control AV equipments. Approved Make : Creston / AMX / Control4.	NOS.	1	325,000.00	325,000.00
10	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 .	NOS.	4	17,280.00	69,120.00
11	Supply , Installation , Testing & Commissioning Twisted pair receiver convert Cat6 signal to HDMI & Control RS 232/IR signals (Upto 100 meter). Approved Make : Extron / Kramer /Delta equivalent .	NOS.	4	16,200.00	64,800.00
12	Supply installation Testing & commissioning of HDMI Cables with connectors at both ends. Size 1.8 mtr. Approved Make : Kramer / Extron / Belden	NOS.	2	2,160.00	4,320.00
13	Supply installation Testing & commissioning of HDMI Cables with connectors at both ends. Size 5 mtr. Kramer / Extron / Belden equivalent	NOS.	2	3,600.00	7,200.00
14	Supplying & drawing of RGBHV Cable, in the conduit / raceway etc. complete as per the specifications. Kramer / Extron / Analog Way	NOS.	200	180.00	36,000.00
15	Supplying & drawing of Shielded Twisted Pair cable (CAT 6) complete as per the specifications. Kramer / Extron equivalent / D-Link equivalent	RM	400	49.50	19,800.00
16	Supply, Installation Testing & Commissioning 20U Rack with 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	NOS.	1	22,500.00	22,500.00
	G.Total				3,422,890.00

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
GRAND TOTAL OF JUBILEE HALL (AUDIO & VIDEO SYSTEM)					
7,371,590.00					
2 SENATE HALL					
AUDIO SYSTEM					
1	Supply, installation, testing and commissioning of Digital Conferencing System with 48 cm gooseneck stand , 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 / Brahler / BXB / Bosch / Clearone / Televic or equivalent..	NOS.	80	25,000.00	2,000,000.00
2	Supply, installation, testing and commissioning of Controller 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.	NOS.	1	175,000.00	175,000.00
3	Supply, installation, testing and commissioning of Power Supply Unit for Conferencing System	NOS.	1	65,000.00	65,000.00
4	Supply, installation, testing and commissioning of Cat 6 cable with jack at all termination point in covered MS Race way 75 x 25mm in surface .	RM	150	120.00	18,000.00

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	Supply, Installation, Testing & Commissioning of Two-Way Surface Mount Speakers with 5" , complete as per the specifications. Approved Makes: Extron / QSC / JBL		10	9,000.00	90,000.00
6	Supply, Installation, Testing & Commissioning of OF Power Amplifier . Class H or Class D Dual Channel Professional Power 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		2	27,500.00	55,000.00
7	Supply, Installation, Testing & Commissioning of of feedback suppressor with Balanced line or microphone input with phantom supply, Phantom power 16V (Mic only, switchable). Frequency response 125Hz to 15000Hz Distortion <1% at 1Khz, Signal delay < 11 ms, Up to 12dB additional gain .	Nos.	1	35,000.00	35,000.00
8	Supply, Installation, Testing & Commissioning of of 12 input 8 output Digital Matrix Processor with min 8 channel of AEC & 48V Phantom power, POTS and network audio transmission with min latency of max 5ms , complete as per the specifications . Approved makes: BSS / Extron / Clearone / Biamp		1	145,000.00	145,000.00
TOTAL					2,583,000.00
Video System					

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Supply , Installation , Testing & Commissioning of 3 chip 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 RGB (S 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	NOS.	1	1,325,000.00	1,325,000.00
2	Supply, installation, testing & commissioning of Projection 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 .	NOS.	1	139,500.00	139,500.00
3	Supply, installation, testing & commissioning of Motorised Lift with drop upto 48" , Load Capacity upto 25 Kg . Makes : Draper / Chief .	NOS.	1	125,000.00	125,000.00
4	Supply, Installation, testing & commissioning of Motorised 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.	NOS.	1	55,000.00	55,000.00
5	Supply, Installation, testing & commissioning of Modular 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.	NOS.	1	825,000.00	825,000.00

<u>1</u> JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	Supply, installation, testing & commissioning of PTZ, Camera 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.	NOS.	2	113,850.00	227,700.00
7	Supply, Installation, Testing & commissioning of Cable Cubby 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.	NOS.	2	13,275.00	26,550.00
8	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 / Movision equivalent.	NOS.	1	268,200.00	268,200.00
9	Supply, Installation, Testing & Commissioning of HD Blue ray Player, MEDIA COMPATIBILITY: BLUE RAY, DivX, CD-R/-RW, DVD +R/-RW/-R/-RW, CD-R/R Playback, DVD+R/-RW, DVD+R Dual Layer, Makes : Sony / Panasonic / Samsung	NOS.	1	7,200.00	7,200.00

<u>1</u> JUBILEE HALL						
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
10	Supply Installation Testing & Commissioning of Touch Control System with 10" Touch panel , Control processor with required IR Probes to control AV equipments. Approved Make : Crestron / AMX / Control4.	NOS.	1	325,000.00	325,000.00	
11	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 .	NOS.	4	17,280.00	69,120.00	
12	Supply , Installation , Testing & Commissioning Twisted pair receiver convert Cat6 signal to HDMI & Control RS 232/IR signals (Upto 100 meter). Approved Make : Extron / Kramer /Delta equivalent .	NOS.	4	16,200.00	64,800.00	
12	Supply Installation Testing & commissioning of HDMI Cables with connectors at both ends. Size 1.8 mtr. Approved Make : Kramer / Extron / Belden	NOS.	2	2,160.00	4,320.00	
14	Supply Installation Testing & commissioning of HDMI Cables with connectors at both ends. Size 5 mtr. Kramer / Extron / Belden equivalent	NOS.	2	3,600.00	7,200.00	
15	Supplying & drawing of RGBHV Cable, in the conduit / raceway etc. complete as per the specifications. Kramer / Extron / Analog Way	NOS.	200	180.00	36,000.00	
16	Supplying & drawing of Shielded Twisted Pair cable (CAT 6) . complete as per the specifications. Kramer / Extron equivalent / D-Link equivalent	RM	400	49.50	19,800.00	
16	Supply, Installation Testing & Commissioning 20U Rack with 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	NOS.	1	22,500.00	22,500.00	
			Total		3,547,830.00	

1 JUBILEE HALL					
S.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
GRAND TOTAL OF SENATE HALL (AUDIO & VIDEO SYSTEM)					6,130,891.00

NATIONAL INSTITUTE OF TECHNOLOGY
KARUKSHETRA

No. GGS/506/542

Dated: 01.05.2016

To

The Superintending Engineer (E)
Chandigarh Central Circle, CPWD
Kendriya Sadan, Sector 3 A
Chandigarh

Subject: The Revised Preliminary Estimate for the works
(i) Providing Audio System in Jubilee Hall at NITK for
Rs. 77,54,565/-
(ii) Providing Audio System in Senate Hall at NITK for Rs. 11,74,615/-
(iii) Providing Audio System in Board Room of New Admin. Building
at NITK for Rs. 12,53,565/-

Reference: Your office letter No. 23/1399/111 dated 17.02.2016 dated 05.05.2016

The competent authority of the Institute decided that the revised preliminary estimates submitted by you for the above works are approved as per the report issued by Mr. K. B. Datta, Joint Chief Engineer, Chandigarh, Ministry of Finance, D.V. No. New Delhi dated 18.04.2016.

This is for your information and further action as may be required.

Deep S. Chahal
Deputy Secretary

Copy to

1. For an P.W.D. Chandigarh copy to
2. For an P.W.D. Chandigarh copy to
3. For an P.W.D. Chandigarh copy to
4. For an P.W.D. Chandigarh copy to
5. For an P.W.D. Chandigarh copy to
6. For an P.W.D. Chandigarh copy to

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
Director,
National Institute of Technology
Kurukshetra | Chairman |
| 2. | Shri K. N. Rai
Former Chief Executive & Advisor
Ministry of Defense (DRDO)
C-4, 4112, Vasant Kunj
New Delhi | Member |
| 3. | Prof. V.K. Sehgal
Dean (Planning & Development)
National Institute of Technology
Kurukshetra | Member |
| 4. | Er. R. K. Sao
Superintending Engineer (Electrical),
Chandigarh Electrical Central Circle, CPWD
Kendriya Sadan, Sector-9A
Chandigarh | Member |
| 5. | Prof. Arun Goel
Dean (Estate)
National Institute of Technology
Kurukshetra | Special Invitee |
| 6. | Prof. V. P. Singh
Prof-in-Charge (E&C)
National Institute of Technology
Kurukshetra. | Special Invitee |
| 7. | Dr. Saurabh Chanana
Prof- in- Charge (Electrical Maintenance)
National Institute of Technology
Kurukshetra | Special Invitee |

- Item 12.7 partial compliance report has been received from CPWD vide letter no. 20/38/KCCD/2016-2017/1829 dated 16-08-2016 regarding the final inspection carried out by NIT, Kurukshetra and defects pointed out by inspection committee which were already conveyed to CPWD for rectification of the work of providing and installation of 16:20 meter High Mast Lights at Sports Ground and various other location at NIT, Kurukshetra. The Superintending Engineer (Elect.) assured that CPWD will remove all defects by 31st October, 2016 under intimation to the Institute.
- Item No. 19.4 The revised estimate for the work of Provision of Water Proofing Treatment of Existing Terrace/Road Planks concrete/ingress of parapet coping and balconies and plastering of external walls in teaching and non-teaching houses has been received from CPWD vide letter no. CCC/23(4515)/NIT-3/1829 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 of providing of concertina coil over the Institute boundary for security purpose is in progress. The Executive Engineer (Civil) CPWD informed that the work shall be completed by 31.10.2016.
- Item 19.10, 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.
- Item 19.11 Estimate for the work of Providing Peripheral Road along the External Boundary Wall of the Institute for Security and Maintenance Purpose at NIT, Kurukshetra has been received from CPWD vide letter no CCC/23(4515)/NIT-3/1828 dated 24-08-2016. The same shall be put up before EAC in its ensuing meeting for further recommendation.

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NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

No.Gen-I/3797/ 6037

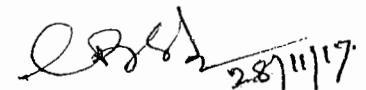
Dated: 28/11/17

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:

1. Specification of PVC Paneling & Work Station for Board Room
2. Schedule of the work for providing Audio in the Board Room
- ✓ 3. Schedule of the work for providing Video in the Board Room

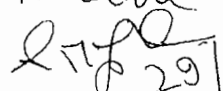
The work may be executed as per the requirement.


Dy. Registrar (GA & Legal)
for Director

Encl: As above


29.11.17

Prof.-in-Charge (Estate & Construction)

AEC) Prepare three file as per specification of
Sr NO 1, 2 & 3 as per Annexure attached.

29/11/17

Faculty II (EM 85)

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-DHSI IDC, Sector-3
Karnal

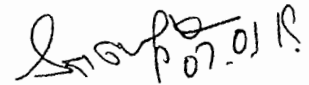
Subject: - To submit the cost estimate for the civil, electrical & audio system works in the Jubilee Hall, Senate Hall and Covering of Open Air Theatre at NIT, Kurukshetra

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

ग. र. वि. वि. वि.
केन्द्रीय लोक निर्माण विभाग
आवृत्ति/आवृत्ति/आवृत्ति (वि. वि.)
कर्मचारी, केन्द्रीय विभाग, भारत
203-डी, एन एन.ए.डी. अ. वि. वि. वि.
विभाग - 3, कर्मचारी - 132001
E-mail: central.karnal@cpwd.gov.in



GOVT. OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
OFFICE OF THE EXECUTIVE ENGINEER (E)
KARNAL CENTRAL ELECT. DIVISION
203-D, H.S. L.D.C., SECTOR-3
KARNAL - 132001
TEL: 0154 2220460

No. 20138/KC/14/2019/ 144

Date: 17/11/2019

To,

✓ Professor I/C (Estates & Construction),
National Institute of Technology,
Kurukshetra.

17/11/2019
14/11/2019
21/11/2019

Sub: Preliminary 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.23:1301/CC/EC/2013-14/1142 Dated:-08.09.2014

Sr,

In reference of above subject the Preliminary Estimate for the work in Jubilee Hall & Senate Hall was required. In this connection it is intimated that the Preliminary Estimate for the work has been submitted already by the Competent Authority vide referred letter at Sr.No.21 (Photocopy enclosed).

Executive Engineer (E)
Karnal Central Elect. Division
CPWD, Karnal

Copy to:

1. The Superintending Engineer (E), Chandigarh Central Electrical Circle, CPWD, Kendriya Sadan 3rd Floor, Sector-5A, Chandigarh 160017 for information please

Executive Engineer (E)



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



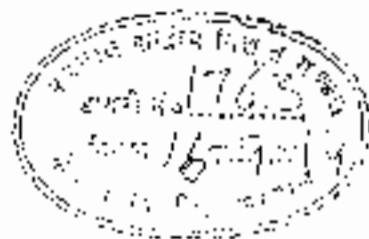
अधीक्षक अभियंता (ई-ए)
भारतीय केंद्रीय लोक निर्माण विभाग,
असम विभाग, गुरुदासपुर-781005

Office of the
Superintending Engineer (E),
Chandigarh Central Elect. Circle,
CPWD, Sector-9(A), Chandigarh-160 019
Email: - seecircledelcpwd@nic.in

स.O.23(430)/अधीक्षक/ई-ए/10/2013-14: 1142

दिनांक - 18/07/2014

The ICMA, (Estates),
National Institute of Technology,
Kurukshetra (Haryana)



Sub: ~~अधीक्षक~~ Preliminary Estimate for the works:-

1. Providing Audio System in Jubilee Hall at NIT Kurukshetra. Rs.1,17,49,700/-
2. Providing Audio System in Senate Hall at NIT Kurukshetra. Rs.00,01,520/-
3. Providing Audio System in Board Room of New Admin. 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 1st and 2nd sheets of the preliminary estimates.

The copies of the preliminary estimates duly approved may be sent to S's office for the necessary action clearly indicating Head of Account.

संलग्न - 03/00/अधीक्षक

(Signature)
अधीक्षक अभियंता (ई-ए)

अधीक्षक अभियंता (ई-ए)
चण्डीगढ़ केंद्रीय विद्युत वॉरेण्टल
केंद्र क्षेत्र नि. नि. चण्डीगढ़.

1. The Executive Engineer (E), KCHD, CPWD, Kurukshetra alongwith copies of the preliminary estimates with reference to his letter No 2006/KCHD/Kurukshetra/2014-887 dated 22.06.2014.

(Signature)
अधीक्षक अभियंता (ई-ए)
चण्डीगढ़ केंद्रीय विद्युत वॉरेण्टल
केंद्र क्षेत्र नि. नि. चण्डीगढ़.



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



कार्यालय:

अधीक्षण अभियन्ता (वै०)
चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल,
के०लो०नि०वि०, सेक्टर-९(ए), चण्डीगढ़-१६००१९

Office of the:

Superintending Engineer (E),
Chandigarh Central Elect. Circle,
CPWD, Sector-9(A), Chandigarh-160 019
Email:- seecec.chd.cpwd@nic.in

सं०२३(१३०)/च०कै०वै०परि०/२०१३-१४/ ११५२

दिनांक ०८/०९/२०१४

To

The DEAN (Estate),
National Institute of Technology,
Kurukshetra (Haryana).

Inf. & (Em)
15/9/14
NS
22/9/14
Sr. Act. + file pl
22/9/14

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.

संलग्न:- उपरोक्तानुसार

Lc/d
अधीक्षण अभियन्ता (वैद्युत)
चण्डीगढ़ केन्द्रीय वैद्युत परिमंडल
के० लो० नि० वि०, चण्डीगढ़।

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.

Lc/d
अधीक्षण अभियन्ता (वैद्युत)

GOVT. OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State: 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.
- l) 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
Time: 6 Months
Cost: Rs.1,17,46,700/- including contingencies

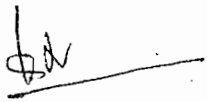

Assistant Engineer (E)P
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

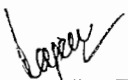

Superintending Engineer (E)
Chandigarh Central Electrical Circle
CPWD, Chandigarh.

PRELIMINARY ESTIMATE						
Name of Work: 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
11	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 grommets, 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	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
7	24W LED DIMMABLE LIGHT round recssed 4000k LED spot light	100 Nos.	4800.00	Each	480000.00

S.No.	Description of Item	Qty.		Rate	Unit	Amount
9	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
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
ABSTRACT OF COST						
	SUB-HEAD-I - AUDIO SYSTEM					6857500.00
	SUB-HEAD-II - STAGE LIGHTING, AUDITORIUM LIGHTING AND AUTOMATION.					4389200.00
					Total	11246700.00
	Add 3% contingencies or Rs.5.00 Lacs whichever is maximum					500000.00
					Grand Total	11746700.00


 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

State: Haryana
Branch: E&M

Circle: CCEC
Division: KCED Karnal

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.

Design & Scope: 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
- j) Software system for recording.
- k) Feed back suppressor.
- l) 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.


- a) Smart lighting system comprising of energy efficient fixtures with dimming option and lighting control system.

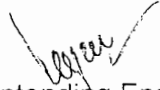
Method: Through Contract

Rates: Market Rate

Time: 6 Months

Cost: 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.


PRELIMINARY ESTIMATE

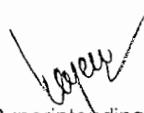
Name of Work: Providing Audio System in Senate Hall at NIT Kurukshetra.

S.No.	Description of Item	Qty.		Rate	Unit	Amount
	SUB-HEAD-I - AUDIO SYSTEM					
1	Supplying, Installation, Testing and Commissioning of 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.	2 Nos		15000.00	Each	30000.00
13	Supplying, Installation, Testing and Commissioning of PTZ Camera 28X day night Indoor Camera complete as required.	1 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.	1 No.		25000.00	Each	25000.00

S.No.	Description of Item	Qty.		Rate	Unit	Amount
1	Providing necessary cabling, connector sets, brass grommets, testing etc. as required.	1	Job	100000.00	Job	100000.00
	Total SH-I					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 optimum photometric properties; 32 W; colour-temperature variation: 2700-6500K (warm white-neutral white-daylight white); luminous flux: >2000lm for 32 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 & 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 SH-II					1823400.00

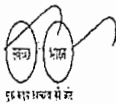
S.No.	Description of Item	Qty.	Rate	Unit	Amount
ABSTRACT OF COST					
	SUB-HEAD-I - AUDIO SYSTEM				6749000.00
	SUB-HEAD-II - LIGHTING AND AUTOMATION.				1823400.00
				Total	8572400.00
				Add 5% contingencies	428620.00
				Grand Total	9001020.00


 Assistant Engineer (E)P
 Chandigarh Central Electrical Circle
 CPWD, Chandigarh.


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

DYN0217

Dt: 14/2/19



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 स्टेट 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(NIT)/यो.शा./क.के.मं/2018/532

दिनांक...18/2/19

सेवा में,

डीन (एस्टेट), / Prof. Me (EFC)
राष्ट्रीय प्रौद्योगिकी संस्थान,
कुरुक्षेत्र हरियाणा।
पिन-136118

विषय : Renovation of Senate Hall at NIT Kurukshetra.

संदर्भ : आपका पत्र संख्या /CC/3527/17/132 दिनांक 07.01.2018

महोदय,

उपरोक्त कार्य का प्रारम्भिक/विस्तृत प्राक्कलन जिसकी लागत रुपये 58,37,400/- है है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतु संलग्न है।

कार्य की आवश्यकता और अनुमान के प्रावधानों को रिपोर्ट में दर्शाया गया है। अतः आपसे अनुरोध है कि कार्य की मंजूरी भेजते समय "लेखा शीर्ष" जिसके अंतर्गत 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 अभियंता
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 पत्र सं 24(8)/स.ई.कु./2019/33 दिनांक 08.02.2019 के संदर्भ में सूचनार्थ।

कार्यपालक अभियंता

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

State: Haryana

Branch: D & R

NAME OF WORK: Renovation of Senate Hall at NIT Kurukshetra.

Division: KCD

Sub-Division: KCSD

MAJOR HEAD	MINOR HEAD	DETAIL HEAD
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This preliminary estimate framed by En. Ashok Garg, Assistant Engineer, Kurukshetra Central Sub-Division and further processed by En. Vipin Kumar Arora, Assistant Engineer (C), Kanak Central Division, CPWD, Kanak for Rs. 68,37,400/- in contingencies.

REPORT

History: This preliminary estimate amounting to Rs. 68,37,400/- in contingencies has been framed to cover the probable cost of the above mentioned work for account of G.A. & E.S. by the competent authority. The requisition for the above cited work has been received from Dist. WC (State & Construction) vide their office letter No. WC/5527/17-17 dated 01.03.19. Hence this estimate has been framed.

Design & Scope: The following provisions have been made in this estimate:-

1. Providing and fixing false ceiling at all height including providing and fixing of same work, 12 mm thick tapered edge gypsum moisture resistant board for sloping portion of the roof.
2. Providing and fixing of Wooden Carpet of Birla Transas make of Optasly Valvet (Grade of Plywood) 1250 Gms./sqm for main hall of the Jubilee Hall.
3. Providing and fixing Jupiter Auditorium Chair - PCP-2342H/23-2 H approx. seat base depth 42 cm width @ of rear 44 cm width @ of front 41 cm and back rest assembly with back rest height - 65.5 cm & Width @ top 34.5 cm Width @ seat level - 48.0 cm of Godrej make.
4. Providing and fixing Gypsum Wood perforated panels of width 125 mm, thickness of 15 mm and length of 2445 mm for ceiling portion (Side & Part walls at Ground floor and balcony of the auditorium).
5. Replacement of floor & wall tile of toilets and dressing replacement of fixtures.
6. Finish work with oil bound distemper & acrylic emulsion paint of interior.

Specification: CPWD Specification 2009 Vol. 3 & 4 with upto date correction slips.

T & P: Shall be arranged by the contractor.

WC Establl. Drawing: Shall be met out of contingencies.

Land: Available within site (Depot).

Rate: Based on DSR - 2016 & market rates.

Method: Through contract after call of tender.

Time: 24 Months (after receipt of G.A. & E.S).

Cost: Rs. 68,37,400/- in contingencies.

Notes: The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from those as such as change in scope, work design and specifications etc. It is desired by the client at a later date. The execution of the work will be under the control of the client through authorization of regular allocation and in time span of the five years.

Assistant Engineer (P)
Kanak Central Division
CPWD, Kanak

Executive Engineer
Kanak Central Division
CPWD, Kanak

Appendix-B
(Reference-Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS
(To be issued to the client department)

डीन (एग्जिक्यूटिव),
राष्ट्रीय प्रौद्योगिकी संस्थान,
मुंबई महानगर क्षेत्र
दिनांक १३/०६/१९८९

धन: Execution of Deposit works.

Renovation of Senate Hall at NIT Kurukshetra.

The above work can be taken up by the CPWD as a Deposit work under para 1.8.19 of CPWD Code, subject to the following:

1. The estimate and cost of work as worked out by CPWD including departmental charges will have to be approved 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 deposit.
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 intend itself to complete the work within the estimated cost. If additional fund is required, the same will have to be provided by the client department. Necessary revised estimates will be furnished as and when required.
4. Any dispute arising out of the execution of the contract (s) for the project 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 confirmed 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 dues 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 works.
6. After receipt of A/E & 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 local action work. These local bodies are independent organizations and CPWD has no control over them. These local bodies take their own time for approving the plans. The time required in getting approvals is not such as in the case 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 to communicate with the local bodies for early approval.
7. The CPWD has no funds of its own for executing 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 the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of the stoppage/alteration of work, including claims of contractors for completion of the work.
8. The client department will help CPWD in (a) providing site facilities in the form of construction materials, labour, etc. (b) providing the necessary permits for carrying out the work, and (c) providing electricity connection. In execution of work, no payment of cost of charges, and its submission and release of land over the same under electricity's sole authority.
9. CPWD may at its discretion allow the clients to deposit the funds in a stipulated bank and even CPWD would be required to deposit it against the last portion of the estimated expenditure.
10. In case where funds are deposited in instalments, CPWD will not be liable for late interest, stoppage of work, claims of contractors for completion of the work, etc. due to non-receipt of funds in instalments.

Amount deposited to cover the completion of the work, to enable the client to proceed further.

Yours faithfully,

Executive Engineer,
Regional Engineer,
CPWD, Mumbai.
E.A. 93/1-133061 (1/1)

Preliminary Estimate
Renovation of Senate Hall at NIT Kurushetra.

DSR No.	Description	Qty	Unit	Rate	Amount
REINFORCED CEMENT CONCRETE					
1	5.3 Reinforced cement concrete work in beams, suspended doors, roof having slope up to 12° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair bases above plinth level up to floor level, excluding the cost of centering, shuttering, finishing and reinforcement, with (1) 5.1 (1) cement : 1.5 coarse sand (zone II) : 3 graded stone aggregates (20 mm nominal size)				
1.2	5.3 Centering and shuttering including strutting, propping etc. and removal of form fit.	0.2	cum	7350.00	1473.00
1.2	5.3.4 Sholes (Cast in situ)	3	sqm	432.50	1297.50
1.3	5.22.4 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding at complete above plinth level				
1.3	5.22.4.1 Thermo-mechanically Treated bars of grade Fe-500, D 8 mm.	25	kg	56.60	1415.00
MARBLE AND GRANITE WORK					
2	6.2 Flooring & fixing 18 mm thick gang saw cut, smooth polished, prefinished and prefinished machine cut or kitchen platform variety counters window sills, steps and similar sections of required size, approved shade, colour and texture laid over 20 mm thick base cement concrete (1:4 cement : 4 coarse sand), joints filled with white cement mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss in order complete at all levels				
2.1.1	6.2.2 Granite of any colour and shade				
2.1.1	5.2.2.3 Area of slab over 0.00 sqm	3	sqm	3113.00	9340.00
2.2	6.6 Extra for providing opening of required size & shape for wash basin, kitchen sink in kitchen platform, vanity counter and similar location in match of Granite stone work, including necessary holes for pipes etc. including moulding, rubbing and polishing of cut edges etc. complete				
		4	cmh	427.05	1712.00
WOOD AND P.V.C. WORK					
3.1	9.10.3 Flooring and fixing brass finished brass 100 mm nominal bore and lock 100 mm bore with six levers and a pair of polished chrome casting not less than grade AG-10 as per IS : 13550 aluminium lever handles of approved quality with necessary screws etc. complete				
		2	sqm	672.15	1344.30
3.2	9.12.1 Flooring & fixing decorative light pressure laminated sheet of glass or wood grain or glass / marble grade finish with high density protective surface layer and reverse side of an adhesive bonding quality conforming to BS : 2745 Type S, including cost of adhesive of approved quality				
3.2.1	5.13.2	1.0	sqm	975.00	975.00

1-		FLOORING				
11.79		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 : 13622 of approved make, in colours White, Grey, Gray, Fawn Red Brown laid on 20 mm thick cement mortar 1:4 (Concrete : coarse sand), jointing with grey cement slurry @ 3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete.	29	sqm	332.45	21284.00
11.80	11.81	Chamfer slabs 10 mm thick on users of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 of cement : coarse sand; and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	45	sqm	3201.70	256135.00
3	12	PAINTING				
11.82	12.45	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 one coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.5 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener of 12.5 mm dia x 50mm long with turn its 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 C.I. channels 45x50x5 mm running at the spacing of 1200 mm centre to centre to which the ceiling section 15 mm thick perforated sheet of 80 mm with tapered flanges of 26 mm each having top of 12.5 mm at 450 mm centre to centre, shall be loaded in a direction perpendicular to C.I. intermediate channels with connecting clips made out of 2.54 mm dia x 130 mm long (31 wire at every junction including fixing perimeter channels 0.6 mm thick 27 mm high having flanges of 20 mm and 70 mm long, the perimeter of ceiling fixed in wall/partition with the help of nail plugs at 450 mm centre.				
11	12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board	3.5	sqm	558.60	301275.00
2	4	FINISHING				
11.86	11.87	Distempering with oil borne washable distemper of approved brand and material to give an even shade.				
11.88	11.89	New work (two or more coats) over and including water miscible priming coat with cement primer	12	sqm	60.70	3032.50
11.90	11.91	Providing and applying white cement based putty of average thickness 1 mm of approved brand of manufacturer, over the distempered wall surface to prepare the surface even and smooth complete.	103	sqm	33.20	3397.60
11.92	11.93	Wall painting with premium acrylic emulsion paint of one coat using V.O.C. (Volatile Organic Compounds) content less than 50 grams/litre of approved brand and manufacturer, including applying additional coats wherever required to achieve even shade and colour.				
11.94	11.95	Two coats	71	sqm	71.20	10237.50

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	sqm	36.95	8499.00	
14	REPAIRS TO BUILDINGS					
14.46	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.	263	sqm	10.80	2840.00	
7.2	14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
7.2.1	14.54.1	One or more coats on old work	287	sqm	51.30	14723.00
7.3	14.58	French spirit polishing :				
7.3.1	14.58.1	One or more coats on old work	28	sqm	105.85	2964.00
8	15	DISMANTLING & DEMOLISHING				
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	15.12.2	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	sqm	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/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	5	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.	80	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

17.5		Providing and fixing white vitreous china pedestal back and stall urinal of size 580x360x360 mm with white P.V.C. automatic flushing system, with fittings, standard size C.P. brass flush pipe, spreader with unions and clamps (all in C.P. brass) with waste fitting as per IS - 2550, 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.			
18.1	18.5.2	Range of two ball ball urinals with 5 liter P.V.C. automatic flushing system.	1 each	537.50	537.50
18.1	18.5.2	PROVIDER SUPPLY			
18.1	18.5.2	Providing and fixing unglazed P.V.C. connection pipe with brass unions			
18.1	18.5.2	45 mm length			
18.1	18.5.2	15 mm nominal bore	1 each	67.50	67.50
18.2	18.40	Providing and fixing C.P. brass hot and cold of approved quality conforming to IS:8031			
18.2	18.40.1	15 mm nominal bore	4 each	371.75	1487.00
18.3	18.43	Providing and fixing C.P. brass angle valves for basin mixer and geyser outlets of approved quality conforming to IS:8031			
18.3	18.43.1	50 mm nominal bore	17 each	475.70	8087.00
18.3	21	ALUMINUM WORK			
18.3	21.1	Providing and fixing aluminum work for doors, windows, ventilators and partitions with extruded rail or standard tubular section of appropriate Z sections and other sections or approved make conforming to IS 703 and IS 1285, fixing with Jash fasteners of required size and size including necessary filling up the gaps at joints, i.e. at top, bottom and sides with required CPDM support/pressure gasket etc. Additional sections shall be smooth, not fine, straight, milled and jointed in other way wherever required including heat treating. Aluminum angle bedding for glazing / panelling, C.P. brass / stainless steel screws, all according to per architectural drawings and the directions of Engineer in Charge. Glazing, painting and cash fasteners to be paid for separately.			
18.3	21.1.1	For fixed window			
18.3	21.1.2	Powder coated / minimum minimum thickness of powder coating 50 micron	40 kg	364.20	14568.00
18.3	21.1.2	Providing and fixing aluminum tubular handle bar 35 mm outer dia, 3.0 mm thick & 2100 mm long with 55 screws etc. complete as per direction of Engineer in Charge			
18.3	21.1.2.2	Powder coated minimum thickness 50 micron aluminum tubular handle bar	1 each	589.50	589.50
18.3	21.1.2.2	Providing and fixing 12 mm thick hammer toughened glass door shutter of approved brand and manufacture, including painting and fixing top & bottom pivot & spring type hinge arrangement. And making necessary holes etc. for fixing required lock / fittings. All according to per direction of Engineer in Charge. Door handle lock and shutter glass to be paid separately.	15 each	1100.00	16500.00

N.S.R Item					
	NSR	Providing and fixing 1st quality white ceramic tiles under counter oval shape wash basin of Jaquar (Cat. No. JNS-5017-4803) or similar series of equivalent make of size 135 x 120 x 425 with C.I. brackets & mounting of fittings and C.I. brass pipe & trap having auto closing system of Jaquar (Cat. No. JRS-001) or equivalent make, 22mm waste coupling of Jaquar Cat. No. ALD 709 or equivalent make and CP brass bottle trap (Size 30 x 19mm) of Jaquar Cat. No. AL 1/60L or equivalent make including cutting and fixing good fine work wherever required as per the direction of the Engineer-in-Charge.			
12.2	NSR	Providing and fixing basket fitted with 150cm long net bag Puchiha & wall hook of Jaquar make (No. ALD 573-02A) or similar series of equivalent make complete in all respects as per direction of Engineer-in-Charge.	12 Each	9155.55	109866.60
12.3	NSR	Providing and fixing Soap Dispenser of Jaquar (Category No. J04A) or equivalent make fixed with necessary screws as per direction of Engineer-in-Charge.	4 Each	2055.40	8222.60
12.4	NSR	Providing and fixing 100 mm diameter Stainless Steel (minimum grade 304) grating (Jali with frame) for gully floor or drain trap of the make as approved by Engineer-in-Charge.	4 Each	1640.05	6560.20
12.5	NSR	Providing and fixing oval Puchiha fitted with safety glass (minimum) of size 300mm x 450mm of Jaquar make (Model No. J1813-05) or similar series of equivalent make complete as per direction of Engineer-in-Charge.	8 Each	25.35	202.80
12.6	NSR	Providing and fixing of Woven Carpet of 800 Transvaal make of Dynasty Velvet Deluxe of Dynasty 1250 Gsm/Sqm including sticking of expanded polyurethane foam (EPD) plus adhesion to fix at site complete as per direction of Engineer-in-Charge.	3 Each	66.3870	200.1630
12.7	NSR	Providing and fixing Duplex Acclimor Class 701 236212 m/2 approx. mat size each 42 cm width @ of front 44 cm, width @ of front 41 cm, and back rest assembly with back size height 65 cm & width @ top 34.5 cm & width @ base level 40 cm of Gerdag make.	336 Sqm	2200.25	739284.00
			124 Each	14613.50	181182.00

		NSR	Providing and fixing Gyptech Wood perforated panels of width 128mm, thickness of 19mm and length of 2440mm or as approved by the Architect/Approving Engineer made of a Medium density fibre board substrate with laminated facing as per the approved material 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 "Hole-in-the-hole" ruled perforation of 2mm width and 14mm of visible panel/4mm width and 28mm visible panel each.			
			Install wooden batten (90 section 50x50mm or as approved by the Architect) on the solid wall horizontally using screws and plugs on spacing of 600mm centre-to-centre. Screw the aluminium extruded keel provided by Gyptech over the lowest second wooden batten at an interval distance of 600mm. Install the first set of wooden panels by matching the clip for batten and insert the groove of panel into projection of 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 insertion into the next keel till the actual height is achieved. Use a plumb for the batten to finish off the installation. Finish all the edges using wooden moulding of matching colour (provided by others).			
				140 Sqm	Rs.200.00	28000.00
12.6	NSR	Providing and fixing Chemical Bort to fix the chair in existing floor as per requirement of location and area.		230 Sqm	Rs.72.70	16922.00
		TOTAL				49162.00
		Add Cost Index (20.92% except NSR Item)	2.02%			9455.00
		TOTAL			(5)	495135.00
		Add Contingencies on (A) @	5.00%			24757.00
		Add Labour Session (A) @	1.00%			4951.00
		Add CPF on (A) @	11.90%			589185.00
		GRAND TOTAL				583282.00
					Say Rs.	58,27,280/-
		Assistant Engineer (I)			For an Engineer	
					Asst. at Central Division	
					CPWD, Karol	



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



JVINO 234
23/2/19

कार्यालय अधीक्षण अभियन्ता,
चण्डीगढ़ केन्द्रीय परिमंडल,
के.लो.नि.वि., केन्द्रीय सदन, सैक्टर-9ए, चण्डीगढ़।
दूरभाष सं.- 0172-2470924, 2743923
ई-मेल:- secce_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:- secce_cpwd2002@yahoo.co.in

संख्या: च.के.परि./23(4515)W-III/2018-19/391

दिनांक: 20/2/2019

सेवा में,

✓ The professor I/C (Estate & Construction),
National Institute of Technology,
Kurukshetra.

विषय: **Renovation of Jubilee Hall at NIT, Kurukshetra.**

उपरोक्त कार्य का **Rs.1,45,12,000/-** रुपये का प्रारम्भिक 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 एकाउंट) का भी उल्लेख करने की कृपा करें।

संलग्न: अनुमान (दो प्रतियां)

भवदीय

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

प्रतिलिपि:-

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

MAJOR HEAD	MINOR HEAD	DETAIL HEAD
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This preliminary estimate framed by Pt. C.S.Pasija, Executive Engineer, Karnal Central Division and further processed by Pt. J.K. Goel, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh for **Rs.1,45,12,000/-** i/c contingencies.

REPORT

History: This preliminary estimate amounting to **Rs.1,45,12,000/-** i/c 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. JRC (Estate & Construction) vide their office letter 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.

Design & 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 false ceiling at all height including providing and fixing of frame work
 - 12.5 mm thick tapered edge gypsum moisture resistant board for slanting portion of the roof.
 - Fully Perforated Gypsum Plaster Board of size 1200 x 3000x12.5 mm having approx. 15 % perforated area with NRC value not less than 0.60.
- Providing and fixing of Wooden Carpet of Birla Trans Asia make of Dynasty Velvet Deluxe of density 1250 Gms./Sqm for main Jubilee hall.
- Providing and fixing Jupiter Auditorium Chair Godrej make - PCH-2342H/2342IP 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 Fabric Phonic Acoustical wall paneling with square edges made of fiber glass substrate 25mm thick for vertical portion (Side and back walls at ground floor and balcony of the auditorium)
- Providing and fixing Gyptech Wood perforated panels of width 128mm, thickness of 15mm and length of 2440mm for vertical portion (Side and back walls at ground floor and balcony of the auditorium).
- Grinice work in entrance lobby and steps of the stair case
- Provision of 30 mm thick FRP flush door shutters with FRP door frame 90x45mm.
- Provision of stain less steel railing in balcony.
- Provision of vitrified tiles in green room and back gallery
- Replacement of floor and wall tiles of toilets including replacement of fixtures.
- Flushing with oil based distemper and acrylic emulsion paint of interior
- All allied misc. 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.

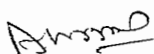
Method: Through contract after receipt of A/A & E/S.

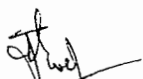
Time: 04 Months (After receipt of A/A & E/S)

i)	Preconstruction activity	One Month
ii)	Construction Activity	<u>Three Months</u>
	TOTAL	<u>Four Months</u>

Cost: Rs.1,45,12,000/-i/c 3% 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)-III,
Chandigarh Central Circle,
CPWD, Chandigarh.


Executive Engineer (P),
Chandigarh Central Circle,
CPWD, Chandigarh.

Original Estimate

Name of work:- Renovation of Jubilee Hall at NIT, Kurukshetra.

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 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 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 finish etc. complete at all levels.					8.2
1.1.1	Granite of any colour and shade					8.2.2
1.1.1.1	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 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-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:					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 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. complete :					9.97
2.3.1	250x10 mm	22	each	88.10	1938.00	9.97.2

Sr. 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. 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 cross piece	2	sqm	2761.90	5524.00	10.5.2
3.2	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.					10.13
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

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.).	110	kg	472.40	51964.00	10.28
4	FLOORING					11
4.1	38 mm thick wood block flooring of first class teak 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.	100	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 (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	sqm	1240.60	7444.00	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).					11.49
4.4.1	Size of Tile 600x600 mm	75	sqm	1169.55	87716.00	11.49.2

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	ROOFING					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 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 resistant board	306	sqm	958.65	293347.00	12.45.3
5.1.2	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	1135.50	295230.00	12.45.4

Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
6	FINISHING					13
6.1	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 brand and manufacture to give an even shade :					13.61
6.2.1	Two or more coats on new work	11	sqm	78.40	862.00	13.61.1
6.3	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.	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 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 Compound) content.					13.85
6.5.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	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.	960	sqm	10.80	10368.00	14.46
7.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an 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, architrave, holdfasts etc. complete and stacking within 50 metres lead :					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 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

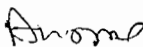
Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
8.5	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	566	sqm	24.30	13754.00	15.41
8.6	Dismantling of flushing cistern of 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.	215	sqm	22.40	4816.00	15.56
9	SANITARY INSTALLATIONS					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 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
10.1.1	45 cm length					18.21.2
10.1.1.1	15 mm nominal bore	34	each	67.80	2305.00	18.21.2.1
10.2	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :					18.22
10.2.1	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 :					18.49
10.3.1	15 mm nominal bore	10	each	371.70	3717.00	18.49.1


Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
10.4	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					18.51
10.4.1	15 mm nominal bore	4	each	492.55	1970.00	18.51.1
10.5	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					18.53
10.5.1	15mm nominal bore	34	each	475.70	16174.00	18.53.1
10.6	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.	8	Each	8156.85	65255.00	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
10.7	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	Each	2055.40	12332.00	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.
10.8	Providing and fixing Soap Dispensor of Jaquar (Category No. M04A) or equivalent 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.
10.9	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

Sr. No	Description	Qty.	Unit	Rate	Amount	DSR No.
10.10	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.	14	each	29.10	407.00	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
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-in-charge (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. No	Description	Qty.	Unit	Rate	Amount	DSR 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 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
11.7	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 using 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 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.	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.

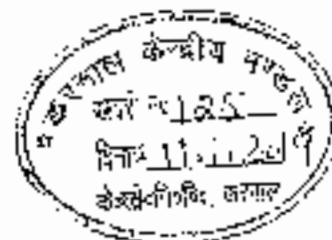
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The Executive Engineer (Civil)
CPWD, Karnal Central Division
NDRI Campus (Near State bank of India)
Karnal-132001

Tró Executive Engineer (Elect.)
CPWD, 206-PHSHHC Sector-3
Karnal:



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Reference: This office letter No. CC/3527/816/5365 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. HC (Estate & Construction)

Copy to:

- | | | |
|----|---|---|
| 1. | Dean (P&O) for information please | 1 |
| 2. | A.E. (Civil) | 1 |
| 3. | A.E. (Civil) CHWD | |
| 4. | A.E. (Elect), CHWD | 2 |
| 5. | SS to Registrar for acknowledgment of the Register of Work | |
| 6. | SS to Director, L&R for information of the Health Inspector | |

[illegible]