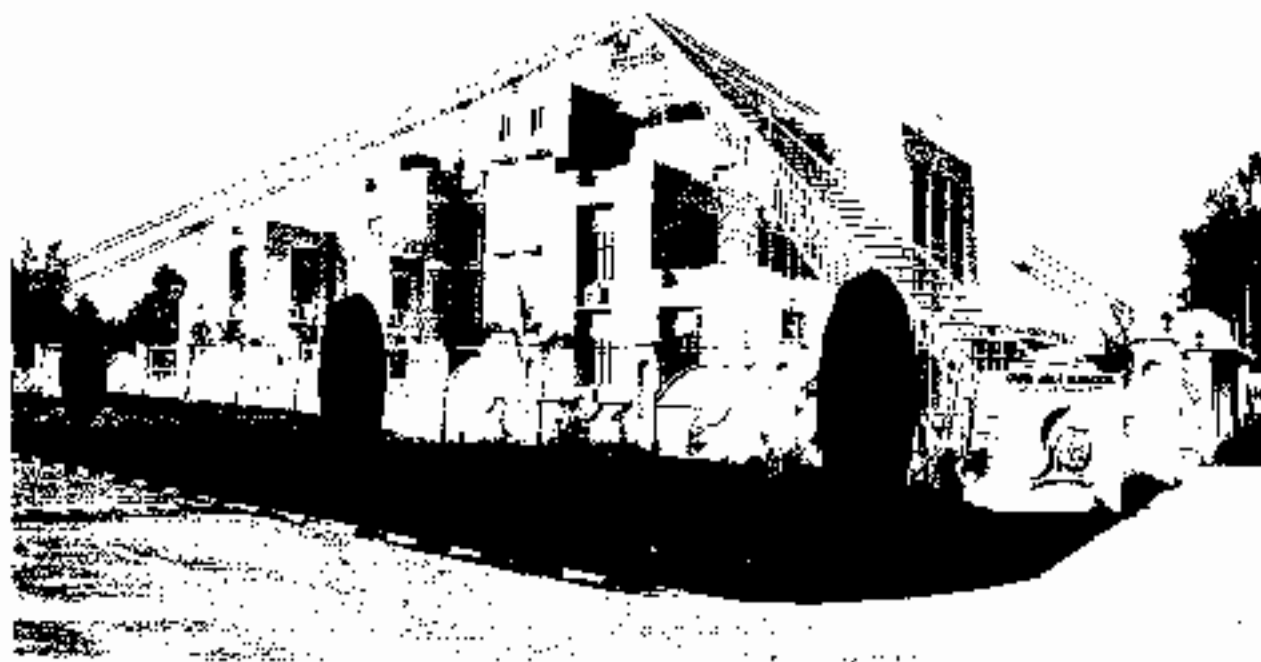




**AGENDA FOR 22nd
MEETING OF BUILDING &
WORKS COMMITTEE
September 19, 2016**



**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

AGENDA FOR 22ND MEETING OF BUILDING & WORKS COMMITTEE

VENUE : BOARD ROOM
GOLDEN JUBILEE ADMINISTRATIVE BUILDING
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

DAY : Monday

DATE : 19.09.2016

TIME : 11 00am

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

ITEM NO.	CONTENTS DESCRIPTION	PAGES
22.1	To confirm the minutes of 21 st meeting of Building & Works Committee held on 27.5.2016	7-8
22.2	To report the action taken on the minutes of the 21 st meeting of the Building & Works Committee held on 27.5.2016	9-15
22.3	To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure Ground Floor+5) at NIT Kurukshetra	16-41
22.4	To consider and approve the Revised Cost estimate for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students (research scholars and married PG Students) (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra	42-63
22.5	To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT Kurukshetra	64-85
22.6	To consider and approve the Revised Cost estimate for various re-carpeting of roads a) from main approach road to Guest House and around Guest House b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No 7&8 c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK	84-101
22.7	To consider and approve the Revised Cost estimate for Widening of Institute road from Kinnich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT Kurukshetra	102-114
22.8	To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at NIT Kurukshetra	115-141
22.9	To consider and approve the Revised Cost estimate for Replacement of CI/AC water supply lines with centrifugally cast (Sound) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra	142-172
22.10	To consider and approve the Revised Cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute	173-186
22.11	Any other item	

1.	Prof. V.K. Arora Director National Institute of Technology Kurukshetra	Chairman
2.	Nominee of the Central Government On the B & VC of the Institute (to be nominated by the MHRD) Through Director (NITs) Dept. of Higher Education MHRD - Shashi Bhawan New Delhi 110002	Member
3.	Shri K.N. Rai Former Chief Executive & Advisor, Ministry of Defence (DRDO) C-4, 41/2 Vasant Kunj New Delhi	Member
4.	Prof. V.K. Sehgal Dean (Planning & Development) National Institute of Technology Kurukshetra	Member
5.	Er. R.K. Sao Superintending Engineer (Electrical) Chandigarh Electrical Central Circle, CPWD, Chandigarh	Member
6.	Er. Mahender Pal Singh Superintending Engineer Chandigarh Central Circle CPWD, 2nd Floor, Kanya Sadan Sector-9A Chandigarh	Member
7.	Prof. Arun Goel Dean (E-Stat) National Institute of Technology Kurukshetra	Special Invitee
8.	Prof. V. P. Singh Prof. in charge (E-Stat & Construction) National Institute of Technology Kurukshetra	Special Invitee
9.	Prof. Saurabh Chanana Prof. in Charge (E-Stat. Mtg) National Institute of Technology Kurukshetra	Special Invitee

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

Special Invitee

11. **Sh. G R. Samantaray**
Registrar-Incharge
National Institute of Technology,
Kurukshetra

Member-Secretary

Item 22.1 To confirm the minutes of 21st meeting of Building & Works Committee held on 27.5.2016.

The minutes of the 21st meeting of Building & Works Committee held on 27.5.2016 were circulated amongst the members vide letter No. NIT/21st BWC/4793 dated 03.06.2016. No comments were received from any member. The minutes are enclosed as Annexure -1 from page 1 to 7.

The minutes may please be confirmed.

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

Minutes of the 21st meeting of the Building & Works Committee, National Institute of Technology, Kurukshetra held on 27th May, 2016 at 11.00 AM in the Board Room of Golden Jubilee Administrative Building of NIT, Kurukshetra

The following were attended

- | | | |
|----|---|----------|
| 1. | Prof. Anand Mohan
Director
National Institute of Technology
Kurukshetra | Chairman |
| 2. | Shri A. K. Singh
Under Secretary (NITs)
Nominee of the Central Government
On the B&WC of the Institute
Deptt. of Higher Education
M.H.R.D., Shastri Bhawan
New Delhi-110005 | Member |
| 3. | Shri K. N. Rai
Former Chief Executive & Advisor
Ministry of Defense (DRDO)
C-4, 4112, Vasant Kunj
New Delhi | Member |
| 4. | Prof. V.K. Sehgal
Dean (Planning & Development)
National Institute of Technology
Kurukshetra | Member |
| 5. | En. R. K. Saxi
Superintending Engineer (Electrical),
Chandigarh Electrical Central Circle, CPWD
Kendriya Sadan, Sector-3A
Chandigarh | Member |
| 6. | En. Mahender Pal Singh
Superintending Engineer (Civil),
Chandigarh Central Circle CPWD
Kendriya Sadan, Sector-3A
Chandigarh | Member |

- | | | |
|-----|---|------------------|
| 7. | Prof. Arun Goel
Dean (Estate,
National Institute of Technology
Kurukshetra | Special Invitee |
| 8. | Dr. Saurabh Chandra
Prof. in- Charge (Electrical Maintenance)
National Institute of Technology
Kurukshetra | Special Invitee |
| 9. | Er. S.N. Kaushik,
Assistant Engineer (Civil)
National Institute of Technology
Kurukshetra | Special Invitee |
| 10. | Shri G. R. Samantaray
Registrar in-charge
National Institute of Technology
Kurukshetra | Member-Secretary |

Prof. V. P. Singh, Professor in-Charge (Estate & Construction), Special Invitee on Building & Works Committee NIT, Kurukshetra could not attend the meeting.

Before the start of the deliberations, the Honble Director and Chairman Building & Works Committee welcomed all the members present in the meeting and expressed his gratitude to Shri K. N. Rao, Former Chief Executive & Advisor, Ministry of Defense (DRDO) & Shri A. K. Singh, Under Secretary (NITs), Technical Education, MHRD New Delhi for sparing their valuable time to attend the meeting. At the outset, the Chairman B&WC informed the decision of 31st meeting of Finance Committee that in future the major works of B&WC are to be placed as a separate agenda item in Finance Committee. He also proposed that from now onwards the B&WC meeting should be held regularly on quarterly basis in future.

The Building & Works Committee decided the following on the various agenda items of the meeting:

- 21.1 To confirm the minutes of 20th meeting of Building & Works Committee held on 6.1.2015.

The minutes of the 20th meeting of Building & Works Committee held on 6.1.2015 circulated amongst the members vide letter No. N.T/20th B&W/1042 dated 17.3.2015 were confirmed.

- 21.2 To report the action taken on the minutes of the 20th meeting of the Building & Works Committee held on 6.1.2015.

The B&WC noted the action taken on minutes of the 20th meeting of the Building & Works Committee held on 6.1.2015. The following points were discussed on the action taken report:

- Item No. 19.1 CPWD is yet to take action.
- Item No. 19.2 (16.4) it was resolved that the Superintending Engineer (Elect.) CPWD will provide reasons for non-submission of final utilization certificate.
- Item 19.2 (16.10 & 16.11) Superintendent Engineer (Elect.) (CPWD) assured the Committee that the said works are in progress and shall be completed by 15.7.2016.
- Item No. 19.2 (16.14 & 16.15) final inspection has been carried out by N.T. Kurukshetra and defects pointed out by inspection committee were already conveyed to CPWD for rectification. The Superintending Engineer (Elect.) assured that CPWD will remove the defects by 30th June, 2016 under intimation to the Institute.
- Item 19.2 (Item 17.5) Executive Engineer (Civil) CPWD informed that the tender has been floated and will be opened on 30th of May 2016 and completion time is three months.
- Item 19.4 the defects pointed out by Inspection Committee were communicated to CPWD for rectification. The Superintending Engineer (Elect.) CPWD informed that defects will be removed by 15th of June 2016 positively.

- Item No. 19.4, the Superintending Engineer (Civil) CPWD informed that the revised estimate will be submitted by 10.6.2016.
- Item No. 19.6 the Executive Engineer (Civil), CPWD informed that the work has been awarded and is in progress and discussed regarding cutting of trees coming in the path of boundary wall. After detailed deliberation, it was resolved that the boundary wall should be taken inside if site condition forces to do so in order to complete the work in time. In case a tree is coming in alignment of the wall the wall may be taken around the tree.
- Item 19.10 estimates be reviewed in detail and then submitted to CPWD for re-estimation, if required.
- Item 19.11 it was resolved that feasibility of providing of periphery road of six feet width along the boundary wall of the Institute be decided by CPWD as it is a mandatory requirement from safety point of view.
- Item 20.5 Superintending Engineer (Civil) CPWD informed that work of STP will be completed by 30th of June, 2016.

21.3 To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

It was noted by the committee that the building is more or less complete and it was observed that the stage of submitting PRELIMINARY REVISED ESTIMATE was over. Therefore, it was decided that CPWD should submit a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost so that appropriate action can be taken. The same should be done by 10th June positively.

21.4 To consider and approve the Revised Cost estimate for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The B&AC deliberated on the matter and resolved that a realistic revised cost estimate be prepared and submitted by CPWD with full justification for increase in cost positively by 10th Jun 2016.

- 21.5 To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 86 bearers at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2016.

- 21.6 To consider and approve the Revised Cost estimate for various re-carpeting of roads:

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 1&2
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
- d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

- 21.7 To consider and approve the Revised Cost estimate for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

- 21.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at -NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016.

- 21.9 To consider and approve the Revised Cost estimate for Replacement of CPAC water supply lines with centrifugally cast (Spun) iron pipe Class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with justification and same be put up before the next meeting of Building & Works Committee for further consideration.

- 21.10 To consider and approve the Cost estimate for furnishing floor with tiles in the common room, Dining hall, warden Office and MMCA office in the Boys Hostel No. 1-5 and Girls Hostel No. 1 at NITK.

The B&WC deliberated on the matter and resolved that this item be deferred.

- 21.11 To consider and approve the cost estimate for 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 at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the cost estimate for 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 at NIT, Kurukshetra for an amount of Rs 32.54,800/-.

- 21.12 To consider and approve the Revised Cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

The B&WC deliberated on the matter and decided that the CPWD will submit realistic cost estimate with justification and the same be put up in next Building & Works Committee meeting for further consideration.

- 21.13 To consider and approve the Cost Estimate for Providing Kitchen Equipments in 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the revised cost estimate of providing equipments for modular kitchen in 600 seater Girls

Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra for an amount of Rs 1,18,26,927.

21.14 Any other item

Under any other item, it was resolved that an external Technical Committee may be constituted to consider and examine the cost estimates of the completed / on-going works submitted by CPWD with Justification. These estimates will be put up to the next Building & Works Committee for further consideration.

It was also resolved that the CPWD will submit the realistic completion cost of the works mentioned as agenda items 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9 & 21.12 with justification by 10.06.2016 for all the projects to Dean (Estate). Further, Dean (Estate) will submit the justification for increase in scope of the works of above mentioned projects by 01.06.2016.

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

E. Prasad
Registrar I/O & Member Secretary
Building & Works Committee,
NIT, Kurukshetra

Authenticated

[Signature]

Director &
Chairman, Building & Works Committee
NIT, Kurukshetra

07/6/16

Item No. 22.2 To report the action taken on the minutes of the 21st meeting of the Building & Works Committee held on 27.5.2016

The action taken on the minutes of the 21st meeting of the Building & Works Committee held on 27.5.2016 is as under:

Item No.	Subject	Decision taken	Action taken
21.1	To confirm the minutes of 20 th meeting of Building & Works Committee held on 6.1.2015	The minutes of 20 th meeting of Building & Works Committee held on 6.1.2015 circulated amongst the members vide letter No. NIT/20 th BWC/1042 dated 17.3.2015 were confirmed	No further action is required
21.2	To report the action taken on the minutes of the 20 th meeting of the Building & Works Committee held on 6.1.2015	The B&WC noted the action taken on minutes of the 20 th meeting of the Building & Works Committee held on 6.1.2015. The following points were discussed on the action taken report: Under Item No. 19.1 CPWD is yet to take action	Informed by CPWD vide letter No. 54/NIT/KCD/2016/3613 dated 6.9.2016 that clause 17 already exist in the general condition of the contract regarding contractor liable for damages, defects during the defect liability period
		• Item No. 19.2 (16.4) it was resolved that the Superintending Engineer (Elect.) CPWD will provide reasons for non-submission of final utilization certificate	Reply has been received from CPWD through letter No.20(38)/CPWD/2015-16/1282 dated 5.7.2016.
		• Item 19.2 (16.10 & 16.11) Superintendent Engineer (Elect.) (CPWD) assured the Committee that the said works are in progress and shall be completed by 15.7.2016	CPWD intimated vide letter No. CC/363/4928 dated 16/17.5.2016. The work is in progress and it is not completed yet.

& 15 IS) final inspection has been carried out by M.T. Kurukshetra and defects pointed out by inspection committee were already conveyed to CPWD for rectification. The Superintending Engineer (Elect.) assured that CPWD will remove the defects by 30th June, 2016 under intimation to the Institute.

- Item 18.2 (Item 17.6), Executive Engineer (Civil), CPWD informed that the tender has been floated and will be opened on 30th of May, 2016 and completion time is three months.

The work has been awarded to the contractual agency by CPWD vide letter No. 54(NIT)/KCD/2016/2405 dated 13.6.2016 and the work is in progress.

- Item 18.7 the defects pointed out by Inspection Committee were communicated to CPWD for rectification. The Superintending Engineer (Elect.) CPWD informed that defects will be removed by 15th of June, 2016 positively.

The CPWD has been informed vide letter No. CC/363/4918 dated 16/17.6.2016. No compliance has been received from CPWD.

- Item No. 19.4, the Superintending Engineer (Civil) CPWD informed that the revised estimate will be submitted by 10.6.2016.

The CPWD has been informed vide letter No. CC/361/4919 dated 16/17.6.2016.

- Item No. 19.6 the Executive Engineer (Civil), CPWD informed that the work has been awarded and is in progress and discussed regarding cutting of trees coming in the path of boundary wall. After detailed deliberation, it was resolved that the boundary wall should be taken inside of site.

The trees which were lying in the line of boundary wall have been removed by the forest department. Accordingly it has been intimated to CPWD vide letter No. /3523/402/5231 dated 4.7.2016 to complete the work within already conveyed A/A & E/S of the work.

to complete the work in time. In case a tree is coming in alignment of the wall the wall may be taken around the tree.

- Item 19.10 estimates be reviewed in detail and then submitted to CPWD for re-estimation, if required.

Estimates received from the CPWD are discussed in EAC meeting held 11&12.8.2016 and resolved that estimates need revision due to higher cost according to expert opinion of Shri. K.N.Rai.

- Item 19.11 it was resolved that feasibility of providing of peripheral road of six feet width along the boundary wall of the Institute be explored by CPWD as it's a mandatory requirement from safety point of view.

A letter has been written to CPWD vide No. CC/360/4920 dated 16/17.6.2016.

- Item 20.5 Superintending Engineer (Civil), CPWD informed that work of STP will be completed by 30th of June 2016.

A letter has been written to CPWD vide No. CC/355/4924 dated 16/17.6.2016. Further no information regarding completion of work has been received from CPWD so far.

21.3	To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.	It was noted by the committee that the building is more or less complete and it was observed that the stage of submitting PRELIMINARY REVISED ESTIMATE was over. Therefore, it was decided that CPWD should submit a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost so that appropriate action can be taken. The same should be done by 10 th June positively.	CPWD submitted a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost. The same was put up before External Technical Committee Meeting held on 13.6.2016. The Committee discussed and found that the revised estimate submitted by CPWD is in order. The committee recommends for ex-post facto approval of the competent authority.
21.4	To consider and approve the Revised Cost estimate for construction of 300 Seator Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.	The B&WC deliberated on the matter and resolved that a realistic revised cost estimate be prepared and submitted by CPWD with full justification for increase in cost, positively by 10 th Jun 2016.	CPWD submitted a realistic revised cost estimate with full justification for increase in cost. The same was put up before External Technical Committee Meeting held on 13.6.2016. The Committee discussed & found that the realistic revised cost estimate submitted by CPWD is in order and recommends for its approval of the competent authority.
21.5	To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra.	The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10 th Jun 2016.	CPWD submitted final completion cost of construction with detailed justification. The same was put up before External Technical Committee meeting held on 13.6.2016. The committee discussed and found that the final cost of construction submitted by CPWD is in order and recommends for its approval by the

			competent authority
21.6	To consider and approve the Revised Cost estimate for various re-carpeting of roads: a) From main approach road to Guest House and around Guest House. b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8. c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra. d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.	The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2016.	The Institute conveyed change in scope of work to CPWD accordingly CPWD submitted the final completion cost with justification for increase in cost. The same was put up before the External Technical Committee Meeting held on 13.6.2016 the committee discussed and found that the final cost submitted by CPWD is in order and recommends for its approval of the competent authority
21.7	To consider and approve the Revised Cost estimate for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.	The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.	The Institute conveyed change in scope of work to CPWD accordingly CPWD submitted the final completion cost with justification for increase in cost. The same was put up before the External Technical Committee Meeting held on 13.6.2016 the committee discussed and found that the final cost submitted by CPWD is in order and recommends for its approval of the competent authority
21.8	To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at -NIT, Kurukshetra.	The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016	CPWD submitted realistic cost with detailed justification. The same was put up before External Technical Committee Meeting held on 13.6.2016 the committee discussed and found that the realistic

			cost submitted by CPWD is in order and recommends for its approval of the competent authority
21.9	To consider and approve the Revised Cost estimate for Replacement of CI/AC water supply lines with centrifugally cast (Spun) iron pipe Class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.	The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with justification and same be put up before the next meeting of Building & Works Committee for further consideration.	CPWD submitted realistic cost with justification. The same was put up before External Technical Committee Meeting held on 13.6.2016 the committee discussed and found that the realistic cost submitted by CPWD is in order and recommends for its approval of the competent authority
21.10	To consider and approve the Cost estimate for furnishing floor with tiles in the common room, Dinning hall, warden Office and MMCA office in the Boys Hostel No. 1-5 and Girls Hostel No. 1 at NITK	The B&WC deliberated on the matter and resolved that this item be deferred.	Deferred
21.11	To consider and approve the cost estimate for 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 at NIT, Kurukshetra.	The B&WC deliberated on the matter and approved the cost estimate for 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 at NIT, Kurukshetra for an amount of Rs.32,54,600/-.	B&WC approved the cost estimate which further requires the approval of FC & BOG.
21.12	To consider and approve the Revised Cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations in	The B&WC deliberated on the matter and decided that the CPWD will submit realistic cost estimate with justification and the same be put up in next Building	CPWD submitted realistic cost estimate with justification. The same was put up before External Technical Committee Meeting held

	the Institute.	& Works Committee meeting for further consideration.	on 13.6.2016 the Committee discussed and recommends that this item may be put up before the next B&WC.
21.13	To consider and approve the Cost Estimate for Providing Kitchen Equipments in 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra.	The B&WC deliberated on the matter and approved the revised cost estimate of providing equipments for modular kitchen in 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra for an amount of Rs.1,18,28,927/-.	B&WC approved the cost estimate which further requires the approval of FC & BOG.
21.14	Any other item:	Under any other item, it was resolved that an external Technical Committee may be constituted to consider and examine the cost estimates of the completed / on-going works submitted by CPWD with Justification. These estimates will be put up to the next Building & Works Committee for further consideration. It was also resolved that the CPWD will submit the realistic/completion cost of the works mentioned as agenda items 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9 & 21.12 with justification by 10.06.2016 for all the projects to Dean (Estate). Further, Dean (Estate) will submit the justification for increase in scope of the works of above mentioned projects by 01.06.2016	Meeting of External Technical Committee was held on 13.06.2016 in the Institute to discuss the realistic/completion cost of completed/ongoing construction works. After detailed discussion and deliberations, the Committee recommends that the ex-post facto sanction of completed/ongoing construction works in accordance with the estimates submitted by CPWD are in order. However, the Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction primarily because CPWD took contract action based on estimates given by NIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

Item No.22.3 To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

The administrative approval and expenditure sanction for the work of construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra was conveyed to CPWD for amounting to Rs. 4899.00 lacs vide letter no.CC/18/95 dated 07/08.01.2013. Accordingly, tenders were invited by CPWD and work was awarded to the contractual agency for execution by CPWD vide letter No. 54(NIT)/KCD/2014/4 dated 04.06.2014 with a time limit of 630 days. The actual date of start of work was 7.6.2014 and the stipulated date of completion was 6.3.2016. Thereafter, the CPWD submitted the preliminary revised cost estimate through Chief Engineer (NZ-I), CPWD, Chandigarh for an amount of Rs. 67,46,52,700/- vide letter no. 23(390)SE(P)/CE(P)/2212 dated 21.12.2015. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

"It was noted by the committee that the building is more or less complete and it was observed that the stage of submitting PRELIMINARY REVISED ESTIMATE was over. Therefore, it was decided that CPWD should submit a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost so that appropriate action can be taken. The same should be done by 10th June positively".

In the light of the decision of 21st Building & Works Committee, the CPWD was informed vide letter No. CC/314/4704 dated 1.06.2016 to submit the completion/realistic cost with justification for various works executed by CPWD at NIT, Kurukshetra. In response to the above letter the CPWD submitted the detailed justification (vide letter no. 20(142) PS/KCD/2016/2379 dated 10.6.2016 (copy enclosed) and also stated in the same letter that the revised preliminary estimate of Rs. 67,46,52,700/- has already been submitted by Chief Engineer (CPWD) vide letter No. 23(390)SE(P)/CE(P)/2212 dated 21.12.2015. It was put up before the External Technical Committee meeting held on 13.6.2016 in the Board Room of

Committee discussed the revised estimate in detail and decided as under.

"As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,29,38,441/- "

In response to above decision of the Technical Expert Committee a letter No. 23(390)/CH(P)/EE(P)/4121 dated 14.7.2016 was received from Chief Engineer, CPWD, Chandigarh stating that the work has physically been completed. The necessity for revision of the estimate has duly been explained through their letter under reference and the Revised Preliminary Estimate has been prepared based on the norms approved by GOI prescribed in CPWD works Manual para 40.2.1. It is further intimated that the total completion cost of the project is Rs. 63.3 crores. Therefore, the RPE may be restricted upto the actual cost of completion i.e. Rs. 63.3 crores. The same letter was put up in the EAC meeting held on 11.08.2016 & 12.08.2016 and it was resolved that the same may be put up before the ensuing E&WC meeting.

The Building & Works Committee may consider and approve the revised cost estimate for an amount of Rs. 63,29,38,441/- (approx Rs. 63.3 crore) which is actual cost of completion for the work of construction of 200 seater Girls Hostel (Multi Storied Framed Structure Ground Floor (G)) at NIT, Kurukshetra.

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CC/ 18/45

Dated: 07/01/2012

The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
44B, Subhash Colony
Karnal

Subject:- Administrative approval & Expenditure sanction for the
Construction of 500 Seater Girls Hostel (Multi-Storeyed
Framed Structure, Ground Floor+5) at NITK

Reference:- MoU dated 20.12.2012 & approval of the Hon'ble Director on dated
04-01-2013.

The administrative approval and expenditure sanction is hereby
conveyed for the execution of the following work with the estimated amount as
under:-

Sr. No.	Name of Work	Amount REC (Rs. In Lacs)
1.	Construction of 500 Seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NITK	Rs. 4588.00 (Rs. Four Thousand Five Hundred Eighty Nine Lacs Only)

Dean (Estate)
For Director

Copy to:

1. SE to Director for the kind information of the Hon'ble Director
2. Chief Engineer (N2-I), Chandigarh CPWD, Kendrya Sadan, Sector-4
CPWD Chandigarh
3. SE (Elect.) Chandigarh Central Electrical Circle, Kendrya Sadan, Sector-4
CPWD Chandigarh
4. SE (Civil) Chandigarh Central Circle, Kendrya Sadan, Sector-4, CPWD,
Chandigarh
5. Executive Engineer (Elect.) Central Public Works Department, Karnal
Central Electrical Division, 20 A Indira Colony, Karnal-132001
6. Registrar
7. Prof. R.C. B. & C.
8. Prof. R.C. (FME)
9. Prof. (Arch)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect)
13. J.E. (Civil)



श्रीमान. श्री. नरेश कुमार
आर. टी. ए. नगर, दिल्ली-110025
नगर एवं ग्रामीण विकास विभाग

दृष्टि

पदक पत्र

श्रीमान. श्री. नरेश कुमार, ए

नगर एवं ग्रामीण विकास विभाग

M/s Swasthi Civil Infrastructure Pvt. Ltd.
A-2, DLF, Lower Phase,
Gurgaon, New Delhi-110025

C/o 603 Sector Girls Hostels (Multi Storeyed) RCC framed structure
(Ground + 5) i/c internal & external Water Supply, Sanitary installation,
Internal Electrical Installations, Drainage & Development of site at NIT,
Kurukshetra (Haryana)

हम आपको यह पत्र लिख रहे हैं कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि

आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि

Civil Work

Original Tendered amount Rs. 72,87,80,551/-
Percentage against E.C. Rs. 31,18,78,111/- per cent tender 42.77% above (42.77%)

Electrical Work

Original Tendered amount Rs. 13,16,76,410/-
Percentage against E.C. Rs. 11,17,46,163/- per cent tender 84.77% above (84.77%)

Composite

1. Net per cent of composite tendered (42.77%)
2. Composite E.C.P. Rs. 30,00,00,000/-
3. Percentage against E.C. Rs. 30,00,00,000/- per cent tender 42.77% above (42.77%)

आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि

आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि
आपकी कंपनी द्वारा निर्धारित किया गया है कि आपकी कंपनी द्वारा निर्धारित किया गया है कि

Preliminary Estimate for construction of 600 seater Girls Hostel

On plinth area rates as per CPWD

(Multi-Storeyed framed structure)

(Ground Floor - 5 storeyed)

1. Total plinth area for 600 seater hostel for girls, including circulation area, sanitary, Electrical provisions, Dining space, Kitchen, common Room, library, magazine, Canteen, offices, guest room & residences for wardens etc 25760 sqm

CPWD plinth area rates as per CPWD 2007

i)	RCC framed structure, 1000 sqm	Rs	9120/-
ii)	RCC flat slab system, Ground Floor only	Rs	3640/-
iii)	Free Plinth	Rs	300/-
		Total	12960/- (25%)
			16200 sqm

Total Cost = 25760 x 13200 = 33672000

2. Services :-

i)	main water supply and sanitary installations @ 100/-	Rs	35000/-
ii)	External Sewerage @ 50/-	Rs	10000/-
iii)	Internal electrical installations @ 100/-	Rs	45000/-
	Total		90000/-

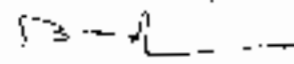
3. Allied works such as lifts, back up power supply, Sub-Station, Furn. Lamps, etc

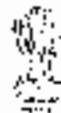
i)	Lifts 4 nos @ 13 passengers 854 kg. All 100000/-	Rs	400000/-
		Rs	80000/-
ii)	Stand by power supply (D/G) Sets	Rs	150000/-
iii)	Electric Sub-Station	Rs	250000/-
iv)	Furniture for Hostel, all day Dining Hall, Kitchen etc	Rs	750000/-
	Total		2000000/-

Grand Total = 33672000 + 90000 + 2000000 = 36672000

5% contingencies Rs 1833600

Total 38505600


Executive Engineer
VH, Karaikal



949

20/12/12

भारत सरकार

GOVERNMENT OF INDIA
राष्ट्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

आदेश संख्या: 20/12/12
दिनांक: 20/12/12

सामान्य भूतल अभियान (अ) - 1
राष्ट्रीय लोक निर्माण विभाग,
भारत सरकार, नई दिल्ली-110001



भारतीय लोक निर्माण विभाग
भारत सरकार, नई दिल्ली-110001

संख्या: 23(330)/अभियान(चौक)/कागज अभियान(गए)/ 22-12

दिनांक: 20/12/12

सेवा में,

निदेशक,

एन आई सी,

भुवनेश्वर, हरियाणा।

NIT (PRT), PIZ (SAC) Director (F & C)

GENERAL PIZ (SAC)

विषय: C/o 600 Seater Girls Hostels (Multi Storeyed) RCC framed structure (Ground + 5) at i/c internal & external Water Supply, Sanitary Installation, Internal Electrical Installations, Drainage & Development of site at NIT, Kurukshetra (Haryana).
(Revised Preliminary Estimate).

प्रतिपत्र,

20/12/12

मुझे प्रेषित अभियान के प्रारम्भिक अनुमान एवं तब से संबंधित कि लागत रु. 67,00,000/- लागत शीर्षक अर्थात् शिक्षालय लाइफ लाइन हजार सात, बी. मात्र के अंतर्गत प्रारम्भिक अनुमान को प्रेषित में भेजने का निर्देश हुआ है। कार्य की प्रगति एवं और अनुमान के अंशों को विषय में दर्शाया गया है। अनुमान में कि. कार्य का प्रारम्भ करने का निर्देश भी। निदेशक प्रमाणित एवं निदेश लाया है। सुविधा निम्न लागत।

संलग्न: प्रारम्भिक अनुमान (या इतिहास) को

अभियान अधिकारी (अभियान)

प्रतिनिधि:-

1. अभियान अधिकारी, राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
2. सहायक अभियान अधिकारी, राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
3. अभियान अधिकारी (अभियान), राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
4. अभियान अधिकारी (अभियान), राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
5. अभियान अधिकारी (अभियान), राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
6. अभियान अधिकारी (अभियान), राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।
7. अभियान अधिकारी (अभियान), राष्ट्रीय लोक निर्माण विभाग, नई दिल्ली।

अभियान अधिकारी (अभियान)

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE : HARYANA DIVISION : KARNAL PROJECT : D.D. NO. : DATE :

Name of work:- C/o 600 Seater Girls Hostels (Multi-Storeyed) RCC framed structure (Ground + 5) i.e. internal & external water supply, Sanitary installation, internal electrical installation, drainage & development of site at NIT, Kurukshetra (Haryana).

Major Head Minor Head Detailed Head

This Revised preliminary estimate framed by E. V. Lakshmi, Executive Engineer, Karnal Central Division, CPWD, Karnal, further processed by E. R. K. Garg, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh and further processed by E. A. P. Garg, Executive Engineer (P), C/o CENZ-1, CPWD, Chandigarh for the probable cost of Rs. 67,46,52,700/- including 3% contingency.

REPORT

HISTORY: This Revised preliminary estimate amounting to Rs. 67,46,52,700/- i.e. 3% contingency has been framed to cover the probable cost of the above noted work and for second of revised A/A & E/S from the competent authority. The requirement for this estimate has been received from NIT authorities vide their letter No. CC/25/2095/4743 dated 31.08.2015. The revision is required due to the fact that the total A/A & E/S amounting to Rs. 4889 lacs earlier issued by NIT authorities vide their letter No. CC/16 dated 17.01.2012 was based on preliminary estimate prepared by them over based on PAF 2001 only whereas by 25% for cost index does not include Service Tax. CPWD being the Employer, Employer has to reimburse the same to the contractor executing the work. Also there is a inflation increase in cost of material & labour during the period between receipt of estimate A/A & E/S & start of work. The tender for this work was finalized in May, 2014. Hence Revised preliminary estimate has been framed based on PAF-2012 duly enhanced with approved cost index as on 31-07-2014 & including Service Tax to cover the revised A/A & E/S from the competent authority.

Design & Scope: The following changes have been made in the estimate:

(a) CIVIL WORK

1. RCC framed structure upto six storeys
2. RCC raft foundations
3. Resisting earthquake forces
4. Internal water supply & sanitary installations and external service connections
5. Furniture work
6. Boundary wall

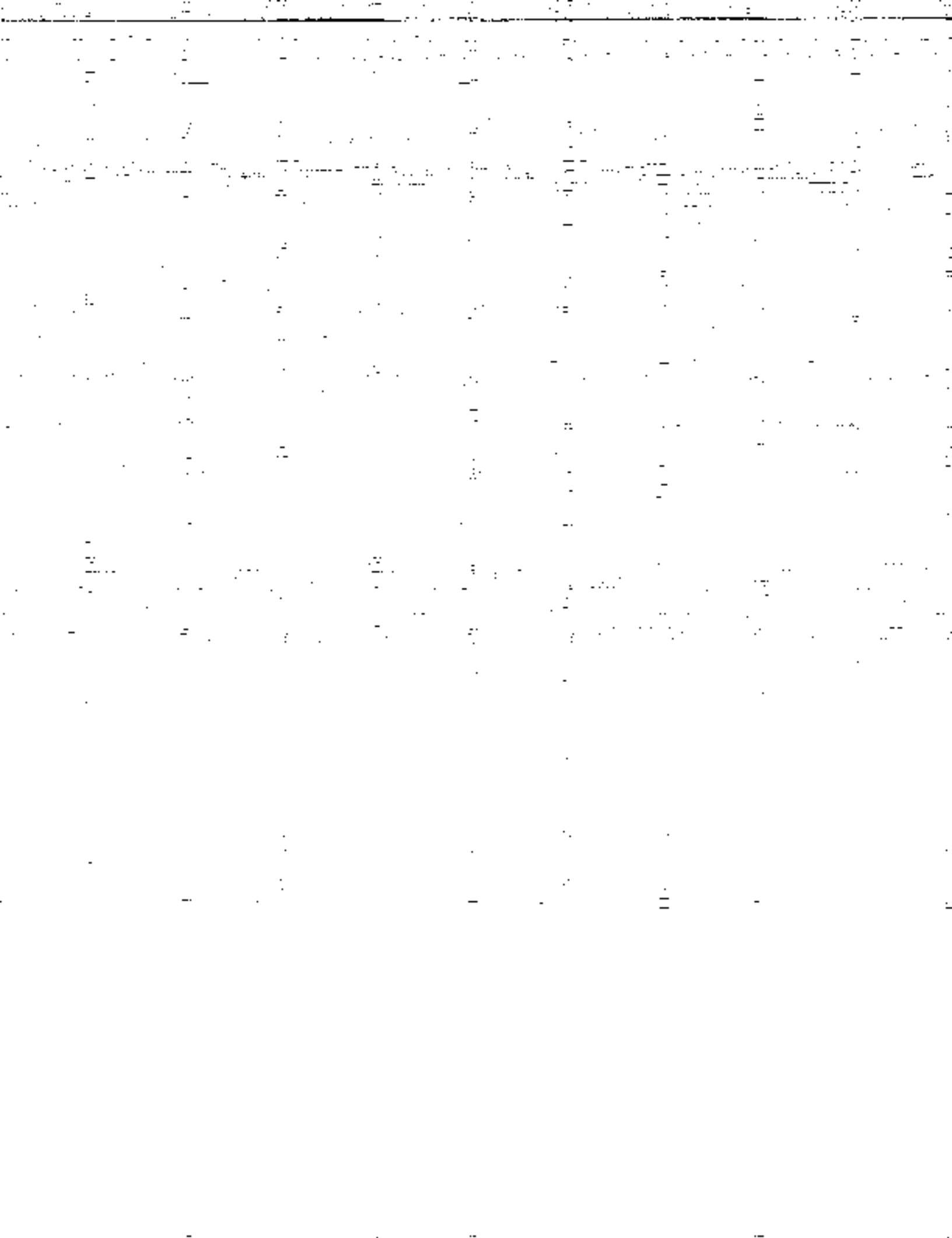
(b) ELECTRICAL WORK

1. Fire lighting
2. Automatic fire alarm system
3. External Service connection
4. Internal Electrical installation
5. Telephone conduits Computer cabling
6. Aline works such as Pfs, backup power supply, sub station, fund re of
7. Solar Water Heating System

Specifications The work shall be carried out as per CPWD specification 2003 and shall be
with note date correction 5.05
Rate: Based on RAB 2012 duly enhanced with approved cost index till as on
17-2014
Amount: Rs. 67,46,52,700/- (67.46 crore) contingencies
T&P Shall be charged by contractor
W.C.Estt.: Shall be met out of contingencies
Land: Available
Method: By contract after call of tenders.
Time allowed: 60 days after stipulated date of start


Assistant Engineer (P)
CPWD, Chandigarh.


Executive Engineer (P).
CPWD, Chandigarh.



.....

• **Job Work:** Civil SBU Sector Girls Hostel, (Multi-Storeyed) RCC framed structure (Ground + 5) for internal & external water supply, Sanitary installation, electrical installation, drainage & development of site at N^o1, Kurukshetra (Haryana)

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1000


 AMERICAN CHEMICAL SOCIETY
 11 Dupont Circle, N.W.
 Washington, D.C. 20036

1. **Author:** [Name]
 2. **Title:** [Title]
 3. **Journal:** [Journal]
 4. **Volume:** [Volume]
 5. **Issue:** [Issue]
 6. **Page:** [Page]

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202-221-0000

4142

Description of Items	Unit	Original Estimate		Revised Estimate		Remarks
		Qty.	Rate Amount	Qty.	Rate Amount	
As per P&ID & Bill given by client repd.			PAE 2007		PAE 2012	

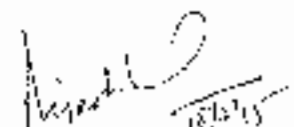
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ABSTRACT OF COST

Name of work:- C/o 600 Seater Girls Hostels (Multi-Storeyed) RCC framed structure (Ground + 5) i/c internal & external water supply. Sanitary installation, internal electrical installation, drainage & development of site at NIT, Kurukshetra (Haryana). SH: C/o Boundary wall & Guard room

Sr.No.	Description	Amount
1	Annexure-A	2828140.00
2	Annexure-B	507593.00
		3335733.00


Assistant Engineer(P)
CPWD, Chandigarh


Executive Engineer(P)
CPWD, Chandigarh

ABSTRACT OF COST

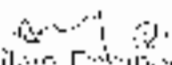
Page 2 of 2

Item of work:- On 803 Sreter Girls Hostels (Multi-Storeyed) RCC framed structure (Ground + 5th floor) internal & external water supply, Sanitary installation, internal electrical installation, drainage & development of site at NH, Kurukshetra (Haryana). SH On Boundary wall & Guard room.

Item No.	DSR Item	Description of Items	Qty	Unit	Rate	Amount
2.1	2.1	Earth work in excavation by mechanical means (hydraulic excavator) & manual means in foundation trenches & drains not exceeding 1.5 m in width or 10 sqm in plan including dressing of sides and trimming of bottoms, up to 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a limit of 30 m.				
2.1.1	2.1.1	A. Kind of soil	315	cum	157.00	49455.00
4.1	4.1	Providing and laying in section cement concrete of specified grade excluding the cost of cement and shuttering. All work up to pnd level.				
4.1.10	4.1.10	1:5 (1 part cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	97	cum	500.00	48500.00
4.1.11	4.1.11	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size)	33	sqm	239.00	7887.00
4.1.12	4.1.12	Applying a coat of red dust petroleum bitumen of grade of 40-10 of approved quality using a trowel per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	15	sqm	150.00	2250.00
5.1	5.1	Brick work with common burnt clay F.P.S. (non modular) including dress construction 7.5 m foundation and plinth				
5.1.1	5.1.1	Common mortar 1:5 (1 cement : 5 coarse sand)	100	cum	407.15	40715.00
5.1.2	5.1.2	Brick work with common burnt clay modular bricks of class designation 7.5 m exposed brick work including making horizontal and vertical grooves 16mm wide 12 mm deep concrete in cement mortar 1:6 (1 cement : 6 coarse sand)				
5.1.2.1	5.1.2.1	From ground level upto plinth level	103	cum	7559.35	778491.00
5.1.2.2	5.1.2.2	Above plinth level upto floor level	105	cum	5218.15	547905.00
5.2	5.2	Providing and fixing 30mm thick glass cut mirror polished pretempered and prepanesed machine cut for kitchen platforms, vanity counters, window sills, facias and similar applications of required size of approved shade colour glass to be done in 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints filled with white cement mixed with matching pigment epoxy touch ups, including rubbing, cutting, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
5.2.1	5.2.1	Red sand stone 30 mm thick				
5.2.1.1	5.2.1.1	Wear & slip up, 10 mm up	120	sqm	1000.00	120000.00

No.	DS Item	Description of items	Qty	Unit	Rate	Amount
10.00		Steel work welded & built up sections of frames etc. including lifting, hoisting, fixing in position and erecting & putting coat of enamel on steel or other painting work, etc. etc. as required				
10.05		For castings, frames, plates, bars, tubes, girders, etc. etc. and similar work				
Total						2,54,624.00
Grand Total						2,54,624.00


 Assistant Engineer
 CPWD, Chandigarh


 Executive Engineer
 CPWD, Chandigarh

ABSTRACT OF COST

Am. 1000000

Range of work : C/o 500 Seater Girls Hostels (Multi-Storeyed) RCC frame structure (5 storey + 50 ft) internal & external water supply, Sanitary installation, internal electrical installation, drainage & development of site at NIT, Kurukshetra (Haryana). SH: C/o Boundary wall & Guard post

Sr. No.	Description of items	Qty.	Unit	Rate	Amount	Remarks
1	LOAD BEARING CONSTRUCTION					
	Height 7.00 mtr (Res. Qtrs. Type- I II)					
1.1	3 Seater Qtrs.)					
1.1	Single storeyed	31	Sq. m	116.74	3617.94	1.16
	SERVICES					
	Internal water supply & sanitary installations					
	Qtr. Type II	335500.00	%	17	4312.50	1.17
2.2	External service connections	334500.00	%	5	1672.50	1.17
	Internal electrical installations (Non					
2.3	residential building)	269200.00	%	12.5	4250.00	1.17
					465682.50	
	Ass. cost index of 9%	465682.00	%	9	41911.41	
					G. Total	507593.90

Assistant Engineer (P)
CPWD, Chandigarh

Executive Engineer (P)
CPWD, Chandigarh

- Item No. 18.4, the Superintending Engineer (Civil) CPWD informed that the revised estimate will be submitted by 10th 2016.
- Item No. 19.6 the Executive Engineer (Civil) CPWD informed that the work has been awarded and is in progress and discussed regarding cutting of trees coming in the path of boundary wall. After detailed deliberation, it was resolved that the boundary wall should be taken inside if site condition forces to do so in order to complete the work in time. In case a tree is coming in alignment of the wall the wall may be taken around the tree.
- Item 19.10, estimates be reviewed in detail and then submitted to CPWD for re-estimation, if required.
- Item 19.11 it was resolved that feasibility of providing of peripheral road of six feet width along the boundary wall of the institute be explored by CPWD as it's a mandatory requirement from safety point of view.
- Item 20.5 Superintending Engineer (Civil) CPWD informed that work of STP will be completed by 30th of June, 2016.

- 21.3 To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

It was noted by the committee that the Listing is more or less complete and it was observed that the stage of submitting PRELIMINARY REVISED ESTIMATE was over. Therefore, it was decided that CPWD should submit a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost so that appropriate action can be taken. The same should be done by 10th June positively.

- 21.4 To consider and approve the Revised Cost estimate for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that a realistic revised cost estimate be prepared and submitted by CPWD with full justification for increase in cost positively by 10th Jun 2016.

$$f_{\text{max}} = 0.001 \int_{-0.5}^{0.5} \frac{1}{1 + 0.001 \cos(2\pi x)} dx$$

iii

The following links are provided:
 a) complete Works Bibliography (1970-1999) (1999)
 b) 1999-2000

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$$k_{\text{max}} = 1000$$

¹ *Journal of the American Statistical Association*, 93(463), 1089-1092.

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केन्द्रीय लोक निर्माण विभाग
कारणाले केन्द्रीय सचल
एच.सी.आर.आर्. वैनगर कारणाले

संख्या- 20(142)/अ. भा.स.पे.अ. 2016/10/3/5
दिनांक 20/05/16

दिनांक 19/05/16

अधीकरण अधिदेशः
एच.सी.आर. वैनगर, पेरिपल्लु,
को.ले. वि.वि., पेरिपल्लु-92,
केन्द्रीय सचल, पेरिपल्लु.

विषय : C/o 600 Seater Girls Hostels (Multi Storeyed) RCC framed structure (Ground + 5) at I/C internal & external water supply, Sanitary installation, internal electrical installation, drainage & development of site at NIT, Kurukshetra (Haryana).

संदर्भ : 21st BWC meeting with NIT authorities on dated 27.05.2016.

During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification and detailed revised cost estimates of the above said work. The revised preliminary estimate has already been submitted by Chief Engineer CPWD vide his office letter no.23/320/अ. भा.स.पे.अ. 2016/अ. भा.स.पे.अ. 2212 दिनांक 21.12.2015 for Rs. 67,12,700/-.

Justification for this work is as detailed below:-

The original preliminary estimate for this work was framed by NIT authorities based on FAR 2007 with cost index 37%. But actually the calculations are not correct as per details in PE of B.L. is 12960-37% = 16900.00 as per this 16900 the cost index is taken 25% only but written as 37%. As per calculation with 37% cost index, it comes out 12960-37% = Rs. 17755.70. And it is also estimated during 2013 the approved cost index was 157 (copy enclosed). While the A/A & E/S amounting to Rs. 4899.00 was conveyed vide letter no.00/18 dated 07.01.2013. So there is a difference of 37% - 25% = 32% while conveying A/A & E/S. And by adding 32% in Rs. 4899.00, it comes out to be Rs. 6467.28 excluding service tax, labour cess, ES and EPF.

Now the detailed estimate amounting to Rs. 55,61,00,441/- (Excluding the Electrical expenditure) is being submitted as per the final bill which is yet to be submitted. The increase in the amount is mainly due to the following reasons:-

1. Increase in the plinth area 21541.00-20760.00=781.00 sqm i.e. 4859 x 781/20760=95.18430 fcs + 32 % cost index = Rs 2.43 crore.
2. There was no provision of pump house, underground water tank & machine room. This has been got executed as per structural drawings and design.
3. Earlier at the time of estimate provision of isolated footing was taken into consideration. But as per structural design, raft foundation was to be provided due to which quantities of earthwork, RCC steel reinforcement and shuttering deviated.

As per structural design the steel reinforcement and RCC quantity exceeded causing an extra cost of Rs. 5.0 crore.

4. As per architectural drawings and the room sample approval, the quantity of cupboard increased, which resulted in an extra cost of Rs 1.20 crore.
5. Granite work and udaipur green marble quantity increased in wall lining, which were provided as per architectural drawing with the approval of the sample also. It resulted in increase of cost of about Rs 1.40 crore.
6. As per architectural drawings, aluminium and stainless steel quantity deviated from the agreement quantity resulting in increase of cost about Rs. 3.20 crore.
7. In flooring item the quantity of kota stone and granite deviated which resulted in increase of cost of about Rs 0.80 crore.
8. Also due to increase in cost of labour and material (cement and steel) i.e. as per 10CA and 10CC, the expenditure of about Rs. 2.5 crore occurred.
9. Due to extra provision of SMC tank at terrace and deviated quantity of MS in railing, an extra cost of about Rs. 0.50 crore occurred.
10. Expansion joint of aluminium (in walls, floors and roofs) provided as per actual requirement at site. This caused an extra cost of Rs. 0.74 crore.
11. Expenditure occurred due to reimbursement of service tax to the agency of a total amount of Rs. 1.12 Crore
12. With the increase in escalation of labour and material components total cost is = Rs 2.94 Crore

Due to all the reasons stated above, the extra expenditure of about Rs 21.83 crore occurred from the tendered amount of Rs.32.88 crore. Hence the net civil expenditure (21.83+32.88= 54.71 crore) excluding the cost of contingencies and labour cess. As the AA&ES was Rs. 48.99 lacs and the civil expenditure comes out to be Rs. 55.61 crore. and electrical provision of Rs. 7 crores. With a final cost of about Rs. 62.61 crores. The increase in cost is about 27.80 %.

As per all the reasons stated above, the revised cost may be obtained from the client department.

चरुः पादुकाः अभिरुच्यतः

महाराष्ट्र देशीय मण्डल

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भार्यपालक अतिशेखर

51

Minutes of the Meeting of Internal Technical Committee held on 13.08.2016 at 11.00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra.

The following were present

- | | | |
|---|---|----------|
| 1 | Prof. Veerendra Kumar
Prof. Civil Engineering Deptt.,
IIT (BHU), Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Institute Engineer,
IIT, Roorkee | Member |
| 3 | Sh. G K Taneja
Executive Engineer(Electrical)
IIT, Delhi | Member |

The Committee decided as under

1. To discuss ~~and~~ the Revised Cost estimate with detailed reason for increase in cost for various re-carpeting of roads
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
 - c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

Since approval from the competent authority has already been taken in the previous meeting into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,89,489/- and for (d) Rs. 7,04,811/-

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kimach road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected) by CPWD).

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 2 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order

Moreover, the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore, the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 2,56,48,649/-

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra

As the work has already been completed ex post facto sanction may be given by the competent authority. The Technical-Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,58,39,000/-

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,65,73,100/- projected by CPWD is recommended for the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,29,38,441/-

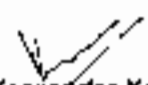
- 7 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CIAC water supply lines with centrifugally cast (Spun) iron pipe class I A in Residences, Hostels and Instructional building at NIT, Kurukshetra

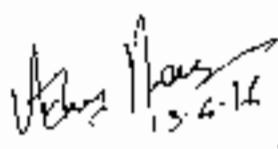
As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 27231.300/-.

- 8 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute

Item No. 8 does not come in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanctioned amount, because CPWD took contract action based on estimates given by NIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.


(Veerendra Kumar)


(Ajay Sharma)


(G K Taneja)

Director

22/6/16

The recommendation of the Committee will be placed in the next
Estt. WC meeting - 22/6/16
(G K Taneja)

14.02.57.9
14/2/16

GOVERNMENT OF INDIA
Central Public Works Department

27/2/16

आदेश क्र 14/2/16
सेवा क्र 14/2/16
दिनांक 14/2/16



Office of the Chief Engineer (P.W.D.)
General Public Works Department,
Kandla Sindh, Sindh 75,
Gandhinagar, 110002

सेवा क्र 14/2/16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

दिनांक 14/2/16

1. The work has been completed and the bill has been submitted for payment. The bill is for Rs. 10,00,000/- (Ten Lakhs only) and is for the work done on the site at Kandla Sindh. The work done includes the construction of the RCC bridge and the installation of the water supply system. The bill is for the work done on the site at Kandla Sindh. The work done includes the construction of the RCC bridge and the installation of the water supply system. The bill is for the work done on the site at Kandla Sindh. The work done includes the construction of the RCC bridge and the installation of the water supply system.

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14/2/16

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14/2/16

Subject: Minutes of meeting of Estate Affairs Committee held on 11.08.2016 & 12.08.2016 in office of the Dean (P&D) & Chairman (EAC) at NIT, Kurukshetra.

A meeting of Estate Affairs Committee was held on 11.08.2016 at 04:00 PM and 12.08.2016 at 04:30 PM in office of the Dean (P&D) & Chairman (EAC) to discuss the various issues related to Estate Section.

Following were present.

1.	Prof. V.K. Sehgal, Dean (P&D)	Chairman
2.	Prof. Arun Goel, Dean (Estate)	Member
3.	Prof. K.K. Singh, Prof. Civil Engg. Deptt.	Member
4.	Prof. V.P. Singh, Prof. I/C (E&C)	Member
5.	Dr. Saurabh Chanana, Prof. I/C (EM)	Member
6.	Prof. Anil Dahiya, Prof. I/C (H&L)	Member
7.	Dr. H.D. Chalak Prof. I/C (S&C)	Member
8.	Sh. S.N. Kaushik, A.E. (Civil)	Member & Convener

However, Dr. Chalak Hanuman Devidas, Prof. I/C (S&C) could not attend the meeting on 11.08.2016.

Following issues were discussed and resolved as under:

1. To discuss a cost estimate for water supply line route indicators in the main work of CI/AC water supply lines with centrifugally cast (spun) iron pipe class LA in Residences, Hostels and instructional building at NITK (Rs. 1,19,300/-)

A cost estimate received from Executive Engineer (Civil) CPWD Karnal vide letter no. 20(142)PS/KCD/2016/2582 dated 23.06.2016 was discussed and it was resolved that the work should be completed within sanctioned revised estimate being approved by the B&WC and subsequently FC & BOG.

2. To discuss the drawings of Toilet & Kitchen in the married hostel and common toilet in single room hostel (Multi-purpose hostel -- 300 seaters) for physically disabled person.

The drawings received from the Chief Architect (NR-I), CPWD, Chandigarh vide letter no. CA-NR-I/501/2016/386 dated 23.06.2016 were discussed and it was resolved that the CPWD may be intimated to adjust the new requirement of toilets for physically disabled persons vide MUD circular within the sanctioned plinth area of building as per already approved architectural drawings.

3. To discuss the Proposals under the Centrally Sponsored Scheme of construction of Hostels for OBC (Boys and Girls) during financial 2016-17.

A letter no. 11015/04/2016-BC-I dated 16.05.2016 as received from the Deputy Secretary, Govt. of India, Ministry of Social Justice and Empowerment, Department of Social Justice and Empowerment was discussed and it was resolved that the Chief Wardens (Boys & Girls) may be requested to give their requirements of Hostel for OBC (Boys & Girls) during financial year 2016-2017.

4. To discuss 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. 77,76,615/-
(iii) Providing Audio System in Board Room of New Admn. Building at NITK for Rs. 12,63,360/-

The Revised Preliminary Estimates received from the Superintending Engineer (E), CPWD, Chandigarh vide letter no. 23(130)/CCEC/2016-17/923 dated 20.05.2016 were discussed and it was resolved that the CPWD be informed to re-examine these revised estimates as per the expert opinion of Sh. K.N. Rai, Former Chief Executive & Advisor, Ministry of Defense, DRDO, New Delhi (copy attached.)

my *[Signature]* *[Signature]* *[Signature]* *[Signature]*

5. To discuss a letter received from Security Officer regarding provision of wash room and drinking water facility at KUK Gate and Kirmach Gate no.-2 at NITK.

A letter No.SO/06/2016/99 dated 02.06.2016 received from Security Officer regarding provision of wash room and drinking water facility at KUK Gate and Kirmach gate No.-2 was discussed. EAC was informed that a letter no CC/3506/100 dated 10.02.2016 had been sent to Prof. S.K. Patidar, Prof. Civil Engineering Department for expert opinion to use septic tank or any other option. It was resolved that Prof. S.K. Patidar, Prof. Civil Engineering Department may be reminded to give his expert opinion in this regard.

6. To discuss a request received from Asstt. Prof. Manish Kumar Jha, Department of Business Administration at NITK - regarding to replace western toilet by Indian toilet.

A request was received from Asstt. Prof. Manish Kumar Jha, Department of Business Administration to replace western toilet by Indian toilet. The matter was discussed and it was resolved that the conversion of existing OWC seat is only allowed into EWC seat on the recommendation of Senior Medical Officer, Health Centre NIT, Kurukshetra. Further it was also resolved that as per present scenario, EWC seat may not be converted into OWC seat.

7. To Discuss a request received from Head of Department of Computer Engineering Department - regarding restore the dismantled partition wall between room no. 101 & 102

A request was received from the Head of Computer Engineering Department - regarding restoration of the dismantled partition wall between room no. 101 & 102. The matter was discussed and it was resolved that O R (GA & Legal) may be requested again to intimate about the legal opinion already sought in reference to letter no. CC/3506/101 dated 10.02.2016 in this regard. The matter is deferred till the receipt of legal opinion.

8. To Discuss a letter received from Prof. IC (T&P) Cell regarding - One Separate door is required.

A letter was received from Prof. IC (T&P) Cell - regarding provision of one separate door in Training & Placement. The matter was discussed and it was resolved that the request regarding provision of extra door in the corridor of T & P Cell was not accorded to. However, it was also resolved that the company officers may use VIP toilet. It was further resolved that feasibility of installation of one or more urinal pot in the VIP toilet may be explored.

9. To discuss a letter received from Chief Electrical Inspector to Govt., Haryana, Chandigarh.

A letter received vide Encls. No. 1192-1207 dated 18.03.2016 from Chief Electrical Inspector to Govt. Haryana, Chandigarh regarding "Self certification of electrical installation of owner up to 33 KV" was discussed and it was resolved that CPWD be asked to provide safety certification of all electrical installations at NIT, Kurukshetra in compliance with Central Electricity Authority (CEA) (measures relating safety of electric supply) Regulations, 2010. Further, it was resolved that a copy of communication with the CPWD be also sent to Chief Electrical Inspector, Haryana.

10. To discuss a letter received from Prof. IC (EM) regarding - Installation and maintenance of RO Systems/Water Coolers.

A letter no. EM/NITK/2016/107 dated 03.06.2016 received from Prof. IC (EM) regarding installation and maintenance of RO Systems/Water Coolers in the institute was discussed and resolved that a Jt. HoD's, Head of Sections and Coordinators be authorized to purchase and install the water cooler along with water purifier and maintain themselves as per the requirements. However, routine maintenance related to electrical supply and water supply provisions will be provided by Estate Section.

11. To discuss an E-mail received from Management Division, [Technical Section-V] Ministry of Human Resource Development, New Delhi – regarding use of Energy Efficient Electrical Appliances.

An E-mail dated 26.04.2016 received from Management Division [Technical Section-V] Ministry of Human Resource Development, New Delhi – regarding use of Energy Efficient Electrical Appliances was discussed. Prof. I/C (EM) apprised the Committee that in most of the old academic blocks of NIT, Kurukshetra electrical fixtures have been replaced with energy efficient LED fixtures and energy efficient fans (having capacity of 30 to 35 W). Further, it was resolved that electrical maintenance section be authorized to replace the defective electrical fixtures in the Institute with energy efficient LED fixtures as per future requirements, in accordance with the guidelines provided by the Management Division, [Technical Section-V] Ministry of Human Resource Development, New Delhi – regarding use of Energy Efficient Electrical Appliances.

12. To discuss a letter received from SAS Officer – regarding 3 feet fencing over the boundary wall of Swimming Pool at NITK.

A letter no. SD/380 dated 22.04.2016 from SAS Officer was discussed and it was resolved that the concertina coil may be provided over the existing boundary wall of the swimming pool from safety point of view. Further, it was also resolved that the expenditure of this work may be charged from the savings of the work of providing concertina coil over the Institute boundary wall within the approved A/A & E/S already communicated to the CPWD.

13. To discuss the minutes of meeting held on 06.04.2016, received from Executive Engineer (Elect.), CPWD, Karnal regarding on-going electrical works.

Minutes of meeting held on 06.04.2016 at NIT, Kurukshetra received from Executive Engineer (Elect.) CPWD, Karnal vide letter no. 20(38)/KCED/2016/887 dated 21.04.2016 regarding on-going electrical works were discussed and resolved that Prof. I/C (CCN) and Prof. I/C (Telephone) be requested to coordinate with Executive Engineer (Elect.), CPWD in the light of the earlier resolution of EAC communicated vide letter No. CC/3506/56 dated 27.1.2016 to ensure successful completion of the project. Further it was resolved that Prof. I/C (CCN) and Prof. I/C (Telephone) may be included as Special invitees in EAC meetings in future for improving the coordination in various infra-structural works. It was also resolved that CPWD may complete distemper/painting under the work of replacement of electrical wiring in the instructional building already conveyed vide letter no. CC/3514/4760 dated 06.06.2016.

14. To discuss the finally proposed ramp layout plan at various locations surrounding the premises of parking area of BT & CT type residents at NITK.
(i) Various requests received – Regarding provision of ramps in the parking of multistory building (CT/BT Types)

Various requests for provision of ramps in the parking area received from the residents of BT & CT type houses were discussed and it was resolved that ramps at different locations surrounding parking areas of BT & CT type residences as proposed in the report submitted by the Committee consisting of Prof. I/C (E&C), Prof. I/C (EM), Prof. I/C (H&L) and AE (Civil) be allowed to be executed by the Estate Section (drawing sketch enclosed).

15. To discuss a letter received from Principal Technical Officer, Central Workshop – regarding for converting Electrical room (adjacent to wash room) into Girl's washroom.

A letter received from Principal Technical Officer, Central Workshop vide no. WGS/2016/212 dated 11.07.2016 – regarding converting Electrical room (adjacent to wash room) into girl's washroom, was discussed and it was resolved that the said room may be converted into girl's washroom by the estate section.

16. To discuss a request received from Dr. D. P. Singh, Professor & Head of Chemistry Department – regarding widening of Main Gate of House No. 8B-12

A request received from Dr. D.P. Singh, Professor & Head of Chemistry Department vide letter no. CH/16/468 dated 12.07.2016 – regarding widening of Main Gate of House No. 8B-12, was discussed and the request was not accorded.

17. To discuss a letter received from Warden, Abhimanyu Bhawan, Hostel No. 1 NIT, Kurukshetra regarding theft in solar panel installed on the roof of Hostel No. 1

A letter received from Warden, Abhimanyu Bhawan, Hostel No. 1 NIT, Kurukshetra vide no. H-1/442/2016 dated 13.07.2016 regarding theft of solar panel installed on the roof of Hostel No. 1 was discussed and it was resolved that the inventory of the fixtures of solar water heating system (in the present condition) on the roof top of the hostel be handed over to the concerned hostel authority through Chief Warden (Boys & Girls).

It was further resolved that the inventory fixtures of cold water tank supply pipe line to the solar water-heating system installed in the hostels (H-1 to H-9 boys & H-1 to H-2 girls) already conveyed vide letter no. CG/3502/08 dated 10.02.2015, be handed over to respective hostel authority through Chief Warden (Boys & Girls). In future hostel authorities should communicate their related matters to Professor In-charge Security and Registrar.

18. To discuss a letter received from Under Secretary to the Government of India, MHRD, Department of Higher Education Technical Section-I – Regarding Financial Assistance for undertaking various activities for PwDs under Scheme for Implementation of Persons with Disabilities Act, [SIPDA].

A letter vide no. 54-2/2016-SY.1 dated 27.06.2016 received from Under Secretary to the Government of India, MHRD, Department of Higher Education Technical Section-I – regarding Financial assistance for undertaking various activities for PwDs under Scheme for Implementation of Persons with Disabilities Act [SIPDA] was discussed. EAC was apprised that the work of provision of lifts for persons with disabilities (PwD) at various locations in the Institute has already been allotted to the CPWD for execution and funds are being received from Plan Grant of MHRD, GOI and resolved that there is no need of separate financial assistance from the Scheme for Implementation for Persons with Disabilities Act, [SIPDA] as referred above.

19. Various requests received regarding the problem of hot water supply during summer in the multistory residence (CT/BT type)

Various requests received regarding the problem of hot water in the water supply pipe line instead of normal water during summer period in the multistory residence (CT/BT type) was discussed and it was resolved that G.I. water supply pipeline laid on terrace of the building may be wrapped with insulating material to keep the water at normal temperature through Estate Section.

20. To discuss letter received from A.E.E. 'Op' Sub-division No.-2 Kurukshetra vide memo No. 1944 dated 29.01.2016 – Regarding Enactment of sales circular no. 15/2015 dated 08.05.2016.

A letter received from A.E.E. 'Op' Sub-division No.-2 Kurukshetra vide memo No. 1944 dated 29.01.2016 – Regarding Enactment of sales circular no. 15/2015 dated 08.05.2015 was discussed. Prof. I/C (EM) informed that institute has taken connection of 4560 KW which is served through three nos. 11 KV Electrical Sub Stations and capacity of connection was decided on the basis of rating of the transformers installed in these sub stations. The capacity of these transformers was kept high in view of future expansion of electric load at NIT, Kurukshetra. Till date these transformers are operating at 10%-30% of their rated capacity. Therefore, there is a scope of future expansion of load within NIT premises without exceeding the limit of load sanctioned by UHEVN. There is no requirement of upgrading the connection capacity and voltage level at present as suggested by AEE 'Op' UHEVN. Hence it was resolved that a letter be written to the AEE 'Op' UHEVN stating that there is no need to upgrade the electrical connection at present.

21. To discuss a letter - Regarding Separate metering of Director Residence (A-1) and letter received from Prof. I/C (EM) vide no. EM/2016/NITK/42 dated 05.02.2016

A letter no. EM/2016/NITK/42 dated 05.02.2016 received from Prof. I/C (EM) - regarding Separate metering of Director Residence (A-1) was discussed and it was resolved that a separate electricity metering be done in Director Residence excluding old camp office, extension part of camp office at 1st floor, servant room, security room & surrounding portion. It was further resolved that payment of electricity bill of Director Residence excluding the portions mentioned above will be borne by the Director of the Institute.

22. To discuss the utilization of old DG Sets and small transformers.

The matter regarding utilization of old DG Sets and transformers was discussed. Prof. I/C (EM) informed the committee that a number of small DG Sets and transformers are lying redundant in the section due to installation of new infrastructure. CPWD has set up three 11 KV sub-stations of 1700 KVA capacity in 2012 and has installed DG backup of 3750 KVA capacity in the sub-stations in year 2015. The redundant DG Sets and transformers (list attached) were in use prior to commissioning of these works. Now, there is no use of these equipment in near future. Since, the equipment are in good condition, it is recommended to auction them.

23. To discuss regarding Provision of stair case in BB (new) single storey type houses to carry out the maintenance work at roof top.

This item was dropped in the light of the earlier decision taken in the 18th B&WC meeting vide item no. 15.4 dated 09.12.2013 which states that the provision of staircase be made only in double storey BA, BB, BC, CA, CB & CC types residential houses.

24. To discuss regarding Provision of AC in lecture rooms of LHC Block, Civil Engineering Department, Mechanical Engineering Department & Ground floor of Electrical Engineering Department of the Institute.

The matter regarding provision of AC in lecture rooms of LHC Block, Civil Engineering Department, Mechanical Engineering Department & Ground floor of Electrical Engineering Department of the Institute was discussed and it was resolved that a letter be sent to CPWD for checking the feasibility of proposal and also to provide the cost estimate for air conditioning of all lecture halls (having capacity of more than 50 students) of the Institute.

25. To discuss a request received from the Chief Warden (Boys) regarding AMC of lifts and fire extinguishers of Hostel no.-10

A request received from the Chief Warden (Boys) vide letter no. CW/C/2016/724 dated 18.07.2016, regarding - The AMC of lifts and fire extinguishers of Hostel no.-10 involving annual maintenance of about Rs 10 lacs was discussed and it was resolved that the AMC of lifts and fire extinguishers be done by the hostels at their own level. The expenditure on account of AMC of lifts and fire extinguishers of hostel no.-10 may be borne by the Institute.

26. To discuss a request received from HoD, Civil Engg. Department regarding - Construction of Washroom in the Conference Room & in the office of Head of Department.

A request received vide no. CED/2016/555 dated 25/07/2016 from HoD, Civil Engineering Department regarding - Construction of Washroom in the Conference Room & in the office of Head of Department was discussed and it was resolved that the said work is not feasible as per prevailing site conditions and hence this item was dropped.

[Handwritten signatures and initials at the bottom of the page]

27. To discuss a letter regarding Furniture for Hostel (Rooms, P.G. Rooms, Offices, Dining Hall, Kitchen etc.) for the construction of 300 seater Multi-Purpose Boys Hostel i.e 100 suites for foreign students, research scholars and married PG students at NITK.

A letter received vide no. 24(43)/KCD/2016-17/103 dated 01.08.2016 regarding furniture for the construction of 300 seater Multi-Purpose Boys Hostel (Rooms, P.G. Rooms, Offices, Dining Hall, Kitchen etc.) i.e 100 suites for foreign students, research scholars and married PG students was discussed. It was resolved that the Chief Warden (Boys) be communicated for sending the requirement of furniture for the above said hostel at the earliest.

28. To discuss the letters received from Chief Engineer, CPWD, Chandigarh regarding Revised Preliminary Estimate (RPE) as per prescribed rules/format of government of India and adopted all over India i.e. appendix -9 of CPWD works manual -2014, Central Public account code para 330-332 is applicable for all the government of India departments and its compliance is mandatory.

The letters received from Chief Engineer, CPWD, Chandigarh vide no. 23(390)/SE(P)/EE(P)/4120-4121 dated 14.07.2016 regarding Revised Preliminary Estimate (RPE) as per prescribed rules/format of government of India and adopted all over India i.e. appendix -9 of CPWD works manual -2014, Central Public Account Code para 330-332 is applicable for all the government of India departments and its compliance is mandatory. The matter was discussed and it was resolved that the same may be put-up before the ensuing B&WC meeting.

29. To discuss the colour scheme for 300 seater multipurpose hostel (Married Hostel side & Single room hostel side) received from Executive Engineer, CPWD, Chandigarh

The colour scheme for 300 seater multipurpose hostel (Married Hostel side & Single room hostel side) received from Executive Engineer (Civil), CPWD, Karnal vide letter no. 54(NIT)/PS/KCD/2016/3199 dated 06.06.2016 was discussed and it was resolved that the samples of both the colours scheme be applied at the site on the walls for finalization of colour scheme and the same be communicated to the CPWD.

30. To discuss a letter received from A.E. (Civil), CPWD regarding Construction of Boundary wall and Guard Room for 300 seater multi-purpose hostel at NITK.

A letter received from A.E. (Civil), CPWD regarding Construction of Boundary wall and Guard Room for 300 seater multi-purpose hostel vide no. 24(43)/KCD/2016-17/197 dated 03.08.2016 was discussed and it was resolved that the proposal be approved and the work be completed within revised sanction of A/A & E/S which is being approved by the B&WC and subsequently by the FC & BOG.

31. Any other item:
(i) To discuss regarding release of final payment of the work of Cold Water Tank Supply Line to the solar water heating system installed in the hostel no. 1 to 8 boys hostel, Girls hostel no. 1 & 2 at NITK.

The matter was discussed and it was resolved that the whole matter be apprised to the Hon'ble Director. The inventory of the work of cold water tank supply pipe line to the solar water heating system installed in boys hostels no. 1 to 8 and girls hostels no. 1 & 2 has already been sent to Chief Warden (Boys) and Chief Warden (Girls) vide letter no. CC/35/2008 dated 10.02.2016. The Chief Warden (Boys) and Chief Warden (Girls) be requested to take over the inventory of the above said work, so that final payment of the work of installation of cold water tank supply pipe line to the solar water heating system installed in the hostel no. 1 to 8 boys hostel, girls hostel no. 1 & 2 be released to CPWD without further delay.

- (ii) To discuss a request received from HoD, Mechanical Engineering Department - regarding interrupted water supply.

A request was received vide letter no. ME.DN/2/133 dated 03.08.2016 from HoD Mechanical Engineering Department - regarding interrupted water supply.

The request was discussed and it was resolved that the water supply be made from 06:00am to 02:30pm and from 04:00pm to 10:00pm. Water supply will not be available from 02:30pm to 04:00pm and from 10:00pm to 06:00am. It has been resolved that sluice valves used in old pipelines may be fitted in new pipelines by Estate Section to separate academic & residential areas. This system will be reviewed after 3 months.

- (iii) To discuss the matter regarding funds requirement for the work of distempereing, painting and external snowcon in the hostel nos. 7, 8 & 9.

The matter was discussed and resolved that the Estate Section may submit estimate of distempereing, painting including internal & external finishing for the new buildings i.e. Hostel no. 8, 9, 10 300 seater girls hostel, MBA/MCA Block, 12 nos. Lecture Halls, Class rooms at 1st floor of Workshop building, BT & CT type houses, Guest House & Health Centre. Further, it is also resolved that Estate Section may submit financial budget estimate for the year 2017-18 for maintenance of instructional buildings, staff quarters and hostel buildings on the basis of plinth area rates as per HSR/DSR norms and the same be put up in the next meeting of the Estate Affairs Committee for discussion.

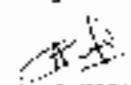
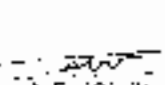
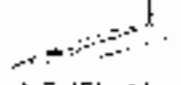
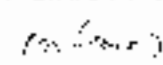
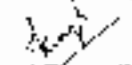
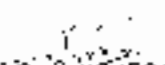
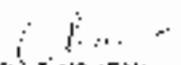
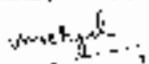
- (iv) To discuss a letter received from Assistant Engineer (Civil), Central sub-division, CPWD, Kurukshetra - regarding provision of modular kitchen in 300 seater multi-purpose hostel, single room for boys and married accommodation.

A letter no. 24(43)/KCSO/2016-17/202 dated 10.08.2016 received from Assistant Engineer (Civil), Central sub-division CPWD, Kurukshetra - regarding provision of modular kitchen in 300 seater multi-purpose hostel - single room for boys and married accommodation was discussed. The provision for providing modular kitchen has already been made in the structural design & drawings and revised estimate by CPWD. Since the structural work of the hostel is near completion, it is resolved that the modular kitchen may be provided in 300 seater multi-purpose hostel.

- (v) To discuss the estimate received from Executive Engineer (Civil) Karnal Central Division, CPWD, Karnal - regarding Partition of dining area from recreation area in the 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra.

The cost estimate of Rs. 3,27,000/- received from Executive Engineer (Civil) Karnal Central Division, CPWD Karnal vide letter no. 20(147)/PS/KCD/2016/3720 dated 08.08.2016 - regarding partition of dining area from recreation area in the 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) was discussed. The cost estimate of Rs. 3,27,500/- is only for one side aluminium partitioning along the corridor. As per the discussion with Chief Warden (Girls) it was proposed to provide two aluminium partitioning partly glazed and partly with pre laminated board on either side of the corridor only in the recreation area and provision of 4 nos. glass doors in the main corridor to separate the dining area and recreation area for smooth running of hostel. The same was discussed in EAC. EAC resolved that CPWD may be communicated to submit the revised cost estimate at the earliest.

Meeting ended with thanks to the chair.

			
Prof. MC (BRL)	Prof. MC (S&C)	A.E. (Civil)	A.E. (Elect)
			
Dean (Estate)	Prof. Civil Engrg Deptt.	Prof. MC (E&C)	Prof. MC (EV)
			
Dean (P & D) & Chairman (EAC)			

It is requested that above recommendations of Estate Affairs Committee may be approved please.

Submitted for kind consideration & approval please.

Registrar I/C 26/8/16

DIRECTOR

30/8/16

30/8/16
Dean (Estate)

Dean (Estate) 30.08.2016

PIE (E&C) 30/8/16

AE/C

30/8/16

31/8/16

Item No.22.4 To consider and approve the Revised Cost estimate for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The administrative approval and expenditure sanction for the work of construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra was conveyed to CPWD for amounting to Rs. 3596.00 lacs. vide letter no CC/19/96 dated 07/08.01.2013. The work was awarded to the contractual agency for execution by CPWD vide letter no 54(NIT)/KCD/2015/779 dated 17.03.2015 with a time limit of 630 days (copy enclosed). The actual date of start of work was 19.03.2015 and the stipulated date of completion was 18.12.2016. thereafter, the CPWD submitted the preliminary revised cost estimate through Chief Engineer (NZ-I), CPWD, Chandigarh for an amount of Rs. 50.65.79.100/- vide letter no. 23(390)/SE(P)/EE(P)/I/385 dated 04.02.2016, which includes the provision of 4 nos. lifts instead of two nos. lifts. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

"The B&WC deliberated on the matter and resolved that a realistic revised cost estimate be prepared and submitted by CPWD with full justification for increase in cost, positively by 10th Jun 2016."

In the light of the decision of 21st Building & Works committee, the CPWD submitted the realistic revised cost estimate with full justification for increase in cost for an amount of Rs. 50.65,79,100 vide letter No 20(142) PS/KCD/2016/2332 dated 07.6.2016. The same was put up before External Technical Committee meeting held on 13.6.2016 in the Board Room of Golden Jubilee Administrative Building NIT,

Kurukshetra The External Technical Committee discussed the revised estimate in detail and decided as under

"The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,65,79,100/- projected by CPWD is recommended for the approval of the competent authority."

In response to above decision of the Technical Expert Committee a letter no. 23(390)/SE(P)/EE(P)/4120 dated 14.07.2016 was received from Chief Engineer CPWD Chandigarh stating that the work is in progress and finality of the cost of the work cannot be assessed on this stage due to various constraints and parameters. The RPE has been framed and submitted to this office vide letter no. 23(390)/SE(P)/EE(P)/4365 dated 04.02.2016 for an amount of Rs. 50,65,79,100/- as per the prescribed rules/format of Govt. of India and adopted all over India i.e. Appendix 9 of CPWD Works Manual-2014 which is applicable in the instant case as the work is in progress. Central Public Account Code para 320-332 is applicable for all the Govt. of India department and its compliance is mandatory. The same letter was put up in the EAC meeting held on 11.08.2016 & 12.08.2016 and it was resolved that the same may be put before the ensuing B&WC meeting.

The Building & Works Committee may consider and approve the realistic revised cost estimate for the work of construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students (Multi-storeyed framed structure) (Ground +5) at NIT Kurukshetra with an amount of Rs. 50,65,79,100/-

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119**

No. CC/19/96

Dated: 07/01/2013

The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
448, Subhash Colony
Karnal

Subject:- Administrative approval & Expenditure sanction for the Construction of 300 Seaters Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground Floor +5).

Reference. MoU dated 20.12.2012 & approval of the Honble Director on dated 04-01-2013.

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under.

Sr. No.	Name of Work	Amount REC (Rs. In Lacs)
1	Construction of 300 Seaters Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground Floor +5)	Rs. 3596.00 (Rs. Three Thousand Five Hundred Ninety Six Lacs Only)

Dean (Estate)
For Director

Copy to

1. SS to Director for the kind information of the Honble Director
2. Chief Engineer (NZ-) Chandigarh CPWD, Kendriya Sadan, Sector-9 CPWD, Chandigarh
3. SE (Elect.) Chandigarh Central Electrical Office, Kendriya Sadan, Sector 9-A, CPWD, Chandigarh
4. SE (Civil) Chandigarh Central Office, Kendriya Sadan, Sector-9 A, CPWD, Chandigarh
5. Executive Engineer (Elect.), Central Public Works Department Karnal Central Electrical Division, 22-A Indira Colony Karnal-132021
6. Registrar
7. Proj. MC (E & C)
8. Proj. MC (EM)
9. DR (Acc)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect.)
13. J.E. (Civil)

Preliminary Estimate for construction of 300 seater boys hostel including 100 suits for married P.G. Students/research Scholars.

on Plinth area rates as per CPWD

(Multi-Storeyed framed structure)

(Ground Floor + 2)

1. Total plinth area for 300 seater boys hostel including 100 suits for married PG Students / Research Scholars

300 seater boys hostel 100 suits (family rooms with attached toilets, common room, dining hall, kitchen pantry, visitors rooms, staff room, reading room, wardrobe, warder residence, entrance lounge, reception staircase, lift lobby, circulation)

15300 sqm

CPWD plinth area rates as on 01.10.2007 + 25% add premium

(i)	RCC framed structure (up to 6 storeys)	=	9100 sqm
(ii)	RCC raft foundation (Ground Floor only)	=	3050 sqm
(i)	Fire Fighting	=	300 sqm
	Total		12450 + 25%

Total Cost

15300

x

16200 per

sqm

Total

2478 lacs

2. Services

(i)	Internal water supply and sanitary installations @ 10%	Rs	178 lacs
(ii)	External Services @ 5%	Rs	24 lacs
(iii)	Internal electric installations @ 12.5%	Rs	234 lacs
	Total		436 lacs

3. Allied works such as lifts, back up power supply, Sub-Stations, Furnitures etc.

(i)	Lifts 2 Nos. (13 passengers 554 kg wt. 1.5m/s speed)	@ Rs	21 lacs each
		Rs	42 lacs
(ii)	Back up power supply (DG Sets)	Rs	20 lacs
(iii)	Electro H.T. L.T. S/S	Rs	20 lacs
	Furniture for Hostel Rooms, PG rooms, offices		
(iv)	Dinning Hall, Kitchen etc.	Rs	50 lacs
	Total		142 lacs

Grand Total

2478 +

706 +

142

=

3326 lacs

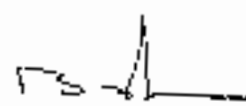
3% contingencies

Rs

99 lacs

Total

3425 lacs


Executive Engineer
W.T.T., Kanksheta

प्रदक पत्र

संख्या- 54(NIT)/क.के.अ./2015-229

दिनांक 12/3/2015

प्रिय महोदय,

M/s. Jai Prakash & Sons,
222-A, Laxia Mohalla,
Dehradun - 248001.

विषय : C/o 300 Seater Multi-Purpose Boys Hostel i/c 100 Suites for Foreign Students, Research Scholars and Married PG Students (Multi-storeyed framed structure) (G+5) i/c internal Water Supply, Sanitary Installation, Drainage & Internal Electrical Installations at NIT, Kurukshetra (Haryana).

संदर्भ : इस कार्यालय के पत्र संख्या 54(NIT)/क.के.अ./698 दिनांक 25.2.2015 एवं आवेदन पत्र संख्या 'शून्य' दिनांक 17.3.2015 एवं डी.टी.सी डेटा पत्र संख्या 181355 दिनांक 3.3.2015 received on 11.3.2015.

महोदय,

Your item rate composite tender for the work mentioned above has been accepted on behalf of the President of India at your negotiated tendered amount of ₹ 28,93,64,991/- (Rupees Twenty Eight Crores Ninty Three lacs Sixty Four Thousand Nine Hundred & Ninty One Only) which works out to 6.30% (Six Decimal Three Zero Percent only) below against the estimated cost of ₹ 30,88,32,748/- (Rupees Thirty Crores Eighty Eight lacs Twenty Two Thousand Seven Hundred & Forty Eight Only). Your negotiation letter No. NIT Dt. 6.2.2015 & letter No. JP-HR/501 Dt. 15.1.2015 will form part of the agreement.

Civil Work

- | | | |
|----|--|------------------------|
| 1. | Original Tendered amount : | Rs. 27,42,03,740/- (A) |
| 2. | Percentage against E.C. Rs. 29,52,28,994/- put to tender : | 7.12% below (Civil) |

Electrical Work

- | | | |
|----|---|-----------------------|
| 1. | Original Tendered amount : | Rs. 1,51,61,251/- (B) |
| 2. | Percentage against E.C. Rs. 1,36,04,654/- put to tender : | 11.44% above (Elect) |

Composite

- | | | |
|----|--|--------------------|
| 1. | Net amount of composite tender (A+B) : | Rs. 28,93,64,991/- |
| 2. | Composite ECP : | Rs. 30,88,32,748/- |
| 3. | Percentage against E.C. Rs. 30,88,32,748/- put to tender : | 6.30% below |

You are requested to furnish PERT chart within 15 days of award of work and execute works as per schedule.

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

You are also requested to attend the office of Executive Engineer, Kanwal Central Elect. Division, CPWD, Kanwal to complete the formal agreement for electrical portion of the work within 15 days from the

You are requested to start the work at once. Please note that the time allowed for carrying out the work i.e. 630 days (Six Hundred & Thirty days) shall be reckoned from 19.3.2015.

It is also made clear that you have to execute separate agreements for civil and electrical works with Executive Engineer, Kurukshetra Division, for civil components and EE(E) for elect. Components.

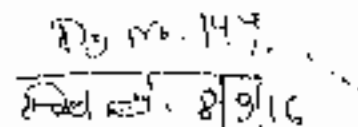
आदेशानुसार,

कार्यपालक अभियंता,
करनाल केन्द्रीय मण्डल,
के.लो.नि.वि., करनाल।

प्रतिनिधि :-

1. गूल करार।
2. अतिरिक्त निर्माण लहानिदेशक (NR-1), के.लो.नि.वि., केन्द्रीय सदन, टी.-9ए, चण्डीगढ़।
3. मुख्य इंजीनियर (उ.अं.), के.लो.नि.वि., चण्डीगढ़ का उसके पत्र संख्या 17/5/2015-हेल्था एवं केण/351 दिनांक 24.2.2015 के संदर्भ में सूचनाएं।
4. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि., चण्डीगढ़।
5. अधीक्षण अभियंता (टि), चण्डीगढ़ केन्द्रीय विद्युत परिमण्डल-1, के.लो.नि.वि., चण्डीगढ़।
6. आयकर आयुक्त, आयकर कार्यालय, कुरुक्षेत्र।
7. वेतन एवं लेखाधिकारी (उ.अं.) के.लो.नि.वि., अगर,के.पुरम, नई दिल्ली।
8. कार्यपालक अभियंता (नि), करनाल केन्द्रीय विद्युत मण्डल, के.लो.नि.वि., करनाल। Encl :-
Contractor negotiation letter No. Nil Dt. 6.2.2015
9. Dean (Estate), NIT, Kurukshetra
10. वरिष्ठ श्रम अधिकारी (उ.अं.), के.लो.नि.वि., केन्द्रीय सदन टी. 9ए चण्डीगढ़।
11. सहायक इंजीनियर, एन आई टी कुरुक्षेत्र केन्द्रीय उपमंडल, कुरुक्षेत्र।
- 12-14. सहायक इंजीनियर (शे)/कार्यपालक अधीक्षक/टैरिफिआ, करनाल केन्द्रीय मंडल, करनाल।
15. श्रम प्रवर्तक अधिकारी (केन्द्रीय) कोटो जं 32, बैंक बगलोजी, करनाल।
16. चर्क पत्राईल।

कार्यपालक अभियंता

[illegible]

Officer of the Chief Engineer's Staff,
 Chief Engineer, Naval Department,
 Admiralty Building, Singapore.
 C. M. 100/1115 (1907).

Recd. 4/29/77

$$p_i = (E_i, \mathbf{p}_i)$$

$\rho_i \in (0, 1)$

James Earl Ray, Jr. 1928-1998

Signature

10/2/11

• 15:14

संख्या:- Revised प्रस्तावक अनुसूच (पौ) दिनांक ०॥

कार्यालय: अश्विन (२०८०)

ଗୁଣିଂଛିଗିଃ .

- [illegible]

GOVT. OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE :- HARYANA DIVISION :- KARNAL, CENTRAL DIVISION BRANCH :- B&E

Name of work:- C/o 300 Seater Multi-Purpose Boys Hostel w/ 400 Bunks for Foreign Students, Research Scholars and Married PG Students (Multi-storaged, framed structure) (G+5) w/ internal Water Supply, Sanitary Installation, Drainage & Internal Electrical installations at NIT, Kurukshetra (Haryana)

Major Head:

Minor Head:

Detailed Head:

This revised preliminary estimate framed by Mr. Anurag Kumar, Executive Engineer, Karnal Central Division, CPWD, Karnal, processed by Mr. R.K. Gandhi, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh and further processed by Mr. A.P. Garg, Executive Engineer (P), O&CE (NZ-I), CPWD, Chandigarh for the probable cost of Rs.50,65,79,100/- w/ 3% contingencies.

REPORT

HISTORY: This revised preliminary estimate amounting to Rs. 50,65,79,100/- w/ 3% contingencies has been framed to cover up the probable cost of the above mentioned work for accord of revised A.A & B/S of the competent authority. Earlier A.A & B/S was received for Rs.3596 lacs vide the letter No. CC/1986 dated 08.01.2013 from Deputy Engineer NIT Kurukshetra against preliminary estimate prepared by Executive Engineer, NIT, Kurukshetra based on PAR-2007 with C + 25%. Revised Preliminary Estimate is required due to change in requirement of the client department and requisition conveyed vide their letter No. CC/3506/93/4743 dated 31.08.2015. As there is increase in plot area from 15300 sqm to 15675 sqm in final drawings and imposition of service tax and increase in cost of construction from the time of sanction and the time of start of work. Hence this estimate.

DESIGN & SCOPE: Following provisions have been made in the estimate. -

A. Civil Work:-

- (i) RCC framed structure up to six stories.
- (ii) RCC raft foundation
- (iii) Resisting earthquake forces
- (iv) Internal Water Supply and Sanitary Installations
- (v) External service connections
- (vi) Furniture work

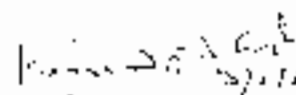
B. Electrical Work:-

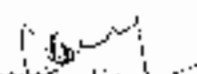
- (vii) Provision for Underground cabling
- (viii) 4 No. 15 Passenger Lift (Speed 1.5MPS)
- (ix) Fire Fighting with down Corer, Fire Extinguishers
- (x) Augmentation of Panels and laying of Cables etc
- (xi) Rising Mains with Al Bus Bar (i) 200A up (ii) 400 Amp
- (xiii) Solar Voltage System.
- (xiv) VRF- VR7 AC System.
- (xv) Fire Alarm System
- (xvi) Telephone cabling
- (xvii) Brine free building

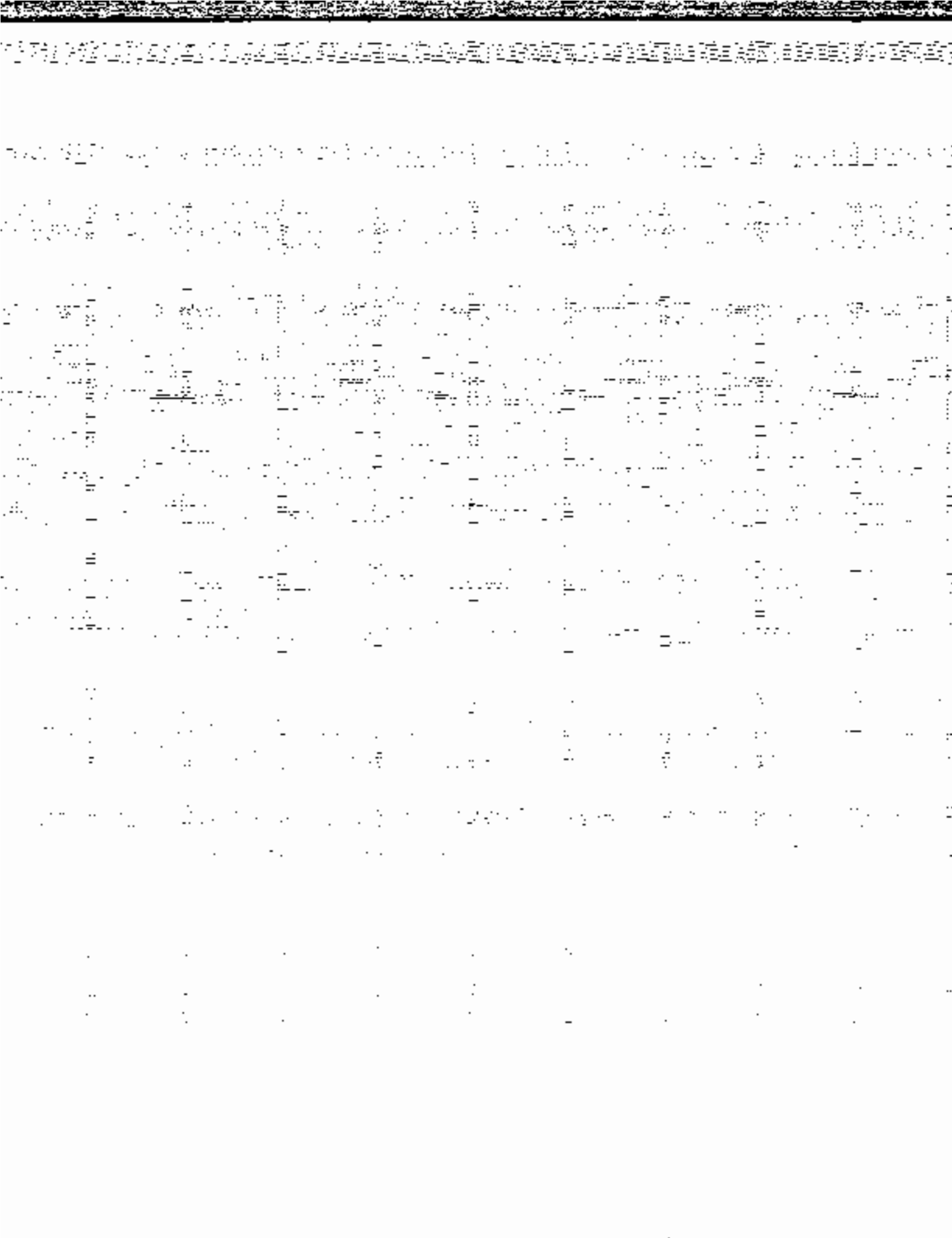
SPECIFICATIONS: The work shall be carried out as per CPWD specification 2009 Vol-I to II with upto date correction slips.

RATES: Based on PAR 2012 enclosed by approved cost index (9 base-150) as on 01-07-2014.

AMOUNT: Rs 50,65,79,100/- (i.e. 3% contingency)
 W.C. ESTT.: Shall be met out of contingency
 T&P:- Shall be arranged by the contractor.
 LAND: Available.
 METHOD: By contract after call tenders.
 TIME: After receipt of A/A & L/S
 a) Pre-construction activities = 03 Months
 b) For execution of work = 18 Months
 Total = 21 Months


 Assistant Engineer (P)
 CPWD, Changanacherry.


 Executive Engineer (P) I
 CPWD, Changanacherry.



REVISED GENERAL ABSTRACT OF COST

Name of work:-C/o 300 Seater Multi-Purpose Boys Hostel i/c 100 Suites for Foreign Students, Research Scholars and Married PG Students (Multi-storeyed framed structure) (G+5) i/c Internal Water Supply, Sanitary Installation, Drainage & Internal Electrical Installations at NIT, Kurukshetra (Haryana).

Sl. No.	Description of work	As per original PE Based on PAR 2007			Remarks	Sl. No.	Description of work	As per Revised Preliminary Estimate Based on			Remarks
		Civil	Elect.	Total				Civil	Elect.	Total	
1	Building work	314691500	44908500	359600000	Annexure-I	1	Building work	396698958	77368629	474067587.00	Annexure-I
						2					
				Total						Total	
				359600000						474067587.00	
								Add for Service Tax @ 5.80%		27495920.00	
				Total:						Total	
				359600000						501563507.00	
								Add for Third Party Quality Control Assurance @1%		5015635.00	
				Total						506579142.00	
	Say			Rs 359600000.00						506579100.00	

[Signature]
3/2/16
Assistant Engineer(P)
CPWD, Chandigarh

[Signature] 3/2/16
Executive Engineer(P)/
CPWD, Chandigarh

[Signature] 3/2/16
Superintending Engineer(P)
CPWD, Chandigarh

Revised Preliminary Estimate amounting to Rs. 50,65,79,100/- (Rupees Fifty Crore sixty five lac seventy nine thousand and one hundred Only) submitted to the Competent Authority for accord of revised A/A & E/S.

[Signature] 3-2-16
Chief Engineer(NZ-I)
CPWD, Chandigarh

ABSTRACT OF COST

Name of work:-C/o 300 Seater Multi-Purpose Boys Hostel i/c 100 Suites for Foreign Students, Research Scholars and Married PG Students (Multi-storeyed framed structure) (G+5)
i/c Internal Water Supply, Sanitary Installation, Drainage & Internal Electrical Installations at NIT, Kurukshetra (Haryana).

S. No.	Item Code	Description of Items	Unit	Original Estimate			Revised Estimate			Explanations
				Qty.	Rate	Amount	Qty.	Rate	Amount	
		As per A/A & E/S given by client deptt.			PAR-2007			PAR-2012		
		R.C.C. FRAMED STRUCTURE (Specifications as per Annexure II)								
1.1	1.1	R.C.C. framed structure upto six storeys:								
1.1.1	1.1.2	Floor height 2.90mtr. (Hostel)	sqm				15675	16500	258637500	264280500
1.2	1.2	Extra for:								
1.2.1	1.2.3	Every 0.30mtr. additional height of floor above normal floor height of 3.35mtr. / 2.90mtr. (270/0.30*0.40=360)	sqm	15300	16200	247800000	15675	360	5643000	
1.2.2	1.2.5	Every 0.30mtr. deeper foundations over normal depth of 1.20mtr (on Ground Floor area only) (270/0.30*0.80=720)	sqm				3284	720	2364480	
1.2.3	1.2.9	R.C.C. Raft foundations. (Ground floor only)	sqm				3284	6450	21181800	
1.2.4	1.2.8	Resisting Earthquake forces.	sqm				15675	1140	17869500	
		(9100+3560)+25%=15825								
		SERVICES:								
2.1	3.1A	Internal water supply & sanitary installations	%age	247800000	10%	24800000	264280500	10%	26428050	
2.2	3.2	External service connections	%age	247800000	5.00%	12400000	264280500	5.00%	13214025	
		Furniture (for Hostels, offices, dinning hall, kitchen etc.)				6000000			8000000	"A"
		WATER TANKS (RCC ONLY)								
3.1	5 5	Underground sump	litre	---	---	---	100000	15	1500000	
		Total				291000000		Total:	354838355	
		Add Contingencies @3%				8730000			10645151	
		Total				299730000			365483506	
		Add for cost index @9%on all except "A"				---			31215452	
		Total				299730000				
		Add Green Building concept (As per 15 BCW Item No. 15.11)				14961500				
		Total:				314691500			396698958	

Kamlesh
Assistant Engineer(P)
CPWD, Chandigarh

[Signature]
Executive Engineer(P)
CPWD, Chandigarh

Revised Preliminary Estimate

Name of work: C/O 300 Seater Multi purpose Boys Hostel i/c suits for Foreign Students, research Scholars and Married PG Students (Multi Storied, Research Scholars and Married PG Students) (Multi Storied frame structure) (G+%) i/c Int. Water Supply, Sanitary Installation, Drainage & Internal Electrical Installations at NIT, Kurukshetra (Haryana).

[illegible]

S.No.	Description	Original Estimate				Revised Estimate				Remarks
		Qty.	Unit	Rate	Amount (In Lacs)	Qty.	Unit	Rate	Amount (In Lacs)	
8.1	SITC of VRV/VRF System including indoor, outdoor unit, piping, cabling, bus trunking, rising main (within the building), wiring electric panel and also treated fresh air system.	--	--	--	--	120	HP	55000	6600000	PAR 2014
	SOLAR VOLTAIC SYSTEM									
9	SITC of grid interactive roof top solar voltaic power generation system i/c space frame but w/o batteries	--	--	--	--	10	Per kwp	100000	1000000	PAR 2014
10	SOLAR WATER HEATING SYSTEM									
10.1	SITC of solar water heating system of following rated capacity and region i/c electrical heater backup and makeup tank but w/o piping									
10.2	Solar water heating system with heat exchanger type1 for cold region									
10.3	1000 liters per day	--	--	--	--	6	Each	210000	1260000	PAR 2014
	Total				41600000				70248259	
	Add C.I @109% on PAR-2012				--	54076829		0.09	4866915	
	Total				41600000				75115174	
	Add Contigencies @ 3%				1170000				2253455	
	Total				42770000				77368629	
	Add Green Building concept @ 5%				2138500				--	
	TOTAL				44908500		TOTAL		77368629	
	Say				44908500				77368600	

Assistant Engineer(P)
CPWD, Chandigarh

Executive Engineer(P)
CPWD, Chandigarh

- Item No. 19.4, the Superintending Engineer (Civil) CPWD informed that the revised estimate will be submitted by 10.6.2016
- Item No. 19.6 the Executive Engineer (Civil) CPWD informed that the work has been awarded and is in progress and discussed regarding cutting of trees coming in the path of boundary wall. After detailed deliberation, it was resolved that the boundary wall should be taken inside if site condition forces to do so in order to complete the work in time. In case a tree is coming in alignment of the wall the wall may be taken around the tree.
- Item 19.10, estimates be reviewed in detail and then submitted to CPWD for re-estimation, if required.
- Item 19.11 it was resolved that feasibility of providing of peripheral road of six feet width along the boundary wall of the Institute be explored by CPWD as it's a mandatory requirement from safety point of view.
- Item 20.5 Superintending Engineer (Civil) CPWD informed that work of SIP will be completed by 30th of June, 2016.

21.3 To consider and approve the Revised Cost estimate for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

It was noted by the committee that the building is more or less complete and it was observed that the stage of submitting PRELIMINARY REVISED ESTIMATE was over. Therefore, it was decided that CPWD should submit a revised estimate clearly bringing out firm and expected liabilities as well as detailed reasons for increase in cost so that appropriate action can be taken. The same should be done by 10th June positively.

21.4 To consider and approve the Revised Cost estimate for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra

The R&WC deliberated on the matter and resolved that a realistic revised cost estimate be prepared and submitted by CPWD with full justification for increase in cost, positively by 10th Jun 2016.



**केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय मण्डल
एन.डी.आर.आई. कैम्पस करनाल**

क्रा- 20(142)/यो.सा./क.के.सं/2016/ 2332

दिनांक 7/6/16

प्र. सं.

Dean (Estate),
NIT, Kurukshetra.

प्रय : C/o 300 Seater Multi-Purpose Boys Hostel including 100 suites for Foreign Students, Research Scholars and Married PG students (Multi-storeyed framed structure) (G + 5) / i/c Internal Water Supply, Sanitary Installation, Drainage and Internal Electrical Installations at NIT, Kurukshetra (Haryana).

प्रति : 21st BWC meeting with NIT authorities on dated 27.05.2016.

During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification and detailed revised cost estimates of the above said work for which revised preliminary estimate has already been submitted by Chief Engineer, CPWD vide his office letter no. 23(396)/अ०अभि०(यो०)/क०अभि०(यो०)/385 दिनांक 04.02.2016 for Rs. 50,65,79,100/-.

Justification for this work is as detailed below:-

The original preliminary estimate for this work was framed by NIT authorities for Rs. 3596.00 lacs and A/A & E/S amounting to Rs. 3596.00 lacs was received vide letter no.CC/19 dated 07.01.2013.

Now the detailed preliminary estimate amounting to Rs. 45,64,75,300/- is being submitted which is based on actual execution and anticipated quantities, as the work is in progress and it is not possible to agree the final executed quantities. The difference in the A/A & E/S between the original estimated amount is Rs. 9,00,00,000/- which is as follows:-

1. Extra on the platform 1000 sq. ft. at Rs. 1000/- per sq. ft. = Rs. 10,00,000.00
2. Extra on ground camp amounting to Rs. 15,00,000.00
3. Extra on Account of provision of furniture approx. Rs. 20,00,000.00
4. Extra on account of providing and fixing modular kitchen Rs. 1,00,00,000.00.
5. Extra items provision for which was not taken in the original estimate.

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
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 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
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 63. *Chlorophyll aci* (Chl *aci*)
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 103. *Chlorophyll aqa* (Chl *aqa*)
 104. *Chlorophyll aqb* (Chl *aqb*)
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 108. *Chlorophyll aqf* (Chl *aqf*)
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 120. *Chlorophyll aqb* (Chl *aqb*)
 121. *Chlorophyll aqc* (Chl *aqc*)
 122. *Chlorophyll aqd* (Chl *aqd*)
 123. *Chlorophyll aqe* (Chl *aqe*)
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 127. *Chlorophyll aqi* (Chl *aqi*)
 128. *Chlorophyll aqj* (Chl *aqj*)
 129. *Chlorophyll aqk* (Chl *aqk*)
 130. *Chlorophyll aql* (Chl *aql*)
 131. *Chlorophyll aqm* (Chl *aqm*)
 132. *Chlorophyll aqn*

Minutes of the Meeting of External Technical Committee held on 13.06.2016 at 11:00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra.

The following were present:

- | | | |
|----|--|----------|
| 1. | Prof. Virender Kumar,
Prof. Civil Engineering, Deptt.
P.T. Birla Vastu | Chairman |
| 2. | Sh. Anil Sharma
Institute Engineer
NIT, Kurukshetra | Member |
| 3. | Sh. G.K. Taneja
Executive Engineer Electrical
NIT, Delhi | Member |

The Committee decided as under:

1. To discuss ~~and~~ the Revised Cost estimate with detailed reasons for increase in cost for various re-carpeting of roads:
 - a) From main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8
 - c) Apollo Canteen Chowk to Y shape road via Open Area Thicket at NIT, Kurukshetra.
 - d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NIT.

Since approval from the concerned authority has already been obtained, the committee, taking into the final approval, the Technical Expert Committee considered and approved the revised cost estimate as (approx) Rs. 46,87,463/- and Rs. 25,04,411/-

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kunkri road gate to Hostel No. 4 (approx. length of 450 meters) at NIT, Kurukshetra

It is noted that the estimation approved for execution is correct, with financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 43,36,720/- (approx. or revised scope of work) as Rs. 43,36,720/-

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bearing barrack comprising of 2 Blocks to accommodate 96 bunks at NIT Kurukshetra

As the work has already been completed for the construction of 1 block, the committee considered and approved the revised cost estimate for the remaining work of construction of 1 block as Rs. 1,10,00,000/-

Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 2,95,48,649/-.

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,58,39,003/-.

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground Floor+5) at NIT, Kurukshetra.

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work, was as revised cost estimate amounting to Rs. 60,65,79,120/- prepared by CPWD is recommended for the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 62,29,30,461/-.

- 7 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CI/AC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostel and Instructional building at NIT, Kurukshetra.

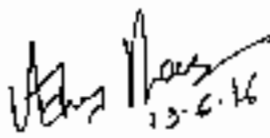
As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,300:-.

- 8 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

Item No. 8 does not come in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction granted, because CPWD took contract action based on estimates given by NIT Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.


(Voorendra Kumar)


(Ajay Sharma)


(G. K. Taneja)

Director

22/6/16

This recommendation of the Committee may be placed in the list of B&WC meeting dated 22/6/16.
Uran (Director) 1. 58

10-11-16

GOVERNMENT OF INDIA
Ministry of Civil Supplies
CENTRAL PUBLIC WORKS DEPARTMENT

प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८



Office of the Chief Engineer (RPL)
Central Public Works Department,
Kendriya Sadak, Sector 10,
Chandigarh-160004

प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८

प्रमाण, प्र. अभिलेख नं. १०८८
प्रमाण, प्र. अभिलेख नं. १०८८

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Subject: Minutes of meeting of Estate Affairs Committee held on 11.08.2016 & 12.08.2016 in office of the Dean (P&D) & Chairman (EAC) at NIT, Kurukshetra.

A meeting of Estate Affairs Committee was held on 11.08.2016 at 11.00 PM and 12.08.2016 at 04.30 PM in office of the Dean (P&D) & Chairman (EAC) to discuss the various issues related to Estate Section.

Following were present.

1.	Prof. V.K. Sehgal, Dean (P&D)	Chairman
2.	Prof. Arun Goel, Dean (Estate)	Member
3.	Prof. K.K. Singh, Prof. Civil Engg. Dept.	Member
4.	Prof. V.P. Singh, Prof. IIT (E&C)	Member
5.	Dr. Narabhi Chandra, Prof. IIT (E&C)	Member
6.	Prof. Anil Dahiya, Prof. IIT (E&C)	Member
7.	Dr. H.D. Chahal, Prof. IIT (S&C)	Member
8.	Sh. S.N. Kaushik, A.E. (Civil)	Member & Convener

However, Dr. Chahal Hanuman Devadas, Prof. IIT (S&C) could not attend the meeting on 11.08.2016.

Following issues were discussed and resolved as under.

1. To discuss a cost estimate for water supply line route indicators in the main work of CP&AC water supply lines with centrifugally cast (spun) iron pipe class I A in Residences, Hostels and Instructional building at NITK (Rs. 1.19,300/-).

A cost estimate received from Executive Engineer (Civil) CPWD Karan with letter no. 20/142/PS/KCC/2016/2582 dated 23.06.2016 was discussed and it was resolved that the work should be completed within sanctioned revised estimate being approved by the B&WC and subsequently FC & BOG.

2. To discuss the drawings of Toilet & Kitchen in the married hostel and common toilet in single room hostel (Multi-purpose Hostel - 300 seats) for physically disabled person.

The drawings received from the Chief Architect (NRI), CPWD, Chandigarh with letter no. CA-NR-1001/2016/365 dated 23.06.2016 were discussed and it was resolved that the CPWD may be intimated to adjust the new requirement of toilets for physically disabled persons vide MUD circular within the sanctioned plinth area of building as per already approved architectural drawings.

3. To discuss the Proposals under the Centrally Sponsored Scheme of construction of Hostels for OBC (Boys and Girls) during financial 2016-17.

A letter no. 11015/04/2016-EO-I dated 16.05.2016 as received from the Deputy Secretary, Govt. of India, Ministry of Social Justice and Empowerment, Department of Social Justice and Empowerment was discussed and it was resolved that the Chief Wardens (Boys & Girls) may be requested to give their requirements of Hostel for OBC (Boys & Girls) during financial year 2016-2017.

4. To discuss 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. 77,76,610/-
 - (iii) Providing Audio System in Board Room of New Admn. Building at NITK for Rs. 12,63,360/-

The Revised Preliminary Estimates received from the Superintending Engineer (P) CPWD Chandigarh vide letter no. 23/130/ACCEC/2016 1/023 dated 20.05.2016 were discussed and it was resolved that the CPWD be informed to re-examine these revised estimates as per the expert opinion of Sh. K.N. Rai, Former Chief Secy. & Advisor, Ministry of Defense, DRDO, New Delhi (copy attached).

5. **To discuss a letter received from Security Officer regarding provision of wash room and drinking water facility at KUK Gate and Kirmach Gate no.-2 at NITK.**

A letter No.SO/06/2016/99 dated 02.06.2016 received from Security Officer regarding provision of wash room and drinking water facility at KUK Gate and Kirmach gate No.-2 was discussed. EAC was informed that a letter no. CC/3506/100 dated 10.02.2016 had been sent to Prof. S.K. Patidar, Prof. Civil Engineering Department for expert opinion to use septic tank or any other option. It was resolved that Prof. S.K. Patidar, Prof. Civil Engineering Department may be reminded to give his expert opinion in this regard

6. **To discuss a request received from Asstt. Prof. Manish Kumar Jha, Department of Business Administration at NITK – regarding to replace western toilet by Indian toilet.**

A request was received from Asstt. Prof. Manish Kumar Jha, Department of Business Administration to replace western toilet by Indian toilet. The matter was discussed and it was resolved that the conversion of existing OWC seat is only allowed into EWC seat on the recommendation of Senior Medical Officer, Health Centre, NIT, Kurukshetra. Further it was also resolved that as per present scenario, EWC seat may not be converted into OWC seat.

7. **To Discuss a request received from Head of Department of Computer Engineering Department – regarding restore the dismantled partition wall between room no. 101 & 102**

A request was received from the Head of Computer Engineering Department – regarding restoration of the dismantled partition wall between room no. 101 & 102. The matter was discussed and it was resolved that D.R. (GA & Legal) may be requested again to intimate about the legal opinion already sought in reference to letter no. CC/3506/101 dated 10.02.2016 in this regard. The matter is deferred till the receipt of legal opinion.

8. **To Discuss a letter received from Prof. I/C (T&P) Cell regarding – One Separate door is required.**

A letter was received from Prof. I/C (T&P) Cell – regarding provision of one separate door in Training & Placement. The matter was discussed and it was resolved that the request regarding provision of extra door in the corridor of T & P Cell was not acceded to. However, it was also resolved that the company officers may use VIP toilet. It was further resolved that feasibility of installation of one or more urinal pot in the VIP toilet may be explored.

9. **To discuss a letter received from Chief Electrical Inspector to Govt., Haryana, Chandigarh.**

A letter received vide Endst. No. 1192-1207 dated 18.03.2016 from Chief Electrical Inspector to Govt. Haryana, Chandigarh regarding "Self certification of electrical installation of owner up to 33 KV" was discussed and it was resolved that CPWD be asked to provide safety certification of all electrical installations at NIT, Kurukshetra in compliance with Central Electricity Authority (CEA) (measures relating safety of electric supply) Regulations, 2010. Further, it was resolved that a copy of communication with the CPWD be also sent to Chief Electrical Inspector, Haryana.

10. **To discuss a letter received from Prof. I/C (EM) regarding – installation and maintenance of RO Systems/Water Coolers.**

A letter no. EM/NITKKR/2016/187 dated 03.05.2016 received from Prof. I/C (EM) regarding installation and maintenance of RO Systems/Water Coolers in the institute was discussed and resolved that all HoD's, Head of Sections and Coordinators be authorized to purchase and install the water cooler along with water purifier and maintain themselves as per the requirements. However, routine maintenance related to electric supply and water supply provisions will be provided by Estate Section.

11. To discuss an E-mail received from Management Division (Technical Section-V) Ministry of Human Resource Development, New Delhi - regarding use of Energy Efficient Electrical Appliances.

An E-mail dated 25.04.2016 received from Management Division (Technical Section-V) Ministry of Human Resource Development, New Delhi - regarding use of Energy Efficient Electrical Appliances was discussed. Prof. IC (EM) approved the Committee that in most of the old academic blocks of NIT, Kurukshetra electrical fixtures have been replaced with energy efficient LED fixtures and energy efficient fans (having capacity of 30 to 36 W). Further, it was resolved that Electrical maintenance section be authorized to replace the defective electrical fixtures in the Institute with energy efficient LED fixtures as per future requirements, in accordance with the guidelines provided by the Management Division, (Technical Section-V) Ministry of Human Resource Development, New Delhi - regarding use of Energy Efficient Electrical Appliances.

12. To discuss a letter received from SAS Officer - regarding 3 feet fencing over the boundary wall of Swimming Pool at NITK.

A letter no. SI/380 dated 23.04.2016 from SAS Officer was discussed and it was resolved that the concrete rail may be provided over the existing boundary wall of the swimming pool from safety point of view. Further, it was also resolved that the expenditure of this work may be charged from the savings of the work of providing concrete rail over the Institute boundary wall within the approved A/E & ECR already communicated to the CPWD.

13. To discuss the minutes of meeting held on 06.04.2016, received from Executive Engineer (Elect.), CPWD, Karnal regarding on-going electrical works.

Minutes of meeting held on 06.04.2016 at NIT, Kurukshetra received from Executive Engineer (Elect.), CPWD, Karnal vide letter no. 20(30/KCE)/2016/957 dated 21.04.2016 regarding on-going electrical works were discussed and resolved that Prof. IC (CCN) and Prof. IC (Telephone) be requested to coordinate with Executive Engineer (Elect.), CPWD in the light of the earlier resolution of FAC communicated vide letter No. CC/3500/56 dated 27.1.2016 to ensure successful completion of the project. Further it was resolved that Prof. IC (CCN) and Prof. IC (Telephone) may be included as Special invitees in FAC meetings in future for improving the coordination in various infra-structural works. It was also resolved that CPWD may complete disempering/ painting under the work of replacement of electrical wiring in the instructional building a ready conveyed vide letter no. CC/3014/4760 dated 05.06.2016.

14. To discuss the finally proposed ramp layout plan at various locations surrounding the premises of parking area of BT & CT type residents at NITK.
(i) Various requests received - Regarding provision of ramps in the parking of multistorey building (CT/BT Types)

Various requests for provision of ramps in the parking area received from the residents of BT & CT type houses were discussed and it was resolved that ramps at different locations surrounding parking areas of BT & CT type residences as proposed in the report submitted by the Committee consisting of Prof. IC (ESC), Prof. IC (FM), Prof. IC (H&L) and A/E (Civil) be allowed to be executed by the Estate Section (drawing sketch enclosed).

15. To discuss a letter received from Principal Technical Officer, Central Workshop - regarding for converting Electrical room (adjacent to wash room) into Girl's washroom.

A letter received from Principal Technical Officer, Central Workshop vide no. W/S/2019/212 dated 11.07.2016 - regarding converting Electrical room (adjacent to wash room) into girl's washroom, was discussed and it was resolved that the said room may be converted into girl's washroom by the estate section.

16. To discuss a request received from Dr. D. P. Singh, Professor & Head of Chemistry Department – regarding widening of Main Gate of House No. BB-12

A request received from Dr. D.P. Singh, Professor & Head of Chemistry Department vide letter no. CH/16/469 dated 12.07.2016 – regarding widening of Main Gate of House No. BB-12, was discussed and the request was not acceded.

17. To discuss a letter received from Wardens Abhimanyu Bhawan, Hostel No. 1 NIT, Kurukshetra regarding theft in solar panel installed on the roof of Hostel No. 1

A letter received from Wardens Abhimanyu Bhawan, Hostel No. 1 NIT, Kurukshetra vide no. H-1/442/2016 dated 13.07.2016 regarding theft of solar panel installed on the roof of Hostel No. 1 was discussed and it was resolved that the inventory of the fixtures of solar water heating system (in the present condition) on the roof top of the hostel be handed over to the concerned hostel authority through Chief Warden (Boys & Girls).

It was further resolved that the inventory fixtures of cold water tank supply pipe line to the solar water-heating system installed in the hostels (H-1 to H-9 boys & H-1 to H-2 girls) already conveyed vide letter no. CC/3502/08 dated 10.02.2015, be handed over to respective hostel authority through Chief Warden (Boys & Girls).

In future hostel authorities should communicate theft related matters to Professor In-charge Security and Registrar.

18. To discuss a letter received from Under Secretary to the Government of India, MHRD, Department of Higher Education Technical Section-I – Regarding Financial assistance for undertaking various activities for PwDs under Scheme for Implementation of Persons with Disabilities Act, [SIPDA].

A letter vide no. 54-2/2016-ST.1 dated 27.06.2016 received from Under Secretary to the Government of India, MHRD, Department of Higher Education Technical Section-I – regarding Financial assistance for undertaking various activities for PwDs under Scheme for Implementation of Persons with Disabilities Act, [SIPDA] was discussed. FAC was apprised that the work of provision of lifts for persons with disabilities (PwD) at various locations in the Institute has already been allotted to the CPWD for execution and funds are being received from Plan Grant of MHRD, GOI and resolved that there is no need of separate financial assistance from the Scheme for Implementation for Persons with Disabilities Act, [SIPDA] as referred above.

19. Various requests received regarding the problem of hot water supply during summer in the multistory residence (CT/BT type)

Various requests received regarding the problem of hot water in the water supply pipe line instead of normal water during summer period in the multistory residence (CT/BT type) was discussed and it was resolved that G.I. water supply pipeline laid on terrace of the building may be wrapped with insulating material to keep the water at normal temperature through Estate Section.

20. To discuss letter received from A.E.E. 'Op' Sub-division No.-2 Kurukshetra vide memo No. 1944 dated 29.01.2016 – Regarding Enactment of sales circular no. 15/2015 dated 08.06.2015.

A letter received from A.E.E. 'Op' Sub-division No.-2 Kurukshetra vide memo No. 1944 dated 29.01.2016 – Regarding Enactment of sales circular no. 15/2015 dated 08.06.2015 was discussed. Prof. I/C (EM) informed that institute has taken connection of 4560 KW which is served through three nos, 11 KV Electrical Sub Stations and capacity of connection was decided on the basis of rating of the transformers installed in these sub stations. The capacity of these transformers was kept high in view of future expansion of electric load at NIT, Kurukshetra. Till, date these transformers are operating at 10%-30% of their rated capacity. Therefore, there is a scope of future expansion of load within NIT premises without exceeding the limit of load sanctioned by UHBVN. There is no requirement of upgrading the connection capacity and voltage level at present as suggested by AEE 'Op' UHBVN. Hence, it was resolved that a letter be written to the AEE 'Op' UHBVN stating that

21. To discuss a letter - Regarding Separate metering of Director Residence (A-1) and letter received from Prof. IC (EM) vide no. EM/2016/NITK/42 dated 05.02.2016

A letter no. EM/2016/NITK/42 dated 05.02.2016 received from Prof. IC (EM) - regarding Separate metering of Director Residence (A-1) was discussed and it was resolved that a separate electricity metering be done in Director Residence excluding old camp office, extension part of camp office at 1st floor servant room, security room & surrounding portion. It was further resolved that payment of electricity bill of Director Residence excluding the portions mentioned above will be borne by the Director of the Institute.

22. To discuss the utilization of old DG Sets and small transformers.

The matter regarding utilization of old DG Sets and transformers was discussed. Prof. IC (EM) informed the committee that a number of small DG sets and transformers are lying redundant in the section due to installation of new infrastructure. CPWD has set up three 11 KV sub-stations of 7700 KVA capacity in 2012 and has installed DG backup of 3750 KVA capacity in the sub-stations in year 2015. The redundant DG Sets and transformers (list attached) were in use prior to commissioning of these works. Now there is no use of these equipment in near future. Since, the equipment are in good condition, it is recommended to auction them.

23. To discuss regarding Provision of stair case in BB (new) single storey type houses to carry out the maintenance work at roof top.

This item was dropped in the light of the earlier decision taken in the 18th BSWC meeting vide item no. 18.4 dated 09.12.2013 which states that the provision of staircase be made only in double storey BA, BB, BC, CA, CD & CC types residential houses.

24. To discuss regarding Provision of AC in lecture rooms of LHC Block, Civil Engineering Department, Mechanical Engineering Department & Ground floor of Electrical Engineering Department of the Institute.

The matter regarding provision of AC in lecture rooms of LHC Block, Civil Engineering Department, Mechanical Engineering Department & Ground floor of Electrical Engineering Department of the Institute was discussed and it was resolved that a letter be sent to CPWD for checking the feasibility of proposal and also to provide the cost estimate for air conditioning of all lecture halls (having capacity of more than 50 students) of the Institute.

25. To discuss a request received from the Chief Warden (Boys) regarding AMC of lifts and fire extinguishers of Hostel no.-10

A request received from the Chief Warden (Boys) vide letter no. CWC/2016/724 dated 19.07.2016 regarding - The AMC of lifts and fire extinguishers of Hostel no.-10 involving annual maintenance of about Rs 10 lacs was discussed and it was resolved that the AMC of lifts and fire extinguishers be done by the Hostels at their own level. The expenditure on account of AMC of lifts and fire extinguishers of Hostel no. 10 may be borne by the Institute.

26. To discuss a request received from HoD, Civil Engg. Department regarding - Construction of Washroom in the Conference Room & in the office of Head of Department

A request received vide no. CE D/2016/555 dated 25/26.07.2016 from HoD, Civil Engineering Department regarding - Construction of Washroom in the Conference Room & in the office of Head of Department was discussed and it was resolved that the said work is not feasible as per prevailing site conditions and hence this item was dropped.

- 27 To discuss a letter regarding Furniture for Hostel (Rooms, P.G. Rooms, Offices, Dinning Hall, Kitchen etc.) for the construction of 300 seater Multi-Purpose Boys Hostel i/c 100 suites for foreign students, research scholars and married PG students at NITK.

A letter received vide no. 24(43)/KCD/2016-17/193 dated 01.08.2016 regarding furniture for the construction of 300 seater Multi-Purpose Boys Hostel (Rooms, P.G. Rooms, Offices, Dinning Hall, Kitchen etc.) i/c 100 suites for foreign students, research scholars and married PG students was discussed. It was resolved that the Chief Warden (Boys) be communicated for sending the requirement of furniture for the above said hostel at the earliest.

28. To discuss the letters received from Chief Engineer, CPWD, Chandigarh regarding Revised Preliminary Estimate (RPE) as per prescribed rules/format of government of India and adopted all over India i.e. appendix -9 of CPWD works manual -2014, Central Public account code para 330-332 is applicable for all the government of India departments and its compliance is mandatory.

The letters received from Chief Engineer, CPWD, Chandigarh vide no. 23(390)/SE(P)/EE(P)/4120-4121 dated 14.07.2016 regarding Revised Preliminary Estimate (RPE) as per prescribed rules/format of government of India and adopted all over India i.e. appendix -9 of CPWD works manual -2014, Central Public Account Code para 330 -332 is applicable for all the government of India departments and its compliance is mandatory. The matter was discussed and it was resolved that the same may be put-up before the ensuing B&WC meeting.

29. To discuss the colour scheme for 300 seater multipurpose hostel (Married Hostel side & Single room hostel side) received from Executive Engineer, CPWD, Chandigarh

The colour scheme for 300 seater multipurpose hostel (Married Hostel side & Single room hostel side) received from Executive Engineer (Civil), CPWD, Karnal vide letter no. 54(NIT)/PS/KCD/2016/3199 dated 06.08.2016 was discussed and it was resolved that the samples of both the colours scheme be applied at the site on the walls for finalization of colour scheme and the same be communicated to the CPWD

30. To discuss a letter received from A.E. (Civil), CPWD regarding Construction of Boundary wall and Guard Room for 300 seater multi-purpose hostel at NITK.

A letter received from A.E. (Civil), CPWD regarding Construction of Boundary wall and Guard Room for 300 seater multi-purpose hostel vide no. 24(43)/KCSD/ 2016-17/197 dated 03.08.2016 was discussed and it was resolved that the proposal be approved and the work be completed within revised sanction of A/A & E/S which is being approved by the B&WC and subsequently by the FC & BOG.

31. Any other item:

(i) To discuss regarding release of final payment of the work of Cold Water Tank Supply Line to the solar water heating system installed in the hostel no.1 to 9 boys hostel, Girls hostel no. 1 & 2 at NITK.

The matter was discussed and it was resolved that the whole matter be apprised to the Hon'ble Director. The inventory of the work of cold water tank supply pipe line to the solar water heating system installed in boys hostels no. 1 to 9 and girls hostels no. 1 & 2 has already been sent to Chief Warden (Boys) and Chief Warden (Girls) vide letter no. CC/3502/08 dated 10.02.2016. The Chief Warden (Boys) and Chief Warden (Girls) be requested to take over the inventory of the above said work, so that final payment of the work of Installation of cold water tank supply pipe line to the solar water heating system installed in the hostel no. 1 to 9 boys hostel, girls hostel no. 1 & 2 be released to CPWD without further delay.

- (ii) To discuss a request received from HoD, Mechanical Engineering Department – regarding interrupted water supply.

A request was received vide letter no /MED/16/1333 dated 03.08.2016 from HoD.

The request was discussed and was agreed to for the water supply to be maintained from 05.00pm to 02.30pm on 10th Dec 2016. On 10th Dec 2016pm Water supply will not be available from 02.30pm to 04.00am and from 04.00pm to 05.00pm. It was also resolved that shade water cover sheet paper must only be filled in new paper sent by Estate Section to separate rendering & shade sheet usage. This system will be reviewed after 3 months.

- (iii) To discuss the matter regarding funds requirement for the work of distempering, painting and external snowcent in the hostel nos 7, 8 & 9.

The matter was discussed and resolved that the Estate Section may submit estimate of distemper & painting of the external & internal flooring for the host buildings i.e. Hostels No. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 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990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

- (iv) To discuss a letter received from Assistant Engineer (Civil), Central sub-division, CPWD, Kurukshetra - regarding provision of modular kitchen in 300 seater multi-purpose hostel, single room for boys and married accommodation.

A letter no. 24423-62816701, 17/03/2016 dated 12/03/2016 received from Assistant Engineer (Civil), Central sub-division, CPWD, Kurukshetra - regarding provision of modular kitchen in 300 seater multi-purpose hostel, single room for boys and married accommodation was discussed. The provision for providing modular kitchen has already been made in the structural design & drawings and revised estimate of CPWD. Since the structural work of the hostel is now completed, it is proposed that the modular kitchen should be provided in 300 seater multi-purpose hostel.

- (v) To discuss the estimate received from Executive Engineer (Civil), Karnal Central Division, CPWD, Karnal - regarding Partition of dining area from recreation area in the 600 seater Girls Hostel (Multi-storied) RCC framed structure (Ground +5) at N.T, Kurukshetra.

The cost estimate of Rs. 2.27,500/- received from Executive Engineer (Civil), Karnal Central Division, CPWD, Karnal (a letter no. 20142) / PCTCD 2016/3239 dated 08/03/2016 - regarding Partition of dining area from recreation area in the 600 seater Girls Hostel (Multi-storied) RCC framed structure (Ground +5) was discussed. The cost estimate of Rs. 2.27,500/- is only for one side of the room partitioning along the wall. As per the discussion with Chief Warden (Girls), it was proposed to provide two similar partitioning partly glazed and partly with perforated board on either side of the corridor only in the recreation area and provision of 4 nos. glass doors in the main corridor to separate the dining area and recreation area for separate groups of hostel. The same was discussed in PAC. LAC resolved that CPWD should be communicated to submit the revised cost estimate in the future.

Meeting ended with thanks & prayer.

Prof. PC (H&L) Prof. PC (S&C) A.E. (Civil) A.E. (Elect.)
Dean (Estate) Prof. Civil Engrg Deptt. Prof. PC (E&C) Prof. PC (H&M)
Dean (P & M) & Chairman & A.C.I.

It is requested that above recommendation of Estate Affairs Committee may be approved please

Submitted for your consideration & approval please.

Registrar IC

[Signature]
24/05/14

DIRECTOR

[Signature]
24/05/14

[Signature]
Dean (Estate)

Dean (Estate)

[Signature]
20.08.2014

PIE / ELC

[Signature]
24/05/14

RIE/EC

[Signature]

[Signature]
20/08/14

13

27/07/14

The administrative approval and expenditure sanction for the work of construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers was conveyed to CPWD for an amount of Rs. 245.00 lacs vide letter no. CC/20/97 dated 07/08.01.2013. The work was awarded to the contractual agency for execution by CPWD vide letter No. 54(NIT)/KCD/2013/2639 dated 03.10.2013 with a time limit of 270 days. The actual date of start of work was 10.10.2013 and the stipulated date of completion was 09.07.2014 and actual date of completion was 11.09.2014. Thereafter, the CPWD submitted preliminary revised cost estimate through Superintending Engineer (Civil), CPWD, Chandigarh for an amount of Rs. 2,95,03,388/- vide letter no. CCC/23(4515)/NIT-3/217 dated 15.01.2016. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2016.

In the light of the decision of 21st Building & Works committee, the CPWD submitted the final completion cost of this work with detailed justification for an amount of Rs. 2,96,48,649/- vide letter No.20(142)/PS/KCD/2016/2278 dated 3.6.2016 & CCC/23(4515)/NIT-3/1813 dated 07.06.2016. The same was put up before External Technical Committee meeting held on 13.6.2016 in the Board Room of Golden Jubilee Administrative Building NIT, Kurukshetra. The External Technical Committee discussed the final completion cost in detail and decided as under:-

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order.

The Building & Works Committee may consider and approve the final completion cost estimated for the work of construction 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra with an estimate cost of Rs. 2 96,48 649/-

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136 119

No. CC/20/167

Dated: 07/01/2013

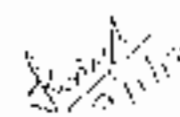
The Executive Engineer (Civil)
Central Public Works Department
Karnal Centre Division
44B, Subhash Colony
Karnal

Subject: Administrative approval & Expenditure sanction for the Construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers.

Reference: MoU dated 20.12.2012 & approval of the Hon'ble Director on dated 04-01-2013

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under:

Sr. No.	Name of Work	Amount RLC (Rs. In Lacs)
1	Construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers.	Rs. 245.00 (Rs. Two Hundred Forty Five Lacs Only)


 Dean (Estate)
 For Director

Copy to

1. SS to Director for the land information of the Hon'ble Director
2. Chief Engineer (NZ) Chandigarh CPWD, Kendrya Sadan, Sector-9-A, CPWD, Chandigarh
3. SF (Elect.) Chandigarh Central Electrical Circle, Kendrya Sadan, Sector-9-A, CPWD, Chandigarh
4. SE (Civil) Chandigarh Central Circle, Kendrya Sadan, Sector-9-A, CPWD, Chandigarh
5. Executive Engineer (Elect.), Central Public Works Department, Karnal Centre Electrical Division, 20-A Indira Colony, Karnal-132002
6. Registrar
7. P.O. (E & C)
8. P.O. (EM)
9. DR (Asst)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect.)
13. J.E. (Civil)


 -66-

Preliminary Estimate for Construction of 3 story 6000 sq. ft. building consisting of 22 blocks to accommodate 96 teachers

On the basis of rates as per CPWD
15 storyed load bearing construction

Total plinth area for 22 blocks = 6000 sq. ft. x 22 = 132000 sq. ft.
Less: Plinth area with attached tanks = 10000 sq. ft. (approx.)
Considered for estimate = 122000 sq. ft.

CPWD plinth area rates as at 01-10-2000 = 27% B.B. (approx.)

(i)	Load bearing construction (Blocky)	Rs.	6500 / sq. ft.
	+ 33%	Rs.	10000 / sq. ft.
	Total	Rs.	7000 / sq. ft.

Total Cost = 2200 x 7000 = Rs. 15400000

Services :-

(i)	Internal water supply, sanitary installations @ 10%	Rs.	100000
(ii)	External Service connections @ 5%	Rs.	50000
(iii)	Internal electric installations @ 15.0%	Rs.	231000
	Total	Rs.	381000
	Grand Total	Rs.	15781000
	5% Contingency	Rs.	789050
	Total	Rs.	16570050

AS

7

10-10-2000

Seen by Engineer
M. T. Kulkarni

It is important to note that the well-known fact that the first derivative of a function is zero at a local maximum or minimum does not imply that the function is constant in the neighborhood of the extremum.

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- [illegible]

Abstract:

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: HARYANA

DIVISION: KARNAL CENTRAL

BRANCH: B&R

Name of work:- Construction of 3 storey bearer barracks comprising of 2 blocks including electrical installations at NIT, Kurukshetra (Haryana).

Major Head:

Minor Head:

Detailed Head:

This Revised preliminary estimate framed by Er. Varun Kumar, Executive Engineer, Karnal Central Division, CPWD, Karnal and further processed by Er. R.K.Gandhi, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh of the probable cost of Rs.2,95,03,388/- i/c 3% contingencies.

REPORT

History: This draft Revised preliminary estimate amounting to Rs.2,95,03,388/- i/c 3% contingencies has been framed to cover the probable cost of the above noted work and for accord of revised A/A & E/S from the competent authority. The requisition for this estimate has been received from NIT authorities vide their letter No. CC/3506/93/4743 dated 31.08.2015. The revision is required due to the fact that the total A/A & E/S amounting to Rs. 245.00 lacs earlier issued by NIT authorities vide their letter No. CC/20/97 dated 07-01-2013 was based on preliminary estimate prepared by them on PAR 2007 duly enhanced by 25% for cost index not including Service Tax & being the Principal Employer, CPWD is to reimburse the same to the agency executing work. Also there is significant increase in cost of material & labour during the period between receipt of original A/A & E/S & start of work. Hence Revised preliminary estimate has been framed based on PAR-2012 duly enhanced with approved cost index as on 01-07-2014 & including Service Tax to obtain the revised A/A & E/S from the client deptt.

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

1. RCC framed structure upto six storeys.
2. Resisting earthquake forces.
3. Internal water supply & sanitary installations and external service connections.
4. Internal electrical installations and external service connections

Specifications: The work shall be carried out as per CPWD specification 2009 Vol-I to II with upto date correction slips.

Rate: Based on PAR 2012 duly enhanced with approved cost index 109 as on 1-7-2014.

Amount: Rs.2,95,03,388/- i/c.3% contingencies.

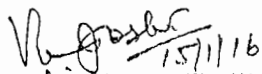
T&P: Shall be arranged by contractor.

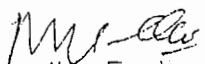
W.C.Estt.: Shall be met out of contingencies.

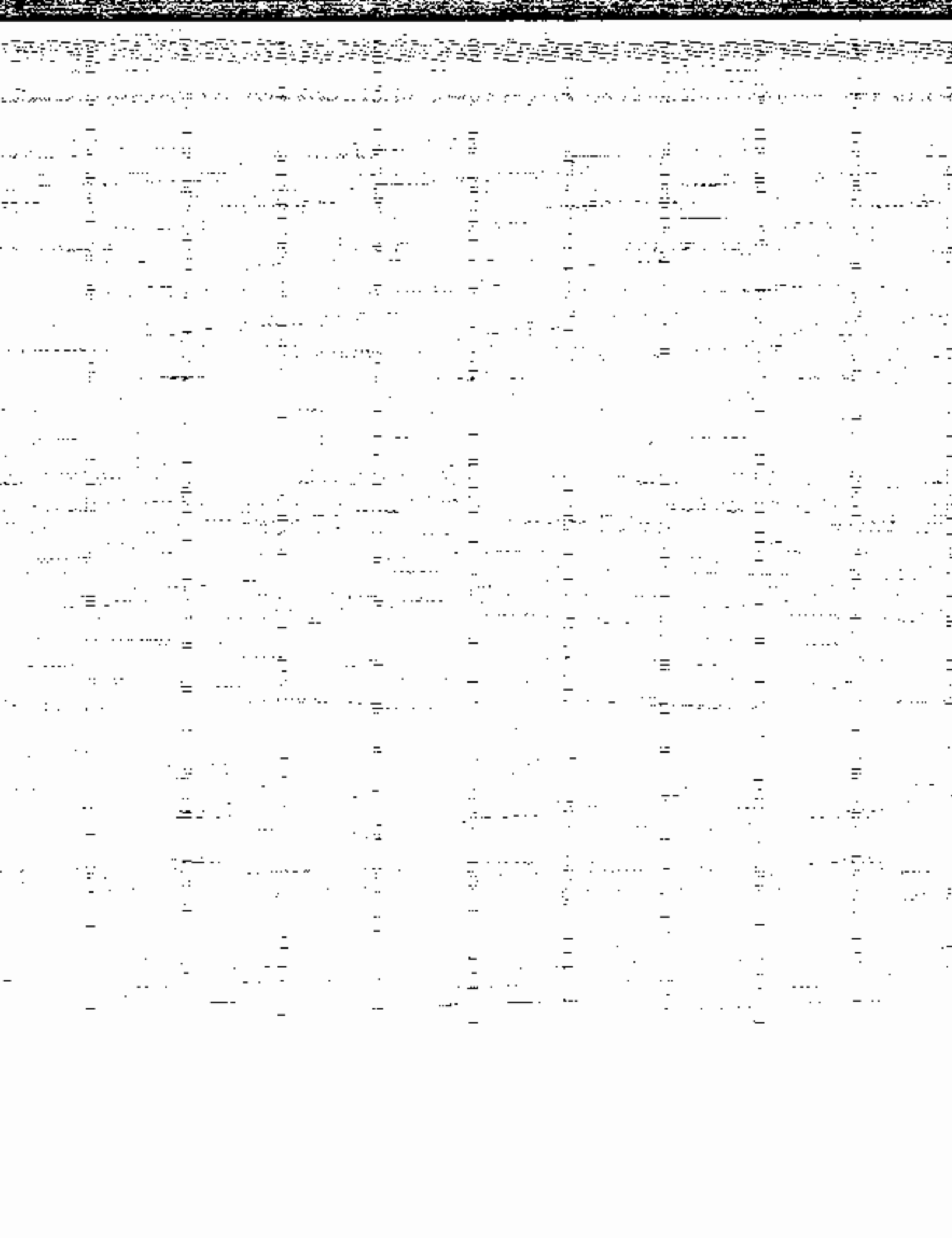
Land: Available.

Method: By contract after call of tenders.

Time allowed: 270 days


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


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



ABSTRACT OF CDS

Name of work:- Construction of 3 storey bearer barracks comprising of 2 blocks including electrical installations at NII Kurukhela (Haryana)

Sl. No.	Item Code	Description of Items	Unit	Original Estimate			Revised Estimate			Explanations
				Qty	Rate	Amount	Qty	Rate	Amount	
		As per N/A & E/S given by client deptt.			PAR-2007			PAR-2012		
1		R.C.C. FRAMED STRUCTURE (Specifications as per Annexure-2)								
1.1	1.1	R.C.C. framed structure upto six storeys.								
1.1.1	1.1.1	Floor height 2.00mtr. (Hostels)	sqm				1092.37	5500	25410300	
1.2	1.2	Extra for								
1.2.1	1.2.1	Every 150mm additional height of floor above normal floor height of 2 storey (For Rs 2700 30x30 40) =Rs 352/-	sqm				1637.56	352	535522	
1.2.4	1.2.4	Resisting Earthquake forces.					1634.07	1140	7031195	
2		LOAD BEARING CONSTRUCTION								
2.1	2.1	Three storied Type-I, II, III and Service counters	sqm	2300	7900	18372400				
		(Rs 6090/-x75%=7180/-)								
		SERVICES								
3.13	3.13	Internal water supply & sanitary installations	7 sqm	15372400	12%	2704608	2566637	12%	2499287	
		Internal electrical installation (One Type-II)	8 sqm	18372400	12.50%	796550	7964402	12.50%	3243918	
3.2	3.2	External service connections	7 sqm	18372400	5.00%	518520	7599912	5.00%	1750901	
		Total:				22757208			2778096	
		Add 5% contingencies				713760			3187580	
		Total				24500968			3823824	
		Say Rs 245 lacs.					Add Service charges 5.00%		2217817	
		Total:							41456150	
		Add 1% contingencies							1213462	
		Total:							41569742	
		Restricted to actual expenditure = Rs.2.95 01 000/-								

[Signature]
Assistant Engineer (P&I)
CCO, CPWD, Chandigarh

[Signature]
Executive Engineer (P)
CCO, CPWD, Chandigarh

Revised preliminary estimate amounting to Rs.2 95,01 342/- (Rupees Two crore ninety five lakh three thousand three hundred & forty six only) is hereby submitted to C/P (NZ) for onward submission to client department for record of revised A/A & E/S of competent authority.

[Signature]
Superintending Engineer
CCO, CPWD, Chandigarh

- 21.5 To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2016.

- 21.6 To consider and approve the Revised Cost estimate for various re-carpeting of roads:

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
- d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2016.

- 21.7 To consider and approve the Revised Cost estimate for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

- 21.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at –NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016.

केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय नक्कल
एन.डी.आर.आई. कॉम्पस करनाल

पु.सं. ५४९
दि. ०६.०६.१६

संख्या- 20(142)/लो.शा./क.के.सं/2016/22238

दिनांक ०६-०६-१६

सेवा में,

Dean (Estate),
NIT, Kurukshetra

विषय : Construction of 3 storey bearer barracks comprising of 2 blocks including electrical installation at NIT Kurukshetra.

संदर्भ : 21st BWC meeting with NIT authorities on dated 27.05.2016.

During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification and detailed revised cost Estimates of the above said work for which revised Preliminary Estimate has already been submitted by the CPWD.

Justification for this work is as detailed below:-

The original Preliminary Estimate for this work was framed by NIT authorities for Rs. 245.00 lacs and A/A & E/S amounting to Rs. 245.00 lacs was received vide letter no. CC/20/97 dated 07.01.2015.

The work got physically completed with completion cost of Rs. 296.49 Lacs. The revised preliminary estimate was submitted to NIT authorities vide this office letter no. 20(142)/KCD/3509 dated 30.12.2015. But during the 21st BWC meeting held between CPWD and NIT authorities it was decided to submit revised detailed estimate along with justification for the increase in the cost. Hence revised detailed estimate amounting to Rs. 296.49 Lacs has been submitted to your office vide letter no. 24(35)/ल.इ.क./2016/139 दिनांक 03.06.2016.

The Justification for increase in cost with detailed reasoning is as below:-

The A/A & E/S for above cited work was given by the NIT authorities for Rs. 245 lacs. The preliminary estimate for which A/A & E/S was given for the work of construction of 3 storied bearer barracks and preliminary estimate was framed based on PAR-2007 taking in consideration it as load bearing structure.

But during processing and designing of the above said work the actual execution by CPWD was done by designing this building as RCC framed structure. Architectural and structural drawings for this work were got approved from NIT authorities and construction done accordingly. As there is much difference between load bearing PAR rate and RCC framed structure



plant area rates. Due to this reason the actual expenditure on this worked out to be Rs. 7,96,48,649.00 which works out to be 21.01% above the sanctioned amount.

Hence it is requested to approve the revised AA & ES for the above said work.

Encl: Copy of preliminary estimate.

कार्यपालक अभियंता
जलवायु केंद्रीय मण्डल
जे.लौ.नि.वि. कारनाल

प्रतिनिधि :-

1. राष्ट्रीय अभियंता, राष्ट्रीय केंद्रीय परिमण्डल, जे.लौ.नि.वि., सेंटर-१ए, केंद्रीय सदन, राष्ट्रीय को सुचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. सहायक अभियंता, पुरुक्षेत्र केंद्रीय उप-मण्डल, जे.लौ.नि.वि., पुरुक्षेत्र को उनके पत्र सं० 24(38)/A.E./2016/39 दिनांक 03.06.2016 के संदर्भ में सुचनार्थ प्रेषित।

कार्यपालक अभियंता

16/6/16

16/6/16

16/6/16

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
चण्डीगढ़ केन्द्रीय परिसर

केन्द्रीय सचिव, सेंट्रल-ए, चण्डीगढ़-160009

संख्या: च.के.ए.ए. 23(45)नि.उ/ 1817

दिनांक: 7/6/16

सेवा में,

The Registrar
National Institute of Technology,
Kurukshetra (Haryana)

विषय - Construction of 3 storey bearer barracks comprising of 2 blocks including electrical installations at NIT, Kurukshetra (Haryana).

सहायक,

Enclosed please find herewith the revised preliminary estimate amounting to Rs.298.49 lacs for the above mentioned work. This estimate is prepared as per direction received during 2nd B/W meeting held on dated 27.05.2016 jointly by CPWD and NIT authorities.

संलग्न: अनुमान (एक प्रतिलिपि)

अधीक्षक अभियंता,
चण्डीगढ़ केन्द्रीय परिसर,
के.लो.ने.नि., चण्डीगढ़

Copy to :

The Executive Engineer, Karnal Central Division, CPWD, Karnal for information & necessary action w.r.t. his office letter No.20/142/CPB/KCD/2016/2777 dated 3-6-2016.

अधीक्षक अभियंता,

Deputy Engineer
PH/ERL/PLS(EM)

7/6/16

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

Haryana

DIVISION: KCD

BRANCH: B & R

Est. No.: .../EE/KCD/2015-16

Name of works: Construction of 3 storey bearer barracks comprising of 2 blocks including electrical installation at NIT Kurukshetra.

Major Head	Minor Head	Detailed Head
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Revised Preliminary Estimate framed by Sr. Charanjit Pasrija, Executive Engineer, Karnal Central Division, CPWD, Karnal of the probable cost of Civil work Rs. 296.49/- lacs i/c 3% contingencies & 1% Labour cess.

REPORT

History: This Revised Preliminary Estimate amounting to Rs. 296.49/- lacs i/c 3% contingencies & 1% Labour cess, has been framed to cover the actual expenditure of the above noted work for obtaining Revised A/A & E/S from the Competent Authority. Earlier the A/A & E/S of the above said work had been received from client department vide letter no. CC/20/97 Dated. 07.01.2015 for amounting to Rs. 245.00 Lacs (Civil + Electrical). Hence this Revised Preliminary Estimate has been framed to obtain Revised A/A & E/S from the competent Authority. The revised detailed estimate has been framed as per directions received during 21th B.V. meeting held on dated 27.05.2016 jointly with CPWD and NIT authorities.

Design & Scope: The estimate framed on drawing Nos. CA(NR-1)/501/118 to 121 AE/O.

Following provisions have been made in the estimate as per drawings:-

1. RCC framed structure (G-3 storeyed building).
2. RCC framed structure (G-3 storeyed building).
3. RCC framed structure (G-3 storeyed building).
4. Brick work in common wall at clay FPS bricks of class designation 7.5 in foundation & super structure.
5. IS marked Door shutters confirming to IS:2201-35mm thick.
6. 25mm thick PVC flush door shutters in toilets & bath.
7. Pressed steel door frames confirming to IS:4351 for doors & windows.
8. Kota stone flooring in rooms, staircase, passage etc.
9. 1st quality ceramic glazed wall tiles confirming to IS:15622 in toilets.
10. 12mm & 18mm cement plaster 1:6 (1 cement - 6 coarse sand) inside & outside.
11. Premium acrylic exterior paint outside the building.
12. Internal premium acrylic emulsion.
13. Water proofing treatment - koba treatment.

Specification: The work has been carried out as per CPWD Specification 2009 Vol. I to II with up to date correction slips

Rate: Based on PAR 2012 plus cost index @ 9%.

Cost: Rs. 296.49/Lacs - i/c 3% contingencies & 1% Labour cess

Land: Available

W.C. Estt.: Shall be met out of 3% contingencies

Method: Through contract after calling of tender.

Time: Actual DOS.10.10.2013 and Actual DDC.11.09.2014.

Assistant Engineer (P)

(Signature)
21/6/2016

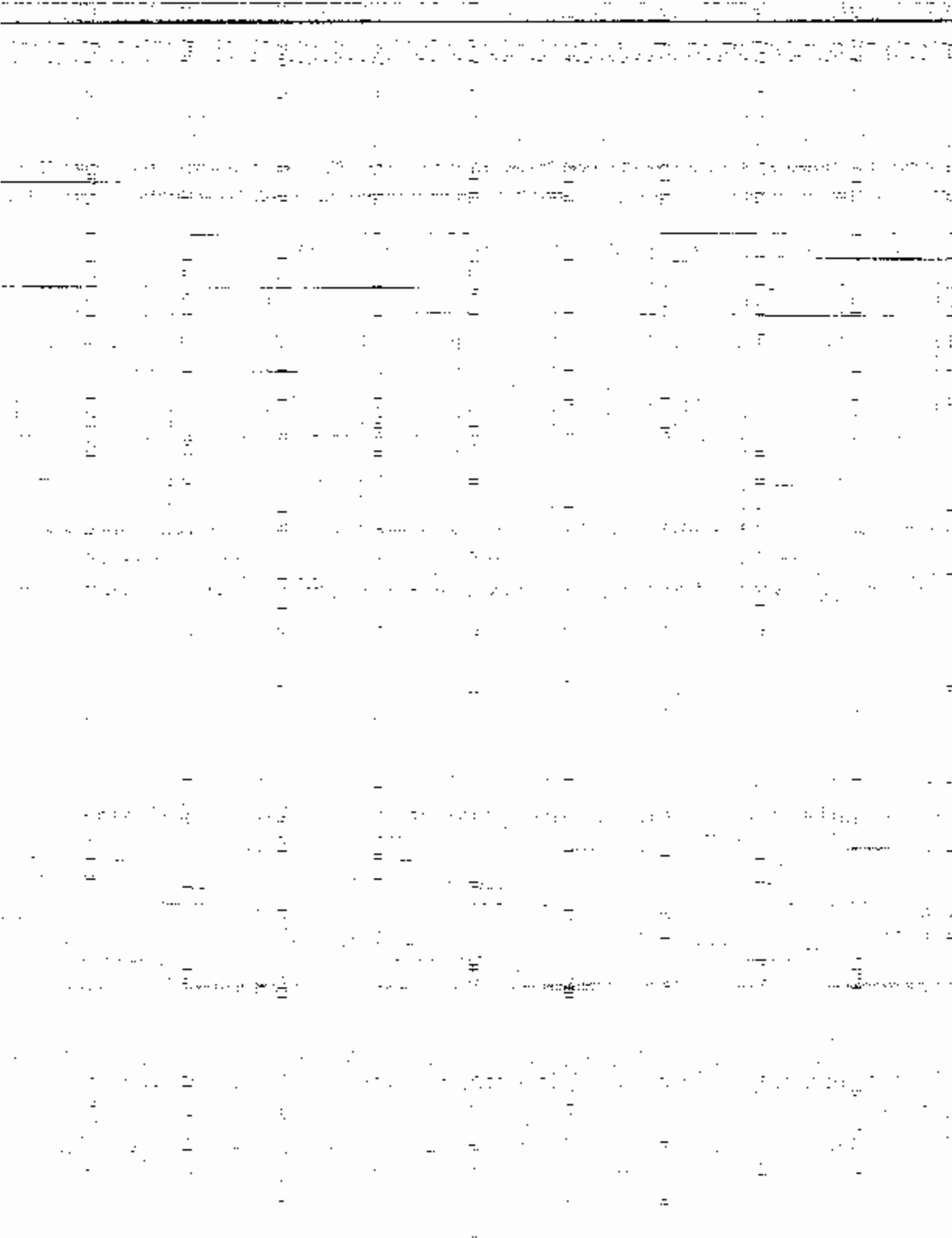
उपस्थित अधिकारी का कार्य
नियंत्रण के अन्तर्गत कार्य
के जो निवेदन के अन्तर्गत
वेकट ५-४ चरबीगाँव

Executive Engineer
Karnal Central Division
CPWD, Karnal.

(Signature)
21/6/2016

Ruined Preliminary Estimate (As per actual
 reproduction) amounting to Rs 26.49 lacs.
 (Rupees Two hundred ninety six thousand
 four nine two only) is hereby submitted to
 Chief Deptt for record of Ruined A/R 25/2
 please.

30/10/59
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Revised Estimate as per Actual Expenditure

State : Haryana
Branch : Karnal

DIV. : Karnal Central Division
Sub-Div. : Kurukshetra Central Sub Division

Name of Work: C/o 3 storey bearer barracks comprising of 2 blocks including electrical installation at NIT Kurukshetra.

S. No	Item Code	Description of Items	Unit	Original Estimate			Revised Estimate (Actual Cost)	
				Qty	Rate	Amount	Amount	Remarks
1					PAR-2007	In Rs.	In Rs.	
2	2	LOAD BEARING CONSTRUCTION		-	-	-		
2.1	2.2.3	THREE STOREYED TYPE I,II, III AND SERVENT QUARTERS		-	-	-		
		Rate/sqm =6390.00		-	-	-		
		Add @25% premium =6390*25%=1598.00		-	-	-		
		Total Rate/sqm =Rs. 7988.00	sq.mtr.	2300	7988.00	18372400.00		
						184 lacs		
3	3	SERVICES						
3.1	3.1A	Internal water supply & sanitary installations. (Hospitals) 12%	100 B.cost	184.00	12.00	22.00		As per actual execution i.e 5th and final bill amount AS per annexure A(attached).
3.2	3.2	External services connections. 5%	B.cost	184.00	5.00	9.00	24772532.00	
							1793447.00	Balance expenditure i.e 26565979-24772532=1793447.00 other expenditure such as contingencies, 10c, 10CA, service tax, labour cess etc.Details to be provided by division office.
3.3	3.3A	Internal electric installations. (Qtr. Type I) 12.5%	100 B.cost	184.00	12.50	23.00	3082670.00	Detail of Expenditure to be given by the Electrical division.
		Total				54.00		
		Say				238 lacs		
		Add Contingencies @3%				7		
		Total				245	29648649.00	
		Say			Rs.	245 Lacs	296.49 Lacs	As per expenditure statement

सहायक अभियंता (यो.)

महापंक अभियंता
चण्डीगढ़ केन्द्रीय मण्डल
के.लो.नि.वि. केन्द्रीय मण्डल
वैक्टर 3-ए चण्डीगढ़।

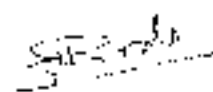
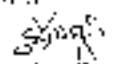
कार्यपालक अभियंता
करनाल केन्द्रीय मण्डल
के.लो.नि.वि. करनाल।

Name of Work is of 3 storey houses barracks comprising of 2 blocks.
including electrical installations at AIT, Kumbhstree.

Expenditure details of above noted work is as under as per monthly account May 2016 :-

1. Total Expenditure as per monthly A/c May 2016 = 26,55,979/-
2. Final bill Gross amount = 24,77,2532 (B)

3. I.e. 26,55,979 - 24,77,2532 = 1,78,726 (Expenditure.
Such as contingencies, I.O.C.,
I.O.G., Testing charges,
Service tax etc.)


Executive Engineer
Karnal Central Jail, Karnal
C.P.W.D. KARNAL

8/6/2016

and fixing 600x450 mm
 edged mirror of superior
 (of approved quality) complete
 12mm thick hard board ground
 to wooden cleats with C.P.
 screws and washers complete.

BF CMB05/ P - 82

79

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

एग्जीक्यूटिव इंजीनियर (ई),
केन्द्रीय लोक निर्माण विभाग,
200-वी.एन.एस.आई.आई. बिल्डिंग,
नई दिल्ली-110002
Email: cpwdcr[at]nic[at]gov.in
Fax: 011-2323467



Executive Engineer (E),
Central Public Works Department,
Bldg. 200-VI,
Email: cpwdcr[at]nic[at]gov.in
011-2323467

संख्या: 20 (7)/क.के.वे.मं./2016/1514

दिनांक: 21/05/2016

श्रीमान,

अधीक्षक अभियन्ता(ई),
कन्दीलकर केन्द्रीय वैद्य परिशेषाल,
मेडिकल/मिडिक, केन्द्रीय सदन,
भारतवाट

विषय: Revised Cost Estimates for the following works:-

1. Construction of 600 Seater Club House (Sixth Floor) Frame structure, Ground Floor & 5th Floor internal and external water supply, sanitary installation, Internal Electrical Installation, Drainage and Discharge system of the NIT Karnataka.
2. Construction of 300 seater new hostel for girls for college students at NIT Karnataka.
3. L.C.D. Club at University building, corner road of NIT campus at NIT Karnataka. (a) Providing and installation of 16/20 mm dia. Alight light of Safety Gravel and various other services at NIT Karnataka. (b) Providing Gate light, Sports lighting, Landscape lighting and cabling etc.)
4. 600 Three storeys Junior Barracks comprising of 600 beds to accommodate 900 students at NIT Karnataka. (a) Providing of 1 & 2

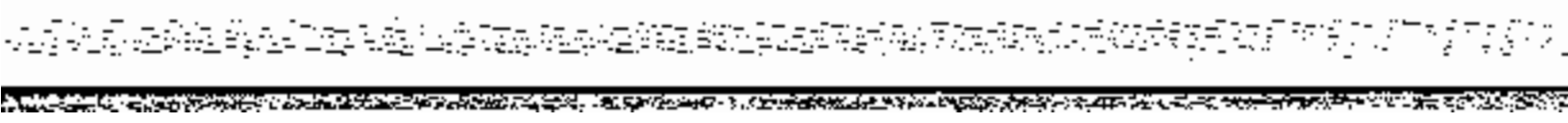
संदर्भ: BOWC Meeting held on 27/05/2016 in conference room at NIT Karnataka.

महोदय,

सम्बन्धित दस्तावेज में किए गए विवरणों के अनुसार कार्यवाही के संबंध में Revised Cost Estimates इस पत्र के साथ संलग्न कर आपके कार्यालय में उपस्थित कार्यवाही हेतु भेजा जा रहा है। कृपया प्रतिक्रिया दें कि क्या ज्ञात बाधाओं के कारण इनमें NIT Authorities को विचार करने की आवश्यकता है।

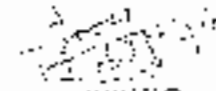
संलग्नक: उपरोक्तानुसार

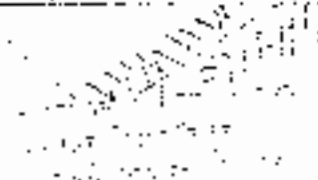
अधीक्षक अभियन्ता(ई),
कन्दीलकर केन्द्रीय वैद्य परिशेषाल,
मेडिकल/मिडिक, केन्द्रीय सदन,
भारतवाट



Revised Cost Estimate of 3 Storey, 120 Bedders for the Govt. NIT, Noida, India

S. No.	Name of Work	Qty. & Exp. Details	Standard Amount (Rs. per unit)	Total Quantity (m³)	Planned Expenditure (Rs. lakhs)	Expenditure (Rs. lakhs)	Total Expenditure (Rs. lakhs)	Remarks
1	Supply and laying of 100 mm thick concrete floor slabs for 120 bedders, 20 m x 20 m size, 20 nos.	Concrete in slabs	11.45	200	20.11	0.00	20.11	Supply and laying of 100 mm thick concrete floor slabs for 120 bedders, 20 m x 20 m size, 20 nos.
	Total		11.45	200	20.11	0.00	20.11	


 Engineer


 Government of India

Minutes of the Meeting of External Technical Committee held on 13.06.2016 at 11:00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra

The following were present:

- | | | |
|---|--|----------|
| 1 | Prof. Veevaitha Kumar
Prof. Civil Engineering, IIT
IT (BHU) Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Hystole Engineer
G.T. Road | Member |
| 3 | Sh. G.K. Tanwar
Executive Engineer (Electricity)
I.T. Dehra | Member |

The Committee decided as under:

- To discuss ~~and~~ the Revised Cost estimate with detailed reasons for increase in cost for various re-carpeting of roads:
 - from main approach road to Guest House and around Guest House
 - From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8
 - Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk, via NIT Chowk at NITK

• Since approval from the competent authority has already been granted in the case after looking into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,33,409/- and for (d) Rs. 26,04,518/-

- To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kurukshetra road gate to Hostel No. 4 (approx. length of 400 meters) at NIT Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected to CPWD).

- To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey hostel barrack comprising of 2 Blocks to accommodate 96 bidders at NIT, Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order

Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 2,98,48,649/-

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,50,39,000/-

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,65,79,100/- project sanctioned by CPWD is recommended for the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,29,38,441/-.

To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CPAD water supply lines with centrifugally cast (Semi) iron pipe class LA in Residences, Hostels and Instructional building at NIT Kurukshetra

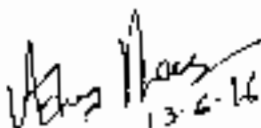
As the work has already been completed, the cost sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,500/-.

8. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

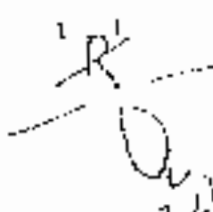
Item No. 8 does not come in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction primary, because CPWD took contract action based on estimates given by NIT Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.


(Veerendra Kumar)


13.6.16
(Ajay Sharma)


(G.K. Taneja)

Director 

24/6/16

The recommendation of the Committee will be placed on the agenda of the next meeting of the Board of Governors. (Sd/-)
25/6/16
Dean (Finance)

Item No. 22.6 To consider and approve the Revised Cost estimate for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra.

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
- d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk, Kurukshetra.

The administrative approval and expenditure sanction for the work of providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra.

(a) From main approach road to Guest House and around Guest House. (b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8, (c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra & (d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk, Kurukshetra

was conveyed to CPWD for an amount of (Rs. 24.88 + 15.44 + 17.91 + 4.73 = Rs. 62.96) vide letter No. CPWD/57/921 dated 15.2.2013. The work was awarded

to contractual agency for execution by CPWD vide letter no. 54(NIT)/KCD/2013/804 & 805 dated 19.03.2013 with a time limit of one month. The actual date of start of work was 14.03.2013 and the stipulated date of completion was 13.04.2013.

Thereafter, the CPWD submitted the final expenditure through Executive Engineer (Civil) CPWD, Karnal vide letter no. 20(142)PS/KCD/2016/463 & 464 dated

04.02.2016 for an amount of ((a+b+c) Rs. 45,89,489 and (d) Rs. 28,04,818 = Rs. 73,94,307/-). The same was put up before the 21st Building & Works Committee

Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2016.

in light of the decision of B.T. Building & Works Committee, the NITK submitted the final completion cost of this work with detailed justification for an amount of Rs. (a) Rs.45,89,489/- and (b) Rs. 28,04,818/- Rs.73,94,307/- vide letter No.20/1425/PS/03/2015/285 dated 25.02.16. The same was put up before External Technical Committee meeting held on 12.02.2016 in the House Room of Government Administrative Building N-1, Kuvakshetra. The External Technical Committee discussed the final completion cost in detail and decided as under:-

Since approval from the competent authority has already been taken in the case after looking into the financial approval the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,89,489/- and for (d) Rs. 28,04,818/-

The Building & Works Committee may consider and approve the final completion cost of providing 40mm thick premix carpeting on various roads as mentioned above at NIT Kuvakshetra with an amount of Rs.73,94,307/-

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

Long Paper

Sl. No. of P.W. 2270/13

Dated: 15.02.2013

Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
44B, Sudarshan Colony
Karnal

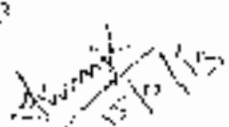
Subject :- Administrative approval & Expenditure sanction for Re-compelling of various roads of NIT, Kurukshetra

Reference :- Memo dated 20.12.2012 to Secretary to the Hon'ble Director dated 15.02.2013

Encry reply to your letter no. 20(142)E-KM2012/203 dated 29.01.2013. The administrative approval and expenditure sanction is hereby conveyed for the execution of re-compelling of various roads with the sanctioned amount as under

S. No.	Name of Work	Amount REQ. (Rs. In Lacs)
1	Re-compelling of road from NIT Gate (Lower K/R Gate) to Arun Chaman Chowk via NIT Gate of NIT, Kurukshetra	Rs. 24.85 (Rs. Twenty Four Lacs and Eighty Eight thousand only)
2	Re-compelling of road from main approach road to Gursi House and from guest house Road to NIT Kurukshetra	Rs. 15.14 (Rs. Fifteen Lacs and Twenty Four thousand only)
3	Re-compelling of road from Apollo's Garage to NIT Gate via Mega Hostel and Hostel No. 2 & 3 of NIT, Kurukshetra	Rs. 10.01 (Rs. Ten Lacs and Ninety One thousand only)
4	Re-compelling of road from Apollo's Garage to Chokri V. Singh Road via NIT Gate to NIT, Kurukshetra	Rs. 1.75 (Rs. One Lacs and Seventy Five thousand only)

The above 4 Nos. works are of urgent nature and are to be completed before his visit to His Excellency the President of India on 09.04.2013


 Officer (Estt.)
 For Director

Copy to

1. SE to Director for the information of the Hon'ble Director
2. Chief Engineer (N7-I), Chandigarh CPWD, Kendrya Sadan, Sector-9, CPWD, Chandigarh
3. SE (Elect.) Chandigarh Central Electrical Circle, Kendrya Sadan, Sector-9 A, CPWD, Chandigarh
4. SE (Civil) Chandigarh Central Circle, Kendrya Sadan, Sector-9-A CPWD Chandigarh
5. Executive Engineer (Elect.), Central Public Works Department, Karnal Central Electrical Division, 22-A Indira Colony, Karnal-132021
6. Registrar
7. P.O. (L & C)
8. P.O. (EM)
9. O.R. (Accs)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect.)
13. J.E. (Civil)

GOVERNMENT OF KARNATAKA
DEPARTMENT OF PUBLIC WORKS
KARNATAKA

20/03/2013
21/3/13

ಶ್ರೀಮತಿ. ಸೀತಾ

ಶ್ರೀಮತಿ. ಸೀತಾ

ದಿನಾಂಕ 18/3

ಶ್ರೀ. Vinod Kumar
177, Dr. N. Nagar,
Kumar

1. Resurfacing of road from main approach road to Guest House and from Guest House Apollo Cantonment to NH 66 via Waga Hostel, Hostel No. 1 at Apollo Cantonment Chowk to Y shape road via open Air Theatre at NH Kurukshetra.

2. ಈ ಕೆಳಕಂಡಂತಿರುವ ಕೆಲಸಗಳಿಗೆ (1) ಅಂದಾಜು ಬಿಡುಗಡೆ ಮಾಡಿದ ಮೊತ್ತವು ರೂ. 15,52,134/- (ರೂ. ಐದನೇ ಲಕ್ಷದ ಐವತ್ತೈದು ಸಾವಿರ ರೂ. 134/-) ಮತ್ತು (2) ಕೆಲಸಗಳಿಗೆ ಬೇಕಾದ ಸಾಮಗ್ರಿಗಳ ಮೊತ್ತವು ರೂ. 3,40,000/- (ರೂ. ಮೂರನೇ ಲಕ್ಷದ ನಾಲ್ಕನೇ ಸಾವಿರ ರೂ. 000/-) ಎಂದು ಒಟ್ಟು ರೂ. 18,92,134/- (ರೂ. ಹದಿನೆರನೇ ಲಕ್ಷದ ಎರಡನೇ ಸಾವಿರ ರೂ. 134/-) ಆಗಿದೆ.

3. ಈ ಕೆಳಕಂಡಂತಿರುವ ಕೆಲಸಗಳಿಗೆ (1) ಅಂದಾಜು ಬಿಡುಗಡೆ ಮಾಡಿದ ಮೊತ್ತವು ರೂ. 15,52,134/- (ರೂ. ಐದನೇ ಲಕ್ಷದ ಐವತ್ತೈದು ಸಾವಿರ ರೂ. 134/-) ಮತ್ತು (2) ಕೆಲಸಗಳಿಗೆ ಬೇಕಾದ ಸಾಮಗ್ರಿಗಳ ಮೊತ್ತವು ರೂ. 3,40,000/- (ರೂ. ಮೂರನೇ ಲಕ್ಷದ ನಾಲ್ಕನೇ ಸಾವಿರ ರೂ. 000/-) ಎಂದು ಒಟ್ಟು ರೂ. 18,92,134/- (ರೂ. ಹದಿನೆರನೇ ಲಕ್ಷದ ಎರಡನೇ ಸಾವಿರ ರೂ. 134/-) ಆಗಿದೆ.

Your percentage rate tender for the above mentioned work has been received at the Office of the Engineer of India at an estimated amount of ₹ 15,52,134/- (Rupees Fifteen Lacs Fifty Two Thousand One Hundred & Fifty Three Only) which works out to ₹ 340,000/- (Rupees Three Lacs Forty Thousand Only) estimated cost of ₹ 32,76,894/- (Rupees Three Lacs Twenty Six Thousand Eight Hundred & Ninety Four only).

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, Koral Station Central Station Division, CPWD, Kurukshetra for taking possession of the land starting the work at an early date. The time allowed for carrying out the work as ordered in the tender is One month and he received from 14.3.2013.

ಶ್ರೀಮತಿ.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಪ್ರತಿರೋಧಿ :-

1. ಕರ್ನಾಟಕ ಸರ್ಕಾರ
2. ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
3. ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
4. ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
5. ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
6. ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
- 7-8 ಕರ್ನಾಟಕ ಸರ್ಕಾರ (ಕರ್ನಾಟಕ ಸರ್ಕಾರ) ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ
9. ಕರ್ನಾಟಕ ಸರ್ಕಾರ (ಕರ್ನಾಟಕ ಸರ್ಕಾರ), ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ

19.03
ಕರ್ನಾಟಕ ಸರ್ಕಾರ

निदेशन नं. १५, निदेशन, विभाग,
राज्य सड़क निदेशन विभाग,
राज्य सड़क निदेशन विभाग, दिल्ली-११००१५

निदेशन नं. १५
२१/३/१३

प्रत्यक्ष निदेशन

निदेशन नं. १५, निदेशन, विभाग

दिनांक १९/३

प्रति,

Mrs. Vinod Kumar,
157, Park Nagar,
Khar.

विषय : Resurfacing of roads from MIT Gate (toward RUK Gate) to Apollo Canton Chowk via MIT Chowk at MIT, Kurukshetra.

विवरण : इस निदेशन के अंतर्गत एक (NIT) का निदेशन विभाग द्वारा जारी किया गया है जिसमें निम्नलिखित बातें हैं।

प्रति,

Your percentage rate tender for the above mentioned work has been accepted on behalf of the President of India at your tendered amount of ₹ 23,28,84/- (₹ Twenty Three Lacs Twenty Thousand eight Hundred & Forty Six Only) which works out to 5.40% (Five Percent Four Zero Percent only) above the estimated cost of ₹ 21,41,002/- (₹ Twenty One Lacs Forty One thousand & Two only)

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 as entered in the tender is One month, shall be reckoned from 14.3.2013.

प्रति,

कांचापालक अभियंता
कुरुक्षेत्रा केन्द्रीय मंडल
सी.ए.ओ.ओ.पी.ओ.कुरुक्षेत्र

प्रतिनिधि -

१. मूल निदेशन।
२. अधीक्षण अभियंता, कांचापालक केन्द्रीय परिसर, सी.ए.ओ.ओ.पी.ओ. कुरुक्षेत्र एवं सुपरवाइजर प्रभारित।
३. निदेशक, एच.आर.डी, कुरुक्षेत्र।
४. आचार्य अभियंता, आचार्य कार्यालय, कुरुक्षेत्र।
५. सहायक अभियंता (स.अ.), सी.ए.ओ.ओ.पी.ओ. केन्द्रीय मंडल, कांचापालक।
६. सहायक अभियंता, कुरुक्षेत्र, केन्द्रीय उप-मंडल, कुरुक्षेत्र।
- ७-८. सहायक अभियंता (सी) / उपनिवेश प्रभारित, केन्द्रीय मंडल, कांचापालक।
९. आचार्य अभियंता (केन्द्रीय) कोर्ट नं. ३२, सी.ए.ओ.ओ.पी.ओ. कुरुक्षेत्र।

कांचापालक अभियंता

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

संख्या- 3001/2000/सा.क.मं.सं.2/1997/1765

दिनांक 17/7/97

सेवा में

The Dean,

N.T. Gurukulshetra

विषय : Re-competing of road from main approach road to Guest House and around Guest House, Apollo canteen to NIT gate via Mega Hostel, Hostel No. 7, B and Apollo canteen Chowk to Y shape road via open Air theatre at NIT, Kurukshetra.

उपरोक्त कार्य का संशोधित प्रायोजन विवरण आगत 45,89,489/- रूपय है।
आगत कार्यालय से संशोधित प्रशासनिक स्वीकृति एवं खान झरूदी प्राप्त करने हेतु संलग्न
१। आदेश आबुध है कि उपरोक्त स्वीकृति कर्तरी से आती होगी तर्कि अशिम गणपतदा
की जा सके।

कलाकृत: प्रचलित

कार्यपालक अभियन्ता
करनाल केन्द्रीय मण्डल,
के लो नि धि, करनाल।

प्रतिनिधि:

सहायक अभियन्ता, धुरकेश्वर केन्द्रीय उप-मण्डल, के लो नि धि, करनाल एवं सुदमा

कार्यपालक अभियन्ता

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Haryana

DIVISION: KCD

BRANCH: B & R

Est. No: 1000/EE/KCD/2016-17

Name of works: Recarpetting of road from main approach road to Guest House and around Guest House, Apollo canteen to NIT gate via Mega Hostel, Hostel No. 7, 8 and Apollo canteen Chowk to Y shape road via open Air theatre at NIT, Kurukshetra.

Major Road	Minor Road	Detailed Head
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This Revised Estimate framed by E. Charanjit Dhillon, Executive Engineer, Karnal Central Division, CPWD, Karnal. The probable cost of this work Rs. 45,89,469/- i.e. 5% contingencies & 1% Labour cost.

REPORT

History: The Revised Estimate amounting to Rs. 45,89,469/- i.e. 5% contingencies & 1% Labour cost has been framed to cover the probable cost of the above mentioned work for accord of revised A/A & E/S by the competent authority. The original A/A & E/S received from client department vide letter letter No. DC/57/921 Dated: 18.02.2018 for Rs. 38,08,712/- This revision is required due to some additional work has been executed as mention in revised preliminary estimate. As the final expenditure of the work exceeds more than 10% of the original A/A & E/S amount. Hence this Revised estimate.

Design & Scope:

The following provision has been made in this estimate:

1. Providing and laying tack coat
2. 4 cent thick bituminous sheet with hot bitumen of approved quality using stone chippings
3. Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wear the macadam (W451)

Specifications: The work carried out as per CPWD Specification 2009

Vol. I to IV with up to date correction slips

Rate: Based on DSR 2012.

Cost: Rs. 45,89,469/- i.e. 5% contingencies & 1% Labour cost

T&P: No T & P is required.

Land: Available

M.C. Estt.: Met out of 5% contingencies.

Method: Through contract after call of tender.

Time: Work Completed.

Assistant Engineer (P)

Executive Engineer
Karnal Central Division
CPWD, Karnal.



Work: Resurfacing of roads from NIT Gate (towards KUX Gate) to Apollo Control Check via NIT Check at NIT Kuvempu.

Item Code	Description of Work	Unit	Original Estimate			Revised Estimate			Difference	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		
16	POB WORK			158.2012			158.2012			
	Priming 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 biomass boiler, dressing and preparing the existing road surface as per specifications.									
39.1	Hot bituminous surface @ 0.50 Kg/sqm	Sqm	1520.00	29.00	44080.00	1433.71	31.11	44599.00	519.00	
	1 cm thick bituminous sheet with hot bitumen of approved quality using stone chippings (60% 12.5mm nominal size and 40% 10mm nominal size) @ 2.00cum per 100 sqm and coarse sand at 2.00cum per 100 cum of road surface and with bitumen @ 0.50 kg/cum of stone chippings and at 1.25 kg/cum of sand over a tack coat with hot straight run bitumen including consolidation with road roller of 3 to 10 tonnes net. (complete (tack coat to be paid separately).									
39.1	With paving Asphalt grade VG-10 heated and then mixed with solvent at the rate of 1% and applied on the surface of the road to give uniform finish with ready mixed road marking paint conforming to IS-154, on bituminous surface in white/yellow shade including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.	Sqm	1520.00	36.25	55100.00	1433.71	37.59	53800.00	1300.00	
43	New work (Two or more coats).									
43.1	New work (Two or more coats).	Sqm	100.00	35.75	3575.00			5.00	1525.00	
	Demolishing cement concrete manually/ by mechanical means including a spread of material within 50 metres lead as per direction of Engineer in charge.									
2	Removal concrete to 1:1:8 or leaner mix (i/c equivalent design mix)	Cum			0.00	22.99	27.30	626.00	626.00	
	Scarfing the existing bituminous road surface to a depth of 50mm and disposal of scarified material within 50m lead upto 1000 metre (by mechanical means)	Sqm			0.00	3332.73	3.32	10932.00	10932.00	
77	Unquarred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4:1 (cement: sand: coarse sand).									
80	Light shade using white cement	Sqm			2.00	42.50	120.00	5450.00	5450.00	
80.1	Light shade using white cement	Sqm			224100.00			224100.00		

Add cost Index @ 3.3%

Total

Add Contingencies @ 5%

Total

Add Labour Cost @ 1%

Total

Add GST @ 1%

Total

Sub

Add Contingencies @ 5%

Total

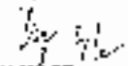
Add Labour Cost @ 1%

Total

Sub Total

Pls refer to detail expenditure on this work for its 21, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.


 ASSISTANT ENGINEER (P)


 EXECUTIVE ENGINEER
 KARNAL CENTRAL DIVISION
 KARNAL

- 21.5 To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2016.

- 21.6 To consider and approve the Revised Cost estimate for various re-carpeting of roads:

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NT Gate via Mega Hostel, Hostel No. 7&8.
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
- d) From NT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

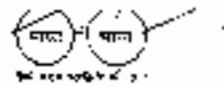
The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2016.

- 21.7 To consider and approve the Revised Cost estimate for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

- 21.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at -NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016.



**केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय गण्डल
एन.डी.आर.आई. कैम्पस करनाल**

सं.आ- 20(142)/बो.शा./क.के.सं/2016/ 2269

दिनांक 31/6/16

सेवा में,

**Dean (Estate),
NIT, Kurukshetra**

विषय : Justification for Revised cost Estimate for the following works.

1. Recarpetting of roads from NIT, Gate (toward KUK gate) to Apollo Canteen chowk via NIT, Chowk at NIT, kurukshetra.
2. Recarpetting of road from main approach road to Guest House and around guest House Roads at NIT, kurukshetra.
3. Recarpetting of road from Apollo canteen to NIT gate via Mega hostel and Hostel No. 07 & 08 at NIT, kurukshetra.
4. Recarpetting of road from Apollo canteen chowk to Y shape road via open Air Theatre at NIT, kurukshetra.

संदर्भ : BWC meeting with NIT authorities on dated 27.05.2016.

During the BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification for the revised cost Estimates of the above said works for which detailed revised Estimate has already been submitted by the CPWD.

The Justification work wise is as below. :-

Sr. No. 01 (i) Recarpetting of roads from NIT, Gate (toward KUK gate) to Apollo Canteen chowk via NIT, Chowk at NIT, kurukshetra.

The original Estimate for this work was submitted to NIT for Rs. 24.88 lacs and 111.8 E/S amounting to Rs. 24.88 lacs was received vide letter no. CC/CPWD/57/525 dated 14.02.2016.

The work got physically completed with completion certificate no. 28/01/2016. The revised detailed estimate amounting to Rs. 24,00,000/- was submitted to NIT authorities vide this office letter no. 20(142)/KCD/464 dated 04.02.2016.

The Justification for increase in cost with detailed reasoning is as below:-

NIT authorities vide letter no. CC/CPWD/85 dated 14.03.2013 requested to increase the width of the road from Apollo canteen chowk to Open Air Theatre due to scheduled visit of His Excellency. The President of



width of the road was less and desired to be widened along with carpeting and providing of Kerbs stone. Due to this Extra work the carpet area increased from 5620sqm to 6435.71 sqm and also chequered precast tiles for an area 42 sqm was executed along the side of the road with actual completion cost of Rs. 28,04,818/- which works out to be 17.73% above the A/A & E/S amount. The work otherwise could have been completed with in the sanctioned amount. Hence this revised detailed estimate which has been submitted already may please be sanctioned.

Sr. No. 02 (i) Recarpetting of road from main approach road to Guest House and around guest House Roads at NIT, kurukshetra.

(ii) Recarpetting of road from Apollo canteen to NIT gate via Mega hostel and Hostel No. 07 & 08 at NIT, kurukshetra.

(ii) Recarpetting of road from Apollo canteen chowk to Y shape road via open Air Theatre at NIT, kurukshetra.

The original estimates amounting to Rs. 15.44Lacs, 17.91Lacs & 4.73 lacs was submitted to NIT authorities for which A/A & E/S was received for Rs. 15.44 Lacs, 17.91 Lacs & 4.73 Lacs vide NIT letter no. CC/CPWD/57/921 dated 15.02.2013.

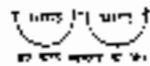
The works got physically completed with completion cost of Rs. 45,89,489/- with a net increase of Rs. 9.07 Lacs for which detailed revised cost estimate was submitted by the office for Rs. 45,89,489/- vide letter no 20(142)/KCD/2016/463 dated 04.02.2016

The Justification with detailed reason for the increase in cost is as below.

The NIT authorities vide letter no CC/CPWD/79/1553 dated 08.03.2013 requested to widening of the road in front of Guest House alongwith provision of Kerbs from main road to health centre and Apollo canteen Chowk to Open Air Theatre vide letter no CC/CPWD/24 dated 14.09.2013. The work was on emergency on the visit of President of India to NIT on 09.04.2013 due to convocation in the Open Air Theatre at NIT.

Thus due to widening of existing road additional items of preparation of subgrade for 326.58 sqm was done along the both sides of the existing road to widen the width from 12 Feet to 17.25 feet.

Hence base course of GSB, WMM, and bituminous macadam was got executed and actual expenditure amounting to Rs. 9.07 Lacs. was incurred for



the widening of existing above roads for which exact quantities executed are already shown in the detailed revised estimate already submitted.

Therefore an increase from original AA & ES for above three works compiling Rs. 15.44+17.91+4.73 = 38.08 Lacs has been done for Rs 9.07 lacs which works out to 23.82% increase from the original cost. Which otherwise would have been completed within the sanctioned AA & ES.

Hence it is requested to approve the revised AA & ES for the above said works.

letters of reference from the client department.

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

27/06/16

नोट :-

1. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को उनके पत्र सं० 24(NIT)/A.E.K/2016/136 दिनांक 01.06.2016 के संदर्भ में सूचनार्थ प्रेषित।

कार्यपालक अभियंता
27/06/16

Minutes of the Meeting of External Technical Committee held on 13.06.2016 at 11.00 am in the Board Room of Governor Jadhav Administrative Building at NIT, Kurukshetra.

The following were present:

- | | | |
|---|--|----------|
| 1 | Prof. Vijayendra Kumar
Prof. Civil Engineering, Deptt
IT (BHU), Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Institute Engineer
III Rankee | Member |
| 2 | Sh. G.K. Tanuja
Executive Engineer (Local Road)
IT, Delhi | Member |

The Committee decided as under:

1. To discuss ~~the~~ the Revised Cost estimate with detailed reasons for increase in cost for various re-carpeting of roads:
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
 - c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - d) From NIT Gate (towards KUK Gate) to Apollo Canteen, Chowk via NIT Chowk at NITK.

Since approval from the competent authority has already been taken in the case (a+c) looking into the financial sanction the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,89,482/- and for (d) Rs. 28,04,616/-.

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kirmion road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 45,76,720/- (based on revised scope of work projected by CPWD).

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order.

Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,50,48,660/-

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,13,39,000/-

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storied framed structure) (Ground +5) at NIT, Kurukshetra

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,00,79,100/- projected by CPWD is recommended for the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi-Storied Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover, the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 53,29,38,441/-

[Signature]

To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CPAC water supply lines with centrifugally cast (Spun) cast pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra

As per the letter from CPWD dated 10.08.2016, CPWD estimates have been quoted to Rs. 2,72,34,300/- The Technical Expert Committee observed that the estimated requirement for materials is correct. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounted to Rs. 2,72,34,300/-

8. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute

Item No. 5 does not remain in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the variations have resulted in cost escalation beyond 10% of the sanctioned amount because CPWD took control action based on estimates given by NIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their work procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

(Venendra Kumar)

(Ajay Sharma)

(G R Taneja)

Director

The recommendation of the Committee will be placed on the next Board meeting agenda.

Item No. 22.7 To consider and approve the Revised Cost estimate for widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The administrative approval and expenditure sanction for the work for widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra was conveyed to CPWD for an amount of Rs. 39,00,000/- vide letter No. CC/23/100 dated 7/8.01.2013. The work was awarded to the contractual agency by CPWD for execution vide letter No. 54(NIT)KCD/2013/398 dated 16.02.2013 with a time limit of three months. The actual date of start of work was 14.03.2013 and the stipulated date of completion was 13.04.2013. Thereafter, the CPWD submitted the final expenditure through Executive Engineer (Civil) CPWD, Karnal vide letter no. 20(142)/PS/KCD/2016/465 dated 04.02.2016 for an amount of Rs. 46,76,720/-. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

In the light of the decision of 21st Building & Works Committee, the CPWD submitted the final completion cost of this work with justification for an amount of Rs. 46,76,720/- vide letter No. 20(142)/PS/KCD/2016/2272 dated 3.6.2016. The same was put up before External Technical Committee meeting held on 13.6.2016 in the Board Room of Golden Jubilee Administrative Building NIT, Kurukshetra. The External Technical Committee discussed the final completion cost in detail and decided as under:-

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected by CPWD).

The Building & Works Committee may consider and approve the final completion cost for widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT Kurukshetra with an estimated cost of Rs. 48,78,720/-

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CCI 23/100

Dated: 07/01/2013
08

The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
448, Subhash Colony
Karnal

Subject:- Administrative approval & Expenditure sanction for the Widening of Institute Road from Kirmich Road Gate to Hostel No.4 (approx. length of 400 mtr.) at NITK.

Reference: MoU dated 20.12.2012 & approval of the Hon'ble Director on dated. 04-01-2013.

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under:

Sr. No.	Name of Work	Amount REC (Rs. In Lacs)
1	Widening of Institute Road from Kirmich Road Gate to Hostel No.4 (approx. length of 400 mtr.) at NITK.	Rs. 39.00 (Rs. Thirty Nine Lacs Only)

2. Dean (Estate)
For Director

Copy to:

1. SS to Director for the kind information of the Hon'ble Director.
2. Chief Engineer (NZ-I), Chandigarh CPWD, Kendriya Sadan, Sector-9, CPWD, Chandigarh.
3. SE (Elect.) Chandigarh Central Electrical Circle, Kendriya Sadan, Sector 9-A, CPWD, Chandigarh.
4. SE (Civil) Chandigarh Central Circle, Kendriya Sadan, Sector-9-A, CPWD, Chandigarh.
5. Executive Engineer (Elect.), Central Public Works Department, Karnal Central Electrical Division, 22-A Indira Colony, Karnal-132021
6. Registrar
7. Prof. I/C (E & C)
8. Prof. I/C (EM)
9. DR (Acs)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect.)
13. J.E. (Civil)

Recd
7/1/13

$$\begin{aligned} \mathcal{N}(t) &= \mathcal{N}_0 + \int_0^t \mathcal{N}_1(s) ds \\ &= \mathcal{N}_0 + \int_0^t \mathcal{N}_2(s) ds \\ &= \mathcal{N}_0 + \int_0^t \mathcal{N}_3(s) ds \end{aligned}$$

whereas it is possible that some persons may wish to make the
 changes suggested by the Committee.

for a number of years, and the results have been very satisfactory.

[illegible]

Yours very truly,
 J. Edgar Hoover

[illegible]

1175-1181

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

புதிதாயிற்று

1. सूचना -
2. अवधि -
3. विषय -
4. अवधि -
5. अवधि -
6. अवधि -
- 7-8 अवधि -
- 9 अवधि -

1954年12月10日

કેન્દ્રીય લેવેલ નિર્માણ વિભાગ
કરનાલ કેન્દ્રીય મण्डल
448, સુભાષ કાલોની, કરનાલ

કરનાલ- 201140) જે.આ.સી.કે.એ. 7/1/15 1765

કેનાલ 10/2/15

સ્વ. સે.

The Dean,
NIT, Kurukshetra

વિષય : Widening of Institute road from Kirmich road gate to Hostel No. 4
(Approx. length of 400 metre) at NIT, Kurukshetra.

આરોગ્ય કાર્ડ તથા સંબંધિત પાસપોર્ટ સાઈઝની તસવીર-451967207 જાહેર છે.
આપના કાર્યાલય તો અંશાત્મક પ્રશાસનિક સ્વીકૃતિ અને તરત મંજૂરી આપવા માર્ગે હેતુ સંબંધિત
છે. આપને અપુરોષ છે કે આરોગ્ય સ્વીકૃતિ જાહેર તો જાહેર મેટે તાજા અધિકાર્યકર્તાઓ
તો જાહેર છે.

સંલગ્ન : પ્રમુખશ્રી

કાર્યપાલક અધિકારી
કરનાલ કેન્દ્રીય મण्डल,
એ.સી.સી.વિ., કરનાલ.

પ્રતિલિપિ:

1. સમાચક અધિકારી, તુરુક્ષેત્ર કેન્દ્રીય ઉચ્ચ-મण्डल, જે.એ.સી.વિ., તુરુક્ષેત્ર અને સુબનાઈ.

કાર્યપાલક અધિકારી

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Haryana

DIVISION: KCD

BRANCH: D & R

Est. No.:/EF/KCD/2016-17

Name of works:- Widening of Institute road from kirmich road gate to Hostel No. 4 (Approx. length of 400 metre) at NIT, Kurukshetra.

Major Head	Minor Head	Detailed Head
------------	------------	---------------

This Revised Estimate framed by Mr. Charanjit Pasuja, Executive Engineer, Karnal Central Division, CPWD, Karnal of the probable cost of Civil work Rs. 46,76,722/- i/c 5% contingencies & 1% Labour cess

REPORT

History: This Revised Estimate amounting to Rs. 46,76,722/- i/c 5% contingencies & 1% Labour cess has been framed to cover the probable cost of the above mentioned work for second of revision A/A & B/S by the competent authority. The original A/A & B/S received from client department vide letter No. CC/23/10 Dated: 07/08/2013 for Rs. 37,00/- later this revision is required due to some addition work has been executed as mention in revised preliminary estimate. As the final expenditure of the work exceeds more than 10 % of the original A/A & B/S amount. Hence the Revised estimate.

Object & Scope:

The Following provision has been made in this estimate

1. Providing and laying 30 position cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)
2. Providing and fixing at or near ground level precast cement concrete to kerbs, edgings etc 1:2:4
2. Preparation and consolidation of sub grade
3. 4 cm thick bituminous sheet with hot bitumen of approved quality using stone chippings
4. Providing and applying 2.5mm thick road marking strips
5. Construction of prime or sub-base by providing coarse graded Material conforming to specifications
6. Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM)
7. Providing and laying bituminous macadam
8. Providing and fixing at or near ground level factory made kerb channel

Specification: The work carried out as per CPWD Specification 2009 Vol. I to II with up to date correction slips

Rate: Based on BSR 2012.

Cost: Rs. 46,76,722/- i/c 5% contingencies & 1% Labour cess

T & P: No T & P is required.

Land: Available

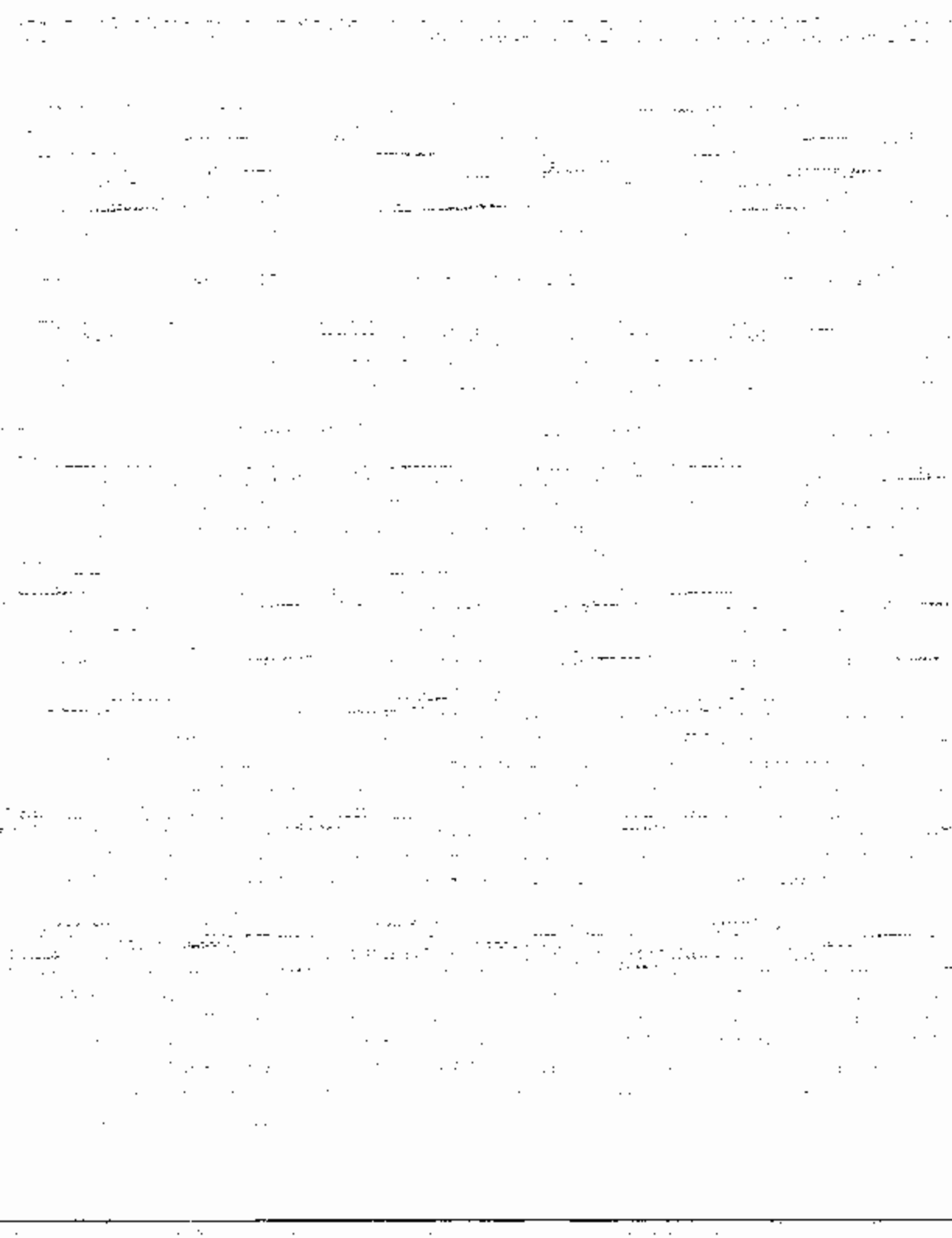
W.C. Estt.: Met out of 5% contingencies.

Method: Through contract after call of tender.

Time: Work Completed.

Assistant Engineer (P)

Executive Engineer
Karnal Central Division
CPWD, Karnal.



[illegible]

26.3	Nominal concrete 1:1.6 or richer in a 10% equivalent design mix including 10% excess of cement and 5% excess of sand and coarse scanned material within all JTs and load upto 3000 metre (by mechanical means)	Sqm	-	-	0.00	1348.47	2.35	3149.00	1716.00
27	Providing and fixing 100mm dia. R20 steel pipe 1.2m x 1.0 m with joints jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of concrete complete.								
27.4	300 mm dia. R.C.C. pipe	mtr	-	-	0.00	154.35	1.10	169.78	12271.00
27	Constructing brick masonry road gully chamber 500x500 mm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x500 mm precast R.C.C. horizontal grating with fixing complete as per standard design.								
27.1	With common burnt clay F.P.S. (non modular) (Leak class designation 1.5)	each	-	-	0.00	7.00	32.11	117.12	11139.00
	Disposal of surplus excavated earth by mechanical transport beyond a lead of 50 mtr but upto a lead of 3.500km as per direction of Engineer in charge.	mtr	-	-	0.00	465.62	55.00	25653.30	18050.00
28	Providing and fixing at or near ground level factory made earth channel of 14-30 grade of size 400x200x100mm, including setting in position in footpath to the required level and line over a bed of 20mm average thick cement mortar 1:5 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer in charge.	Sqm	-	-	4.00	367.27	125.55	215055.14	215055.00
1	Brick work with common burnt clay F.P.S. (non modular) joints of class designation 2.5 in foundation and girch m								
2	Cement mortar 1:5 (1 cement : 5 coarse sand)	cum	-	-	0.00	3.44	46.11	10563.14	20267.00
		GRAND				1301489.00		4521349.00	6025916.00

Add cost Index @ 4.70%

164570.00

Add Contingencies 5%

126370.00

Total

166039.00

Total

1251760.00

Add Contingencies @ 5%

163303.00

Add Labour Cost @ 1%

17538.00

Total

1640392.00

Total

1001307.00

Add Labour Cost @ 1%

16494.00

Surplus

10,01,307/-

Total

1656886.00

Say

1656886.00

Restricted to actual expenditure on this work for Rs.

46,76,720/-


 ASSISTANT ENGINEER (P)


 EXECUTIVE ENGINEER
 KARNAL CENTRAL DIVISION
 I.P.W.D., KARNAL.

- 21.5 To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2015.

- 21.6 To consider and approve the Revised Cost estimate for various re-carpeting of roads:

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra
- d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

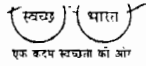
The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2015.

- 21.7 To consider and approve the Revised Cost estimate for Widening of Institute road from Kilmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2015.

- 21.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at -NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2015.



केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय मण्डल
एन.डी.आर.आई. कैम्पस करनाल

पु.116.425
Date. 6/6/16

संख्या- 20(142)/यो.शा./क.के.मं/2016/2272

दिनांक 3/6/2016

सेवा में,

✓ Dean (Estate),
NIT, Kurukshetra

विषय : Justification for Revised cost Estimate for the work of Widening of Institute road from kirmich road gate to Hostel No. 4 (Approx. length of 400 metre) at NIT, Kurukshetra.

संदर्भ : BWC meeting with NIT authorities on dated 27.05.2016.

During the BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification for the revised cost Estimates of the above said work for which detailed revised Estimate has already been submitted by the CPWD.

The Justification work wise is as below. :-

The original Estimate for this work was submitted to NIT for Rs. 39.00 lacs and A/A & E/S amounting to rs. 39.00 lacs was received vide letter no. CC/23/100 dated 07/08.01.2013.

The work got physically completed with completion cost of Rs. 46,76,720/-. The revised detailed estimate amounting to Rs. 48,01,300/- was submitted to NIT authorities vide this office letter no. 20(142)/KCD/465 dated 04.02.2016.

The Justification for increase in cost with detailed reasoning is as below:-

As per actual, widening of the road at site to maintain the symmetry with the existing road, increase in the widening area occurred from 1141.00 SQM to 1408.20 i.e increased by 23.41 %. Due to this increase in the area the quantities of items like preparation and consolidation of sub-grade, GSB, Wet Mix Macadam, Bituminous macadam, tack coat and 40mm thick bitumastic sheet occurred accordingly. Also after widening, kerb channels were provided along both sides of the road with an area of about 370 Sqm. Also during widening old storm drain was dismantled and new arrangement of underground NP-2 pipes was provided with inspecting chambers which was originally not there in the scope of work. Due to all these factors the completion cost increased to 46,76,720.00 from 39.00 Lacs which works out to be 19.90% above the A/A & E/S amount. The work otherwise could have been completed within the sanctioned amount. Hence this revised detailed estimate, which has already been submitted, may please be sanctioned.

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

प्रतिलिपि :-

1. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि, सैक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को उनके पत्र सं 024(NIT)/A.E.K/2016/137 दिनांक 02.06.2016 के संदर्भ में सूचनार्थ प्रेषित।

कार्यपालक अभियंता

Minutes of the Meeting of External Technical Committee held on 13.08.2016 at 11.00 am in the Board Room of Golden Jubilee Administration Building at NIT, Kurukshetra.

The following were present:

- | | | |
|---|---|----------|
| 1 | Prof. Virendra Kumar
Prof. Civil Engineering, IIT
IIT (Roorkee), Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Institute Engineer
IIT, Roorkee | Member |
| 3 | Sh. G.K. Tareja
Executive Engineer (Electrical)
MT, Delhi | Member |

The Committee decided as under:

1. To discuss ~~and~~ the Revised Cost estimate with detailed reasons for increase in cost for various re-carpeting of roads:
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
 - c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - d) from NIT Gate (towards KUK Gate) to Apollo Canteen, Chowk via NIT Chowk at NITK

Since approval from the competent authority has already been taken in the case after looking into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,89,489/- and for (d) Rs. 22,54,816/-.

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kirmick road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected by CPWD).

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bearing barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order.

The Technical Expert Committee observed that this work has already been sanctioned by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 23,02,040/-.

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at NIT, Kurukshetra

As the work has already been completed, ex post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 4,44,36,000/-.

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose hostel including 100 suits for foreign students, research scholars and married PG Students (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,05,75,100/- projected by CPWD is recommended for the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,29,38,411/-.

To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CPWD water supply lines with continuously cast (spiral) iron pipe class 1.4 in Residences, Hostels and Institutional building at MIT, Kurukshetra

As the work has almost been completed, the cost for variation may be granted at the cost of the subject. The Technical Expert Committee observed that the proposal held at the for increase in cost is in order. However the administrative approval to carry out this work had already been received by the competent authority of the MIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2 / 2 31,300/-

- ii) To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute

Item No. 8 does not come under the purview of the Technical Expert Committee and MIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction primarily because CPWD took contract action based on estimates given by MIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

(Veerendra Kumar)

(Ajay Sharma)

(G. K. Taneja)

Director

The recommendation of the Committee may be placed on the next B.M. meeting. C.S.V.
24/6/16

Item No. 22.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at - NIT, Kurukshetra

The administrative approval and extensation sanction for the work of construction of two nos. Institute Main Gate at - NIT, Kurukshetra was conveyed to CPWD for amounting to Rs. 82.99 lacs vide letter no CC/14/31 dated 07/05/2013. Accordingly tenders were invited by CPWD and work was awarded to the contractual agency for execution by CPWD vide letter no 54(NIT)KCD/2013/2559 dated 24/09/2013 with a time limit of three months. The actual date of start of work was 27.09.2013 and the stipulated date of completion was 25.12.2013 and actual date of completion of work was 30.06.2014. Thereafter the CPWD submitted the revised cost estimate through Superintending Engineer (Civil), CPWD, Chandigarh for an amount of Rs. 172.74 CCDr vide letter no CCQ/75(4515)NIT-3/2559 dated 21/08/2015. The revision was required due to change in structural design and drawings after award of the work to contractual agency by CPWD for execution of the work and some additional work as suggested by NIT authority during execution of the work. Accordingly Executive Engineer (Civil), CPWD, Karnal submitted the justification vide letter no 20(NIT)KCD/2016/317 dated 22/01/2016. Further, the Executive Engineer (Civil), CPWD, Karnal vide letter No. 20(NIT)PS/KCD/2016/482 dated 04/02/2016 submitted the following justification for increase in revised cost estimate (copy enclosed)

1. Extra work for approach roads on both gates
2. The quantity increased in stainless steel alphabets and emblem of institute on both gates
3. Extra work of Aluminum composite panel on all sides of steel truss.
4. Extra work for construction boundary wall with granite on main gate entrance
5. Extra work for construction Islands for landscaping at main gate inside and outside portion.
6. Extra work of pathway design in front and rear of main gate and University side gate.
7. Extra work for white marble stone under the name and emblem of Institute

RCC ceiling shuttering reinforcement and extra item of M.S. tubulars. (copy enclosed)

The same was put up before the 21st Building & Works Committee Meeting held on 27.05.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:

The B&WC deliberated on the matter, and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016.

Accordingly the CPWD submitted the realistic cost estimate with detailed justification for increase in cost for an amount of Rs. 1,58,39,000/- vide letter No. 20(142) PS/KCD/2016/2331 dated: 07.06.2016. The same was put up before External Technical Committee meeting held on 13.06.2016 in the Board Room of Golden Jubilee Administrative Building NIT, Kurukshetra. The External Technical Committee discussed the revised estimate in detail and decided as under:

As the work has already been completed ex post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,58,39,000/-.

The Building & Works Committee may consider and approve the final completion cost for widening of Institute road from Kimich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra with an estimate cost of Rs. 1,58,39,000/-

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CC/14/91

Dated: 07/01/2013
08

The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
448, Subhash Colony
Karnal

Subject:- Administrative approval & Expenditure sanction for the Provision for two nos. Institute Main Gates at NITK.

Reference: MoU dated 20.12.2012 & approval of the Hon'ble Director on dated. 04-01-2013.

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under:-

Sr. No.	Name of Work	Amount REC (Rs. In Lacs)
1	Provision for two nos. Institute Main Gates at NITK.	Rs. 82.99 (Rs. Eighty Two Point Ninety Nine Lacs Only)

[Signature]
7/1/13
Dean (Estate)
For Director
[Signature] 7/1/13
[Signature] 7/1/13
[Signature] 8/1/13

Copy to:

1. SS to Director for the kind information of the Hon'ble Director.
2. Chief Engineer (NZ-I), Chandigarh CPWD, Kendriya Sadan, Sector-9, CPWD, Chandigarh.
3. SE (Elect.) Chandigarh Central Electrical Circle, Kendriya Sadan, Sector 9-A, CPWD, Chandigarh.
4. SE (Civil) Chandigarh Central Circle, Kendriya Sadan, Sector-9-A, CPWD, Chandigarh.
5. Executive Engineer (Elect.), Central Public Works Department, Karnal Central Electrical Division, 22-A Indira Colony, Karnal-132021
6. Registrar
7. Prof. I/C (E & C) *[Signature]*
8. Prof. I/C (EM) *[Signature]*
9. DR (Acs) *[Signature]*
10. Executive Engineer, Construction Cell *[Signature]* 7/1/13
11. A.E. (Civil) *[Signature]*
12. J.E. (Elect.) *[Signature]*
13. J.E. (Civil) *[Signature]*

Recd. *[Signature]*
7/1/13

प्रदक पत्र

पत्र सं. १८८/२०१३/२०१३/२०१३

दिनांक २०/९/२०१३

प्रति,

Mrs. General Construction Co.,
433, Madhija Colony,
Jawahar Road,
Pune - 411003

०१/१०/१३

विषय: Provision for University gate and karmich road main gates at N.E. Kurukshetra.

संदर्भ: इस कार्यालय को पत्र संख्या ७४(NIT)/क.के.म./२४९८ दिनांक १७/९/२०१३ एव
उस आदेश पत्र संख्या 'शून्य' दिनांक २१/९/२०१३.

अधीनस्थ,

Your percentage rate tender for the above mentioned work has been accepted on behalf of the President of India at your tendered amount of ₹ 37,13,089/- (₹ Thirty Seven Lacs Thirteen Thousand & Eighty Nine Only) which works out to 12.50% (Twelve Lacs Five Zero Percent only) below the estimated cost of ₹ 42,43,530/- (₹ Forty Two Lacs Forty Three Thousand Five Hundred & Thirty only).

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, (PWD), Kurukshetra for taking possession of site and starting the work at once. Please note that the time allowed for carrying out the work as entered in the tender is Three months, shall be reckoned from 27/9/2013.

भवदीय,

कार्यपालक अभियंता
कारणाल-केन्द्रीय मंडल,
के.लो.नि.वि, कारणाल

प्रतिलिपि :-

1. मूल कार्यालय।
2. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमंडल, के.लो.नि.वि, चण्डीगढ़ को सूचना के प्रेषित।
3. निदेशक, एन.आई.टी, कुरुक्षेत्र।
4. आयुक्त अभियंता, आयुक्त कार्यालय, कुरुक्षेत्र।
5. वरिष्ठ श्रम अधिकारी (उ.अ.), के.लो.नि.वि, केन्द्रीय मंडल, चण्डीगढ़।
6. सहायक अभियंता, कुरुक्षेत्र, केन्द्रीय उप-मंडल, कुरुक्षेत्र।
- 7-9 सहायक अभियंता(टी)/पर्यायलय अधीक्षक/रोकडिया, कारणाल केन्द्रीय मंडल, कारणाल।
10. श्रम प्रवर्तक अधिकारी (केन्द्रीय), कोठी अ. 32, बैंक मार्ग, कारणाल।

कार्यपालक अभियंता

केन्द्रीय लोक सेवा आयोग
चन्द्रशेखर राष्ट्रीय विश्वविद्यालय
चन्द्रशेखर राष्ट्रीय रोड-9-ए, कुर्कुशेत्र

संख्या: ए.डी.ए.सी./2019/15/15/15

दिनांक: 21/12/19

प्रति,

The Registrar,
National Institute of Technology,
Kurukshetra (Haryana)

विषय:- Provision for University gate and kinnich road main gate at NIT,
Kurukshetra.

संदर्भ:-

सम्बंधित कार्य का संबंधित प्रारम्भिक अनुमान रु. 1,72,74,000/रु. 15 लाख तक
को प्रतिशत में आने वाले कार्यों को भेजा जाये A/A & E/S आदि करने हेतु निर्देशित की
जायी है। कार्य की आवश्यकता का उल्लेख अनुमान से कर दिया गया है। अतः
आपको अनुरोध है कि सम्बंधित कार्य को हिट भावी गेट A/A & E/S सम्बंधित जायी
करने का प्रयत्न करें।

संलग्न अनुमान (दो प्रतिशत)

आपका

अधीक्षक, लोकोपस्थापना

प्रतिवेदन:-

1. मुख्य अभियंता (उ.अ-1), के.सी. नि. वि. चन्द्रशेखर;
2. अधीक्षक अभियंता (विद्युत), चन्द्रशेखर केन्द्रीय विद्युत परिगणक, के.सी. नि. वि. चन्द्रशेखर;
3. कार्यपालक अभियंता, कर्नाल राष्ट्रीय गेट, के.सी. नि. वि. चन्द्रशेखर को अनुमान (अ. एक) में
संलग्न। संलग्न अनुमान
4. कार्यपालक अभियंता (विद्युत), कर्नाल राष्ट्रीय गेट, चन्द्रशेखर के.सी. नि. वि. चन्द्रशेखर को अनुमान
की एक प्रति संलग्न। संलग्न अनुमान। *Additional provisions added as per
telephonic conversation with you on 21.12.2019.*

अधीक्षक अभियंता

25/12/19

Devy (F. State)

Prd./F.L. (ERC) / Prd./F.L. (F.L.)

AE/LV
JEC

25/12/19

20/12/19

235

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana
BRANCH: B & R

DIVISION: KCD

Name of works: Provision for University gate and kirmich road main gate at NIT,
Kurukshetra.

Major Head	Minor Head	Detailed Head
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This Revised preliminary cum detailed estimate framed by Er. Varun Kumar, Executive Engineer, Karnal Central Division, CPWD, Karnal and further processed by Er. R.K.Gandhi, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh of the probable cost of Rs. 1,72,74,000/- i/c 3% contingencies.

REPORT

History: This Revised preliminary cum detailed estimate amounting to Rs.1,72,74,000/- i/c 3% contingencies has been framed to cover up the probable cost of the above mentioned work for accord of revised A/A & E/S by the competent authority. The original A/A & E/S amounting to Rs. 82.99 lacs for the said work was received from the client department vide their letter No. CC/14 Dated 07.01.2013. The revision is required due to change in drawings and execution of major additional work as desired by client department. Hence the necessity of the revised estimate.

Design & Scope: Following provisions have been made in this estimate:

1. RCC work 1:1.5:3 in columns, beams, roofs etc.
2. Reinforcement for RCC work.
3. Brick work with common burnt clay FPS bricks in foundations & Superstructure.
4. Providing & fixing stainless steel doors, windows, gates, steel letters etc.
5. Exterior wall cladding with high pressure compact laminates.
6. Providing & fixing vitrified floor tiles.
7. Providing Electrical Installations.

Specification: The work shall be carried out as per CPWD Specification 2009 Vol. I to II with upto date correction slips.

Rate: Based on DSR 2012.

Cost: Rs. 1,72,74,000/-i/c 3% contingencies

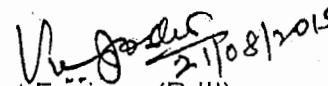
W.C. Estt.: Shall be met out of 3% contingencies.

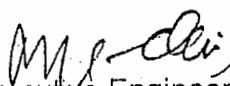
T&P: No T & P is required.

Land: Available

Method: By contract after call of tenders.

Time allowed: 3 Months for execution of work.


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


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

[illegible]

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
8.2.2	Granite of any colour and shade									
8.2.2.2	Area of slab over 0.50 sqm.	76	sqm	2,575.10	195708.00	3.43	Sqm	3907.40	13402.00	
8.3	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.									As per Architectural Drawings.
8.3.2	Granite work.	76	metre	97.60	7418.00	498.97	Mtr	230.55	115038.00	
8.7	Providing and fixing cramps of required size & shape in RCC/ CC backing with cement mortar 1:2 (1 cement :2 coarse sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately)									
8.7.2	Stainless steel cramps.	390	kg	529.50	206505.00	-	-	-	-	
8.8	Providing and fixing expansion hold fasteners on C.C. /R.C.C. surface backing including drilling necessary holes and the cost of bolt etc complete.									
8.8.1	Wedge expansion type									
8.8.1.2	Fastener with threaded dia 10 mm.	1488	each	18.95	28198.00	-	-	-	-	
8.9	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.									
8.9.1	8mm thick.									
8.9.1.2	Granite of any colour and shade.	134	sqm	1,116.30	149584.00	-	-	-	-	
	WOOD AND P. V. C. WORK									
9.83	Providing and fixing ISI : 3564-having brand logo with ISI embossed on the body, door weight upto 35 kg. and door width upto 700mm. Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	2	each	610.60	1221.00	-	-	-	-	
9.96	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	250x16 mm	2	each	134.10	268.00	-	-	-	-	
9.100	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 :									
9.100.1	125 mm	4	each	48.80	195.00	-	-	-	-	
9.100.3	75 mm	24	each	28.35	680.00	-	-	-	-	
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.									
9.101.2	Twin rubber stopper	2	each	53.90	108.00	-	-	-	-	
	STEEL WORK									
13.2	Providing and fixing stainless steel (Grade 304) tubular frame/shutter frames for doors, windows, ventilators made of Hollow tubes, channels, plates, hinges including locking arrangements like sliding door bolt, tower bolt etc. complete welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel, dash fastener, nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size as per direction 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.)					169.74	Kg	558.00	94715.00	As per Architectural Drawings

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
14	Providing and fixing stainless steel (Grade 304) work welded in built up section/frame work i/c cutting, hoisting, fixing in position 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 as per direction 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.) In grating frames, guard bars, ladder, railings, brackets, gates and similar works.	-	-	-	-	4054.02	Kg	558.00	2262143.00	As per Architectural Drawings
15	Providing and fixing stainless steel letter of (Grade 304) of required size and colour i/c fixing of letter on surface with bolts and nuts with adhesive to fix the letter on surface etc. as per direction of Engineer-In-Charge.	-	-	-	-	-	-	-	-	As per Architectural Drawings and as per requirement of client department
15.1	i) letter of size 24" size	-	-	-	-	2212.00	inch	81.40	180057.00	-----do-----
15.2	ii) Logo with etching	-	-	-	-	5760.00	Inch	30.35	174816.00	-----do-----
10.1	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.	97	kg	42.15	4089.00	-	-	-	-	
NS	Providing and fixing Stainless steel (of grade SS: 304) Gate made of hollow tubes, channels, caps, flats etc. for staircases, passages and other areas etc. including shaping, welding, grinding, buffing, polishing and fixing the same to RCC slab/beams etc. with Stainless steel 100mm long 10mm dia fasteners including providing bend & tees at junctions and necessary shop drawings etc. complete as per directions of Engineer-in-Charge. (For payment purpose only stainless steel components shall only be measured and paid on weight basis)	1140	Kg	551.00	628140.00	-	-	-	-	
NS	Providing and fixing stainless steel alphabet in English & Hindi of required size.	3	L.S	50000	150000.00	-	-	-	-	
	FLOORING									
11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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.	2	sqm	556.50	1113.00	-	-	-	-	
11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	8	sqm	598.65	4789.00	-	-	-	-	
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's 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) including grouting the joints with white cement and matching pigments etc., complete.									As per Architectural Drawings
11.41.2	Size of Tile 600x600 mm	-	-	-	-	25.17	Sqm	1405.95	35368.00	

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.									As per Architectural Drawings
11.46.2	Size of Tile 600x600 mm	-	-	-	-	44.00	Sqm	1415.40	62278.00	
	ROOFING									
12.15	Painting top of roofs with bitumen of approved quality at 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cu dm per 10sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :									
12.15.1	With residual type petroleum bitumen of penetration 80/100	8	sqm	63	504.00	-	-	-	-	
12.19	Providing and laying brick tiles of class designation 100 over mummy roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat :									
12.19.1	With F.P.S. brick tiles	8	sqm	184.35	1475.00	-	-	-	-	
12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :									
12.21.1	In 75x75mm deep chase	16	metre	67.35	1078.00	-	-	-	-	
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	2	each	108.00	216.00	-	-	-	-	
12.37	Providing and fixing 100mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand)									
12.37.1	Stone ware spout	2	each	36.15	72.00	-	-	-	-	
12	Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes									As per Architectural Drawings
12.41.1	75 mm diameter	-	-	-	-	2.24	Mtr	145.70	326.00	
12.42	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.									As per Architectural Drawings
12.42.5	Bend 87.5°									
12.42.5.1	75 mm bend	-	-	-	-	3.00	each	113.25	340.00	
12.42.6	Shoe (Plain)									-----do-----
12.42.6.1	75 mm Shoe	-	-	-	-	3.00	each	167.85	504.00	

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
12.53	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38mm made from 0.33 mm thick (minimum) sheet, spaced 1200mm centre to centre, and cross 'T' of size 24x28mm made out of 0.33mm (Minimum) sheet, 1200mm long spaced between main 'T' at 600mm centre to centre to form a grid of 1200x600mm and secondary cross 'T' of length 600mm and size 24 x28mm made of 0.33mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600mm panel to form grid of size 600x600mm, resting on periphery walls /partitions on a Perimeter wall angle pre- coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick densified edges calcium silicate ceiling tiles of approved texture (Spintone / Cosmos/hexa) in the grid including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6mm fixed to ceiling with 2.5 mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200mm centre to centre along main 'T', bottom exposed with 24mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in- charge.									As per Architectural Drawings
						31.48	Sqm	1649.15	51915.00	
	FINISHING									
13.5.	15 mm cement plaster on rough side of single or half brick wall of mix :									
13.5.1	1:4 (1 cement: 4 coarse sand)	47	sqm	96.35	4528.00	-	-	-	-	
13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade									
13.41.1	New work (two or more coats) over and including priming coat with cement primer.	38	sqm	41.55	1579.00	-	-	-	-	
13.44	Finishing walls with water proofing cement paint of required shade :									
13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).	10	sqm	30.80	308.00	-	-	-	-	
	ROAD WORK									
16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	80	sqm	346.35	27708.00	-	-	-	-	

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement 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). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	1.1	cum	4,252.70	4678.00	-	-	-	-	
NS	Providing and laying cement concrete of 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20mm nominal size) in pavements having thickness 100mm to 125mm with Tremix system of flooring involving all required operations such as potter/surface vibrations, vacuum dewatering with suction mats with electrical pumps, side guide channels for side shuttering, screed vibrator, power trowelling, room finish to top surface, cutting grooves of sizes as per CPWD specification Vol.V by mechanical cutter for dummy (intermediate) & construction joints and filling with premoulded joint filler and laid to required slope, camber and super elevation and curing by ponding of water. The rates shall be inclusive of all operations machinery T&P electrical charges and labour involved etc. complete as per directions of Engineer-in-charge.	90	Cum	4619.00	415710.00	-	-	-	-	
	ALUMINIUM WORK									
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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt 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 and paneling to be paid for separately).									
21.1.1	For fixed portion									
21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	176	kg	306	53909.00	-	-	-	-	
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 PVC / neoprene gasket required (Fittings shall be paid for separately).									
21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	292	kg	326.60	95367.00	-	-	-	-	
21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ 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).									
21.3.1	With float glass panes of 4.0 mm thickness	20	sqm	554.95	11099.00	-	-	-	-	
21.3	Providing and fixing glazing in 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.									As per Architectural Drawings.
21.3.3	With float glass panes of 8 mm thickness.	-	-	-	-	11.81	Sqm	1338.40	15807.00	
21.11	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.									
21.11.3	355 X 19 mm	12	each	247.55	2971.00	-	-	-	-	

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
22	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :									As per actual requirement at site
22.2	Using rough Kota stone	-	-	-	-	24.40	Sqm	1243.25	30335.00	
23	Supply and installation of Gentas (G-ext)/Fundermax or equivalent High pressure compact laminates (HPL) or equivalent, decorative panels meeting European norm compliance of CE mark with Electron Beam Curing (EBC) having standard dimensions with thickness of 6mm having high resistance to impact, scratching, fire, water and humidity, it should not decompose and to be resistant to bacteria. HPL to be installed as per the structural requirement and as per the manufacturer's specification and as per direction of Engineer in Charge.					283.64	Sqm	3680.00	1043795.00	As per Architectural Drawings
E.I-1	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.					10663.78	kg	108.15	1153287.81	As per structural drawing issued by client department
E.I-2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.					257.51	cum	110.30	28403.35	As per actual requirement at site
E.I-3	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 : Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.					38.00	Mtr.	207.50	7885.00	
E.I-4	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.					34.11	sqm	419.85	14321.08	Due to change in scope of work.
E.I-5	Brick edging 7cm wide 11.4cm. deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).					57.78	sqm	686.35	39657.30	As per Architectural Drawings
E.I-6	Brick edging 7cm wide 11.4cm. deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).					40.22	Mtr.	39.45	1586.68	As per actual requirement at site.
E.I-7	Providing and fixing 18 mm thick gang saw cut, mirror polished, machine cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the Granite shade (To be secured to the backing by means of cramps, which shall be paid for separately). Area of slab over 0.50 sqm					178.32	sqm	4782.60	852833.23	As per Architectural Drawings

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
E.I-8	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. .	-	-	-	-	81.81	sqm	951.20	77817.67	As per Architectural Drawings
E.I-9	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	-	-	-	-	12.77	sqm	172.35	2200.91	-----do-----
E.I-10	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand)	-	-	-	-	155.57	sqm	200.60	31207.34	-----do-----
E.I-11	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	-	-	-	-	333.24	sqm	109.80	36589.75	-----do-----
E.I-12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work .Painting on aluminium tube for size 25X25mm for fundermax tiles	-	-	-	-	35.25	sqm	74.40	6342.60	-----do-----
E.I-13	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	-	-	-	-	19.38	cum	885.35	17600.76	-----do-----
E.I-14	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.	-	-	-	-	33.76	cum	1291.65	43606.10	-----do-----
E.I-15	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.	-	-	-	-	639.52	sqm	80.30	51353.46	As per the requisition of client department
E.I-16	Supplying and stacking at site. 90 mm to 45 mm size stone aggregate	-	-	-	-	143.20	cum	1463.50	209573.20	-----do-----
E.I-17	Supplying and stacking at site. 63 mm to 45 mm size stone aggregate	-	-	-	-	63.95	cum	1463.50	93590.83	-----do-----
E.I-18	Supplying and stacking at site. Stone screening 13.2 mm nominal size (Type A)	-	-	-	-	42.27	cum	1524.50	64440.62	-----do-----
E.I-19	Supplying and stacking at site : Stone screening 11.2 mm nominal size (Type B)	-	-	-	-	7.52	cum	1524.50	11464.24	-----do-----
E.I-20	Supplying and stacking at site : Good earth	-	-	-	-	16.50	cum	332.85	5493.68	-----do-----
E.I-21	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	-	-	-	-	273.45	cum	419.80	114794.31	-----do-----
E.I-22	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 : On W.B.M. @ 0.75 Kg / sqm	-	-	-	-	639.52	sqm	59.80	38243.30	-----do-----
E.I-23	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 : On bituminous surface @ 0.50 Kg	-	-	-	-	554.60	sqm	42.75	23709.15	-----do-----

Item No.	Description of Items	As per original			As per Revised estimate				Remarks
		Qty	Unit	Rate	Qty	Unit	Rate	Amount	
E-120	2.5 mm thick bituminous sheet with hot bitumen of standard quality, using stone chippings (80% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.55 cum per 100 sqm and coarse sand @ 1.05 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen including consolidation with road roller of 8 to 10 tonnes etc. complete. (Item to be paid separately) With paving Asphalt grade VG-30				554.1	sqm	225.00	1,246,725.00	
E-121	4 cm thick bituminous sheet with hot bitumen of approved quality, using stone chippings (80% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.55 cum per 100 sqm and coarse sand @ 1.05 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen including consolidation with road roller of 8 to 10 tonnes etc. complete. (Item to be paid separately) With paving Asphalt grade VG-30 with in run				517.95	sqm	122.00	63,189.90	
E-122	Providing and laying 12mm thick prefinished particle board (1) veneered three layer of graded wood particle board containing 10% (2520) Grade I Type II in penetrating resin in aluminum frame windows shutters and partition baffle with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of on price schedule. (A) Pre-veneered particle board with decorative lamination on both sides				2.73	sqm	133.40	364.18	
E-123	Providing and installation of aluminum composite panel cladding over a aluminum frame structure including fixing of double lock finish without any foundations. The composite panel sheet shall be a double layer sheets and filling of joints with structural silicon in accordance a smooth aluminum panel comprising as a sandwich polyethylene layer core compressed between the aluminum layers 0.5mm thick with a density of min 2.72 kg/sq cm. One side of the panel shall be a fluorocarbon paint finish with resistance to fading and expansion in exterior conditions and with a protective film which to be removed after completion of cladding. The sheet shall be 4 mm thick. Exterior grade of total balance with no distortion or deflection. The sheets shall be corrosion free steel and not be affected by varying temperature variations and should resist thermal expansion. The sheets shall be fixed over aluminum framing system of fixing of size 1" x 2" evenly spaced at maximum 2' c/c to provide complete support to the sheets. The sheets shall be fixed to the framed system with double sided tape and structural structural rivet.				494.50	sqm	563.00	2,78,303.50	
E-124	Providing and laying 12mm thick prefinished particle board (1) veneered three layer of graded wood particle board containing 10% (2520) Grade I Type II in penetrating resin in aluminum frame windows shutters and partition baffle with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of on price schedule. (A) Pre-veneered particle board with decorative lamination on both sides				12.38	sqm	225.00	2,785.50	
E-125	Providing and laying 12mm thick prefinished particle board (1) veneered three layer of graded wood particle board containing 10% (2520) Grade I Type II in penetrating resin in aluminum frame windows shutters and partition baffle with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of on price schedule. (A) Pre-veneered particle board with decorative lamination on both sides				55.30	sqm	225.00	12,442.50	

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
E.I-30	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with 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. (A) Granite of any colour and shade - area of slab over 0.50sqm.	-	-	-	-	20.02	sqm	4068.80	81457.38	As per architectural drawings
E.I-31	Pressed clay tile work for wall lining upto 10 m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement with an admixture of pigment to match the pressed tile shade : 8mm thick (machine cut edge)	-	-	-	-	31.59	sqm	1772.30	55986.96	As per architectural drawings
E.I-32	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 : 200 mm dia. RCC pipe	-	-	-	-	17.50	Mtr.	644.85	11284.88	As per the actual requirement at site.
E.I-33	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	-	-	-	-	7.63	cum	5624.95	42918.37	As per the actual requirement at site
E.I-34	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 to 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).	-	-	-	-	2.22	cum	13364.45	29669.08	As per architectural drawings
E.I-35	Providing and laying coloured floor designer tiles in pattern of approved make in M-30 grade (thickness to be specified by the manufacturer) of approved shade and design laid over 20mm thick bed of cement mortar 1:4 (1 Cement: 4 coarse sand) including filling and finishing the joints with cement slurry (50% white cement, 50% ordinary cement) mixed with pigment of matching shade and finally rubbing and cleaning the tiles etc complete as per direction of Engineer-in-charge.	-	-	-	-	213.37	sqm	1631.15	348038.43	-----do-----
E.I-36	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	-	-	-	-	2.68	sqm	264.10	707.79	-----do-----
E.I-37	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.: 15 mm nominal bore	-	-	-	-	21.90	Mtr.	200.65	4394.24	As per the actual requirement at site.
E.I-38	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.	-	-	-	-	1.00	No.	410.10	410.10	-----do-----
E.I-39	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)	-	-	-	-	1.00	No.	181.50	181.50	-----do-----
E.I-40	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long weighing not less than 88 gms.	-	-	-	-	1.00	No.	198.35	198.35	-----do-----
E.I-41	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	-	-	-	-	3.40	sqm	605.85	2059.89	As per the architectural drawings

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
E.I-42	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement: 3 fine sand) : Flush / Ruled/ Struck or weathered pointing.	-	-	-	-	15.87	sqm	104.05	1651.27	-----do-----
E.I-43	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead : Door chowkhats	-	-	-	-	4.00	Nos.	783.50	3134.00	As per the actual requirement at site.
E.I-44	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area beyond 3 sq. Metres	-	-	-	-	2.00	Nos.	138.05	276.10	As per the actual requirement at site.
E.I-45	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground.	-	-	-	-	1.00	No.	488.10	488.10	-----do-----

Item NO.	Description of Items	As per original estimate				As per Revised estimate				Remarks
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	
E.I-46	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Interlocking paver blocks supplied free of cost by the department)	-	-	-	-	35.33	sqm	208.85	7378.67	As per architectural drawings
E.I-47	White Makrana marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately): Area	-	-	-	-	8.70	sqm	11939.75	103875.83	-----do-----
E.I-48	Extra For colour coating on Agmt item no. 15.1 (i)	-	-	-	-	568.00	Inch	30.50	17324.00	-----do-----
E.I-49	Supplying and fixing C.I. cover 300x300 mm with frame for gully trap (standard pattern) the weight of cover to be not less than 4.5kg.	-	-	-	-	4.00	Nos	290.95	1163.80	As per the actual requirement at site.
E.I-50	Providing and fixing steel cap for granite work with quick adhesive or fevi	-	-	-	-	53.00	Nos.	21.95	1163.35	-----do-----
E.I-51	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area beyond 3 sq. Metres	-	-	-	-	2.00	Nos.	138.05	276.10	-----do-----
TOTAL					3023529.00				12617975.86	
Add Cost index @ 37 %					813E14.00	Add Contingencies @ 3 %			378539.28	
TOTAL					3837243.00	TOTAL			12996515.14	
Add Contingencies @ 3 %					115117.00	Add labour cess @ 1 %			129965.00	
TOTAL					3952360.00				13126480.14	
Add Labour Cess @ 1 %					39524.00					
TOTAL					3991884.00					
Add VAT @ 4 %					159675.00					
Grant Total					4151559.00					

For civil works
For electrical works

Say 4151600.00
4147500.00
Grand Total 8299100.00

R. Joshi
21/08/2015
Assistant Engineer(P-III),
Chandigarh Central Circle,
CPWD, Chandigarh.

Say 13126500.00
4147500.00
Grand Total 17274000.00

M. S. Dhillon
Executive Engineer (P),
Chandigarh Central Circle,
CPWD, Chandigarh.

Revised preliminary estimate amounting to Rs. 1,72,74,000/- (Rs. One crore seventy two lac & seventy four thousand only)
is hereby submitted to the client department for accord of revised A/A & E/S by the competent authority.

M. S. Dhillon
Superintending Engineer,
Chandigarh Central Circle,
CPWD, Chandigarh.

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

संख्या- 20(NIT)/क के.नं/2016/ 347

सेवा में,

The Dean (Estt),
NIT, Kurukshetra

विषय : Justification for revised estimates

As per discussion held in the meeting on dt. 20.11.2016 in the chamber of Sh. S.N. Kaashik, AE (Civil), NIT, Kurukshetra the required justification for revised estimates for the following works is as under :-

S.No.	Name of Work	Justified reasons for revised estimates
1.	C/o 600 Seater Girls Hostels (Multi Storeyed) RCC framed structure (Ground + 5) w/ internal & external Water Supply, Sanitary Installation, Internal Electrical Installations, Drainage & Development of site in NIT, Kurukshetra (Haryana)	The revision is required due to the fact that the total A/A & E/S amounting to Rs 4899 lacs earlier issued by NIT authorities vide their letter No. CC/18 dated 07.01.2013 was based on preliminary estimate prepared by Govt own based on PAR 2007 duly enhanced by 25% for cost index & does not include Service Tax. CPWD being the Principal Employer has to reimburse the same to the tax contractor executing the work. Also there is Significant increase in cost of material & labour during the period between receipt of original A/A & E/S & start of work. The tender for this work was finalized in May, 2014. Hence Revised preliminary estimate has been framed based on PAR-2012 duly enhanced with approved cost index as on 01-07-2014 & including Service Tax, to obtain the revised A/A & E/S from the competent authority.
2.	Provision of university gate and kirch road main gate at NIT, Kurukshetra	The revision is required due to change in architectural drawings as approved by NIT Authorities and execution of major additional work as directed by client dept.
3.	Construction of 3 storey bharer barracks comprising of 2 blocks including electrical installation at NIT Kurukshetra	The revision is required due to the fact that the total A/A & E/S amounting to Rs. 245.00 lacs earlier issued by NIT authorities vide their letter No. CC/20/97 dated 07.01.2013 was based on preliminary estimate prepared by NIT Authorities on PAR 2007 duly enhanced by 25% for cost index not including Service

		Tax & being the Principal Employer, CPW is to reimburse the same to the agency executing work. Also there is significant increase in cost of material & labour during the period between receipt of original A/A & E/S & start of work. Hence Revised preliminary estimate has been framed based on PAR-2012 duly enhanced with approved cost index as on 01-07-2014 & including Service Tax to obtain the revised A/A & E/S from the client dept.
4.	C/o 300 Seater Multi-Purpose Boys Hostel w/ 100 Suites for Foreign Students, Research Scholars and Married PG Students (Multi-storeyed framed structure) (G+5) w/ internal Water Supply, Sanitary Installation, Drainage & Internal Electrical Installations at NIT, Kurukshetra (Haryana)	The revision is required due to the fact that sanction of Rs. 3596 lacs was conveyed by the NIT authorities based on their own estimate in which so many provisions such as additional height of each floor, deeper foundation, no provision for green building norms, labour cess, VAT, EPF, ESIC and no cost index was taken at the time of giving sanction in Jan. 2013. The revised estimate has been submitted based on the actual plinth area of the building i.e. 15675 sqm considering PAR 2012 rates with upto date cost index of 9% and all the provisions of Labour Cess, VAT, Service Tax, EPF, ESIC, Green Building norms has been considered. In the sanction given by your department Rs. 42 lacs was included for 2 Nos. lifts whereas as per approved Architecture drawings 4 Nos. lifts amounting to Rs. 1,12,00,000/- has been taken in RPE.

कार्यपालक अभियंता
करनाल केन्द्रीय मण्डल
के.लो.मि.पि, करनाल

पृ. 110-145
Dated, 6/2/16

स्पीड पोस्ट

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

संख्या- 20(NIT)/यो.शा./क.के.मं/2016/ 482

दिनांक 4/2/16

सेवा में,

Dean (Estate),
NIT, Kurukshetra

PIE(E&C)

10.02.2016

11/2/16

10/2/16

विषय : Provision for university gate and kirmich road main gates at NIT, Kurukshetra.

संदर्भ : AE, NIT Kurukshetra letter No. 24(13)/AE(K)/2015-16/Site Dt. 23.1.2016.

Kindly refer to above cited subject and meeting in your office, the increase in cost of the above work is due to following facts :-

1. Due to structural design by NIT, Kurukshetra. The quantity deviated in RCC, centring shuttering, reinforcement and extra item of M.S. tubular truss.
2. Extra work for approach roads on both gates as desired by client deptt. Vide letter No. CC/46/1706 Dt. 26.3.2014 issued by Dean (Estate), NIT, Kurukshetra.
3. As per architectural drawings and requirement of client department, the qty. increased in S.S. alphabets and emblem of institute on both gates vide letter No. CA-NR-1/501/2014/634 Dt. 16.4.2014 issued by Chief Architect, CPWD, Chandigarh.
4. Extra work of Aluminium Composite panel on all sides of steel truss as desired by Chief Architect with the consultation of client deptt. Vide letter No. CA-NR-1/501/2014/634 dt. 16.4.2014.
5. Extra work for c/o boundary wall with granite on main gate entrance as desired by client deptt. and drawing issued by Chief Architect vide No. CA-NR-1/501/145/P.D./01 Dt. 16.5.2014.
6. Extra work for c/o Islands for landscaping at main gate inside and outside portion as desired by client deptt. and drawing issued by Chief Architect vide No. CA-NR-1/501/167/P.D./27 Dt. 5/2014.
7. Extra work of pathway design in front and rear of main gate and university side gate as required by client deptt. And drawing issued by Chief Architect vide drawing No. CA-NR-1/501/194/W.D./28 Dt. 2.7.2014.
8. Extra work for white marble stone under the name and emblem of Institute as desired by client deptt. and letter issued by Chief Architect vide No. CA-NR-1/501/2014/897 Dt. 2.9.2014.

प्रतिलिपि :-

1. सहायक अभियंता, एन.आई.टी. कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि., कुरुक्षेत्र को उनके उपरोक्त संदर्भित पत्र के संदर्भ में सूचनार्थ प्रेषित।

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

- 21.5 To consider and approve the Revised Cost estimate for construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that final completion cost of construction will be submitted by CPWD with detailed justification latest by 10th Jun 2016.

- 21.6 To consider and approve the Revised Cost estimate for various re-carpeting of roads:

- a) From main approach road to Guest House and around Guest House.
- b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
- c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
- d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK.

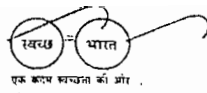
The B&WC deliberated on the matter and resolved that the Institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June, 2016.

- 21.7 To consider and approve the Revised Cost estimate for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra.

The B&WC deliberated on the matter and resolved that the institute will convey change in scope of work to CPWD. In turn, CPWD will submit the final completion cost with justification for increase in cost latest by 10th June 2016.

- 21.8 To consider & approve the Revised cost estimate for the provision for two nos. Institute Main Gate at -NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with detailed justification latest by 10th Jun 2016.



केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय मण्डल
एन.डी.आर.आई. कैम्पस करनाल

चण्डीगढ़ केन्द्रीय परिमण्डल
को.सो.नि.वि. चण्डीगढ़
दिनांक 3589
8/6/16

दिनांक 7/6/2016

संख्या- 20(142)/यो.शा./क.के.मं/2016/233)

सेवा में,

Dean (Estate),
NIT, Kurukshetra

विषय : Provision for University gate and kirmich road main gate at NIT, Kurukshetra.

संदर्भ : 21st BWC meeting with NIT authorities on dated 27.05.2016.

During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification and actual cost of the above said work for which revised Preliminary Estimate has already been submitted by Superintending Engineer CPWD vide his office letter no. च.के.परि. 23(4515)/नि.3/255 दिनांक 21.08.2015 for Rs. 1,72,74,000/-.

EE (P)/AE (P)

AE (MIS)

AE (CO)

CC

CC/EC

SA/GADC

AAO

Justification for this work is as detailed below:-

The original Preliminary detailed Estimate for the civil work was framed for Rs. 41.516 lac and A/A & E/S amounting to Rs.82.99 lac (41.516/- civil + 41.475/- Electrical) was received vide NIT Authority letter no.CC/14 dated 07.01.2013.

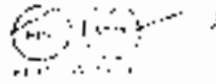
As the detailed estimate based on the actual execution has already been submitted to client department vide above referred letter of SE(C) in which civil expenditure comes out to be Rs.1,29,29,515.00. But as verified from the division office as per final expenditure booked against this work it come out to be approximate 1,16,50,000.00. So this should be considered as the final expenditure for the civil work.

Justification for the increase in cost for civil work for the amount of approximate (116.500 – 41.516 = 74.984 lac) is mentioned below :- The same has been conveyed to client department vide Letter No. 20(142)/PB/KCD/2016/2250 dated 02.06.2016.

1. In the estimate only the provision of stainless steel gate with small wicket gate and security post at centre was taken, without based on any architect drawings. Previously there was not exclusive Gate for NIT and the entry was through the Main Gate of Kurukshetra University. But as the NIT came up as a Deemed University and as per NIT Authority proposal to have one separate

Entrance Gate on Kirmich Road Side. During the meeting in between Architect & NIT Authorities. The conceptual Architectural drawings for Main Entrance Gate and 2nd gate on University Side were prepared and finalized by the NIT Authorities. Accordingly work got executed after structural drawings prepared based on the Architectural drawings. As per structural drawings, the quantity deviated in RCC, Centring Shuttering, reinforcement and extra item of M.S Tubular Truss. With a net increase in structure cost = 13.50 lac.

2. After the structure work it was decided to demolish the existing side wall and security cabin etc. with demolishing cost about Rs. 60,000.00.
3. The same demolished walls were reconstructed as desired by the client department and drawing issued by Chief Architect vide letter no. CA-NR-1/501/145/P.D./01 dated 16.05.2014. Due to this extra brick amounting to Rs. 1.50 lac done. On this, as per drawing granite wall lining work was got done with a cost of about Rs. 9.50 lac.
4. The client department Vide their letter no CC/46/1706 dt. 26.03.2014 requested to wide the road for the smoothing incoming and outgoing of traffic. As this was not in the scope of work. Widening of about 600 sqm was done as per actual requirement and decisions at site. In this road work, expenditure of about Rs. 11.00 lac incurred.
5. As per client requirement & discussion at site, pathway with colored chequered tiles was provided as per the drawing No. CA-NR-1/501/194/W.D./28 dated 02.07.2014. issued by the Chief Architect. It cost about Rs. 4.5 Lac.
6. As per discussion at site, it was decided that for channelizing the movement of incoming and outgoing traffic Green Island to be provided on both side of the security post. The same was done as per drawing issued by the chief Architect vide letter no. CA-NR-1/501/167/P.D./27 dated 05/2014. It costed extra work of half brick work and clay tile wall lining work. Also to guard the island and increase aesthetic beauty SS posts with chain links were provided around the islands. It resulted in extra cost of about Rs. 1.50 Lac.
7. Aluminium composite panel on all sides of steel truss provided, as desired by Chief Architect with the consultation of client department vide letter no. CA-NR-1/501/2014/634 dated 16.04.2014. It resulted in expenditure of Rs 24.50 Lac.
8. The fundermax cladding area increased as per architectural drawings and it caused a deviated cost of about Rs. 3.00 lac.
9. As per Architectural drawings and requirement of client department, the qty, increased in S.S. alphabets and institute Logo on both gates vide letter no CA-NR-1/501/2014/634 dated 16.04.2014 issued by Chief Architect, CPWD, Chandigarh. It increased extra cost of about 2.6 lac.
10. It was decided at the site that white marble stone under the name and emblem of institute to be provided. The same was provided as per letter



Issued by Chief Architect, Adv. No. CA/NR-1/501/2014/PS / dated 02.09.2014. The costs about Rs 1.00 lac.

Because of all the reasons stated above to improve the aesthetic beauty of the Gate and make it a symbol for the NIT, most scope of work changed and number of extra items being executed and the work cost increased from 41.516 Lac to 116.50 lac.

So it is requested that the total expenditure may be worked out by adding Electrical actual expenditure in this civil expenditure of 116.50 lac and submit to NIT authority for the sanction of Revised AA & ES.

प्रतिवेष्ट :-

1. अधीक्षण अभियंता, चण्डीगढ़ सेन्ट्रियल परिगण्डल, के.लो.वि.पि, रीयटर-9ए, केंद्रीय सदन, चण्डीगढ़ को सूचनाार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. सहायक अभियंता, कुरुक्षेत्र केंद्रीय उप-मण्डल, के.लो.वि.पि, धुराक्षेत्र-8 को उनके पत्र सं० 24/NIT/A/E/K/2016/Site दिनांक 06.06.2016 के संदर्भ में सूचनाार्थ प्रेषित।

कार्यपालक अभियंता
करनाल केंद्रीय मण्डल
के.लो.वि.पि, करनाल

कार्यपालक अभियंता

Minutes of the Meeting of External Technical Committee held on 13.06.2016 at 11:00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra

The following were present

- | | | |
|---|--|----------|
| 1 | Prof. Vasendra Kumar
Prof. Civil Engineering, Deptt
'11 (BHU) Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Institute Engineer,
IIT, Roorkee | Member |
| 3 | Sh. G.K. Taneja
Executive Engineer(Electrical)
IIT, Delhi | Member |

The Committee decided as under

1. To discuss ~~and~~ the Revised Cost estimate with detailed reason for increase in cost for various re-carpeting of roads
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
 - c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - d) From NIT Gate (towards KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NITK

Since approval from the competent authority has already been taken in the case after looking into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for (a+b+c) Rs. 45,89,489/- and for (d) Rs. 28,04,818/-

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kirmuch road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected by CPWD)

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee

Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 2,95,48,549/-

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra

As the work has already been completed as post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,58,38,000/-

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose boys hostel including 100 suits for foreign students, research scholars and married PG Students. (Multi-storeyed framed structure) (Ground +5) at NIT, Kurukshetra.

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,65,79,100/- projected by CPWD is recommended for the approval of the competent authority;

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 500 seater Girls Hostel (Multi-Storeyed Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed as post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,29,30,441/-

To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CWC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.

A part work has already been completed, so post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,300/-.

8. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

Item No. 8 does not come in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction primarily because CPWD took contract action based on estimates given by NIT Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

(Veerendra Kumar)

(Ajay Sharma)

(G K Taneja)

Director

The recommendations of the Committee may be placed on the agenda of the next meeting.

Item No.22.9 To consider and approve the Revised Cost estimate for Replacement of CIAC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra

The administrative approval and expenditure sanction for Replacement of CIAC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra was conveyed to CPWD for amounting to Rs. 175.00 lacs vide letter no CC/11/88 dated 07/08.01.2013. The work was awarded to contractor by CPWD vide letter no 54(NIT)/KCD/2014/1318 dated 23.04.2014. During the execution of the work, the Superintending Engineer (Civil), CPWD Chandigarh submitted the revised cost estimate for Administrative Approval & Expenditure Sanction vide letter no CCC/23(4515) NIT-3/943 dated 22.04.2013 for an amount of Rs. 222.05 lacs. The same was approved by the B&WC in its 17th meeting vide item No. 17.4 held on 27.6.2013. The revised A/A & E/S was conveyed to CPWD vide this office letter no CC/262/120/4 dated 14.11.2013 for an amount of Rs. 222.05 lacs. When the work was nearly to completion, the CPWD submitted revised cost estimate through Superintending Engineer (Civil), CPWD, Chandigarh for an amount of Rs. 2,72,31,300/- vide letter no. CCC/23(4515) NIT-3/180 dated 14.01.2016. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. The Building & Works Committee decided as under:-

"The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with justification and same be put up before the next meeting of Building & Works Committee for further consideration.

Accordingly the CPWD submitted the realistic cost estimate with justification for increase in cost for an amount of Rs. 2,72,31,300/- vide letter No. 20(142) PS/KCD/2016/2377 dated 10.6.2016. The same was put up before External Technical Committee meeting held on 13.6.2016 in the Board Room of Golden

Committee discussed the revised estimate in detail and decided as under

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,300/-.

The Building & Works Committee may consider and approve the realistic cost of the work for Replacement of CI/AC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional Building at NIT, Kurukshetra with an amount of Rs. 2,72,31,300/-.

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CC. II / 2013

Dated 27/01/13

The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
448, Subhash Colony
Karnal

Subject:- Administrative approval & Expenditure sanction for Replacement of C.I.A.C. water supply lines with Centrifugally Cast (Spun) Iron Pipes Class L.A. in the Residences, Hostels & Instructional Building at NIT, Kurukshetra.

Reference:- MoU dated 20.12.2012 & approval of the Hon'ble Director on dated 04-01-2013

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under:-

Sr. No.	Name of Work	Amount REC (Rs. in Lacs)
1	Replacement of C.I.A.C. water supply lines with Centrifugally Cast (Spun) Iron Pipes Class L.A. in the Residences, Hostels & Instructional Building at NIT, Kurukshetra	Rs. 475.00 (Rs. One Hundred Seventy Five Lacs Only)

Dean (Estate)

For Director

Copy to:

1. SS to Director for the kind information of the Hon'ble Director.
2. Chief Engineer (NZ-R), Chandigarh CPWD, Kendriya Sadan, Sector-D, CPWD, Chandigarh.
3. SE (Elect.) Chandigarh Central Electrical Circle, Kendriya Sadan, Sector 9-A, CPWD, Chandigarh.
4. SE (Civil) Chandigarh Central Circle, Kendriya Sadan, Sector-9-A, CPWD, Chandigarh.
5. Executive Engineer (Elect.), Central Public Works Department, Karnal Central Electrical Division, 22-A Indira Colony, Karnal-132002.
6. Registrar
7. Prof. VC (E & C)
8. Prof. VC (EM)
9. DR (Acc)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (Elect)
13. J.E. (Civil)

Recd

27/1/13

27/1/13

11/2/73

सं. 11/2/73/11/600

11/2/73/11/600

Sh. Harpal Singh,
Flat No. 44, Sakdara Apartment
Indra Bazaar, New Delhi

Subject: Replacement of C/A/G water supply lines with centrifugally cast (spun) iron pipe class LA in Residences, Hostel and instructional building at Mt. Kurukshetra

Reference: For information of the above subject, reference is made to the letter dated 11/2/73/11/600.

Details:

Your item rate tender for the work mentioned above has been accepted on behalf of the President of India at your tendered amount of ₹ 2,29,30/100/- (Rupees Two Crores Twenty Nine Lacs Three Thousand Four Hundred & Nine Only) which works out to 47% (Six Decimals) from the estimated value above against the estimated cost of ₹ 2,15,12/10/- (Rupees Two Crores Fifteen Lacs Twelve Thousand Four Hundred & Twelve Six Only).

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

You are also requested to arrange the Assistant Engineer, Kurukshetra Central State Division, CPWD, Kurukshetra for taking possession of the land and starting the work at once. Please note that the time allowed for carrying out the work is agreed in the tender is Six Months, shall be reckoned from 10.1.73.

आदेशित,

सचिव,
राज्य योजना आयोग,
नया दिल्ली, भारत

प्रतिलिपि - 2

1. मूल प्रतिलिपि
2. राष्ट्रीय आयोग, राजकीय योजना आयोग, के.ए. वि. वि., नया दिल्ली को प्रेषित करने के लिए 11/2/73/11/600/प्रतिलिपि-11/600/प्रतिलिपि-11/600 के संदर्भ में प्रतिलिपि प्रेषित।
3. निदेशक, राजकीय वि., नया दिल्ली।
4. आचार्य आयोग, आचार्य आयोग, नया दिल्ली।
5. सचिव, राजकीय वि. वि. (उ.प्र.), के.ए. वि. वि., नया दिल्ली, नया दिल्ली।
6. आचार्य आयोग, नया दिल्ली, नया दिल्ली, नया दिल्ली।
7. 8. राजकीय आयोग (प्रति) राजकीय आयोग, नया दिल्ली, नया दिल्ली।
9. आचार्य आयोग (प्रति) राजकीय आयोग, नया दिल्ली, नया दिल्ली।

सचिव, आयोग

केन्द्रीय शिक्षा विभाग
 कक्षा शिक्षण विभाग
 केन्द्रीय शिक्षण संस्था २-१०, कक्षा-१००००९

विषय - Replacement of C. JAC water supply lines with centrifugally cast (spun) iron pipes class L.A. in Residence, Hostels & instructional building at N.T, Kurukshetra.
PROJECT - २०१३ - २०१४

प्रस्ताव

सम्बन्धित कार्य का 2,22,00,000/- रुपये का अनुमानित अंश इस प्रकार का है।
 पत्रिका में सत्यापन किया जाता है। इस कार्य के लिए आवेदन, क्रमांक पत्र संख्या : ००/११ dated 7-1-2013 द्वारा भेजा गया था। आगे आगे अधीन है। अनुमान को शीघ्र स्वीकृत करने की कृपा का अनुरोध। समय का साथ-साथ मुख्य अधिकारी के दृष्टि में जो आवश्यक है। कार्य के निष्पादन में बाधा न पड़े। कार्य की स्वीकृति करने के लिए कृपया 7/1/2013 द्वारा, जो कार्य स्वीकृति करने के लिए प्रेषित नहीं है।
 संलग्न अनुमानों की प्रतियां।

प्रार्थना

संलग्न अधिका, Totalax - 2743828

प्रतिलिपि -

- 1 मुख्य अधिकारी (उ अ-१), के.जी. वि. वि. केन्द्रीय रजि., सैक्टर-१०, कक्षा-१०।
- 2 कक्षापालक अभियंता, केन्द्रीय केन्द्रीय मण्डल, के.जी. वि. वि., कक्षापालक अनुमान की एक प्रति सहित।

अधीक्षक अभियंता

GOVT. OF INDIA

State - Haryana

Division - Karnal Circle

Branch - E&S

Name of work - Replacement of P.C.I. AC water supply lines with centrifugally cast (spun) iron pipes class 125 in the Residence, Hostels & Institutional building at NRI Kurukshetra.

<u>Major Head</u>	<u>Minor Head</u>	<u>Detailed Head</u>
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This Preliminary cum detailed estimate framed by Mr. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal and further processed by Mr. R.K. Gaudin, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh for the probable cost of ₹2,22,05,000/- (Rs. Two crore twenty two lacs five thousand only) including 3% contingencies.

REPORT

HISTORY: - This Preliminary cum detailed estimate amounting to ₹2,22,05,000/- including 3% contingencies has been framed to cover the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The A/A & E/S for the above said work has been received from client department vide letter No.CC/1 dated 7-1-2012 for amounting to Rs 175.00 lacs. Client department has accorded the A/A & E/S on the estimate framed in house on the basis of HSR 1988, but the sanctioned amount is not sufficient to meet the required scope of work as on today. Hence the estimate has been reframed as per DSR 2012 enhanced by prevailing approved cost index for obtaining fresh A/A & E/S of competent authority.

DESIGN & SCOPE: Following provision has been made (for civil work only) in the estimate.

1. Excavating trenches for pipes, cutting roads and making good in the same
2. P/F S&S centrifugally cast (spun) ductile iron pipe and fittings
3. P/F sluice valve, C/o chamber etc.
4. P/F G.I. pipe with G.I. fittings for connection with brass ferrule etc.

Specifications:- CPWD Specifications 2009 Vol. 1 & II with up to date correction slips.

Rate:- D.S.R. 2012

Cost:- ₹2,22,05,000/- including 3% contingencies.

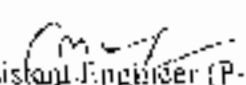
W.C. Estt:- Shall be met out of contingencies.

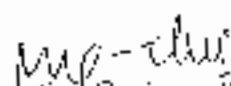
T&P:- Shall be arranged by the contractor.

Method:- By Contract after call of tender.

Land:- Available.

Time:- Ten months.


Assistant Engineer (P-13),
Chandigarh Central Circle
CPWD, Chandigarh


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

SCHEIDT, G. L. CO. & SONS

$\Delta_{\text{max}} = \max_{i \in \{1, \dots, n\}} \|\mathbf{v}_i\|_2$ is the maximum value of the norm of the vectors $\mathbf{v}_i$ and $\Delta_{\text{min}} = \min_{i \in \{1, \dots, n\}} \|\mathbf{v}_i\|_2$ is the minimum value of the norm of the vectors $\mathbf{v}_i$. The value of Δ is the maximum of Δ_{max} and Δ_{min} .

[illegible]

S.No.	Item Code	Description of item	Qty	Unit	Rate	Amount
3.2	18.20	1.5 mm nominal bore 15 mm nominal bore Providing and fixing the same	185.00	each	261.70	48311.50
3.4	18.21	Providing and fixing S&S CI standard specials such as tees, bends, elbows, laps, caps etc (leave ones):				
3.4.1	18.21.1	Up to 300 mm dia	75.00	quantity	4202.35	315050.00
3.5	18.31	Providing and fixing CI sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be made separately):				
3.5.1	18.31.1	100 mm diameter				
3.5.1.1	18.31.1.2	Class II	71.00	each	3498.50	248399.00
3.5.2	18.31.3	150 mm diameter				
3.5.2.1	18.31.3.2	Class II	19.00	each	5260.40	202816.00
3.5.3	18.31.4	200 mm diameter				
3.5.3.1	18.31.4.2	Class II	15.00	each	11260.60	168909.00
3.6	18.34	Constructing nursery Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with CI surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained L6 and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), or 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 1:2 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of 1:1 cement complete as per standard design:				

NATIONAL INSTITUTE OF TECHNOLOGY
KUPURSHETRA 136 119

No. CPWD/136/119

Date: 10/10/77

To
The Executive Engineer (Civil)
Central Public Works Department
Karnal Central Division
449, Subhash Colony
Karnal

Subject: Revised Administrative approval & Expenditure sanction works allotted to CPWD, Karnal at NIT, Kurukshetra.

The revised administrative approval and expenditure sanction is hereby conveyed for the execution of the following works with the estimated amount as under:

Sr. No.	Name of Work	Amount REC (Rs. in Lacs)
1	Construction of Administrative Block at NIT, Kurukshetra	955.34
2	Providing & installation of electrical Sub-Station (HT/DT distribution including Street Lighting & Feeder cables etc. in Non Residential area of NIT, Kurukshetra	724.90
3	Construction of Boundary wall (left and stretched) for a length of about 400 meters and gate house (left) at NIT, Kurukshetra	84.50
4	Replacement of C.I./A.C. water supply lines with extruded galvanized Steel (Spun) Iron Pipes Class I.A. in the Residences, Hostels & Instructional Buildings at NIT, Kurukshetra	275.05

(Signature)
Dean (Estimate)

Copy to

1. SE to Director for the kind information of the Hon'ble Director.
2. Chief Engineer (WZ-1), Chandigarh CPWD, Karam Singh Sadan, Sector-9-A, CPWD, Chandigarh.
3. SE (WZ-1) Chandigarh Central Electrical Circle, Karam Singh Sadan, Sector-9-A, CPWD, Chandigarh.
4. SE, Civil Chandigarh Central Circle, Karam Singh Sadan, Sector-9-A, CPWD, Chandigarh.
5. Executive Engineer (Civil), Central Public Works Department, Karnal Central Electrical Division, 22-A Indira Colony, Karnal-132021.
6. Registrar
7. Prof. I/C (E & C)
8. Prof. I/C (EM)
9. DIP (Acad)
10. Executive Engineer, Construction Cell
11. A.E. (Civil)
12. J.E. (WZ-1)
13. J.E. (WZ-1)

The action taken report on most of the decisions could not be presented for approval, it pending from F.O and E.O of the Institute. Members were informed that the same would be presented in next meeting of B&WC.

- 17.3 To consider & approve the Revised Cost Estimate for construction of Boundary wall (left out stretched) for a length of about 800 meter and gate (near UHBVN office) at NIT, Kurukshetra.

The Building & Works Committee considered and approved the revised cost estimate submitted by CPWD for the work for an amount of Rs. 34,275 lacs. It was decided that CPWD will submit justification for the revision in estimate and change in design and the same has been attached as Annexure-I.

- 17.4 To consider & approve the Revised Cost Estimate for replacement of C.I./A.C. water supply lines with centrifugally Cast (Spun) Iron Pipes Class L.A. in the Residences, Hostels & Instructional Building at NIT, Kurukshetra.

The Building & Works Committee considered and approved the revised cost estimate for the work for an amount of Rs. 222.05 lacs. It was decided that proper provision for future expansion should be made in the design so as to ensure adequate pressure head in distribution system. In order to avoid misuse and wastage of water, provision of metering system in the Institute should also be made. A detailed plan of the water supply distribution system should also be submitted by CPWD.

- 17.5 To rectify action taken by Chairman B&WC to accord A/A & E/S for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra.

The Building & Works Committee considered and approved the action taken by Chairman B&WC to accord A/A & E/S for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra in view of the visit of His Excellency, the President of India to the Institute.

- 17.6 To consider & approve the Cost Estimate for provision of permanent and temporary huts for security guards at various locations in the Institute.

The Building & Works Committee considered the issue and decided that the work be assigned to the CPWD. Further, CPWD be requested to provide design along with cost estimate for the provision of permanent and temporary huts including facility for electricity supply, telephone and drinking water for security guards. In order to avoid any further delay in work, it was decided that Chairman B&WC be authorized to approve any revision in cost estimate due to additional provisions.

60-114

$$\text{fit} = \{x_1\} \sqrt{1/6}$$

The Registrar,
National Institute of Technology,
Kharagpur-731005.

Year - Replacement of CMAA water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and instructional building of NCC, Kuvempu.

उपरोक्त कार्य का-27/02/2017/0003/- कार्य राशि का अंशोक्त प्रत्येक अनुमति इसके राशि को प्रतिष्ठ में अलग किया जाता है । इस कार्य के लिए आवेदन आगने पत्र प्रकाश, C/C/25/06/01/4743 dated 21-8-2015 द्वारा भेजा गया था । आगने अनुमति है कि अनुमान को जोड़ स्वीकृत करने की कृपा करें अन्तर्गत समय के साथ-साथ मुख्य शुल्क-कार्य में वृद्धि करने के अन्तर्गत इस कार्य के निष्पादन में काठिमाई को सहायता है । कार्य की पूर्णता करने समय लेखा शीर्ष (विड ऑफ अकाउंट) का नाम भी उल्लेख करने की कृपा करें ।

रुलरन्, अगुमान (दो) प्रतिभाः

246

અહીંના સંસ્કૃતિ:

प्रतिज्ञाः -

1. मुख्य अभियंता (ज.अ.नं.) के लॉ. नि. नि. केन्द्रित मजदूरा, लैक्टोर-9-2, चाण्डीगढ़ ।
 2. कार्यपालक अभियंता, वरनाह केन्द्रित मजदूरा, के.लो. नि. नि. मारवाहा ।
- संलग्न अनुदान (एक प्रति) :

અર્ધજ્ઞાન અભિયંત્ર

724 180116

✓ D.O. (Estate)

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Received 11.2.2016

22/11/16

14/04/2018

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S	[illegible]	[illegible]

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: KARNATAKA DIVISION: KARNAL CIRCLE BRANCH: R&P

Name of work: Replacement of C.I. water supply line with centrifugally cast (Spun) non pressure C.I. in KVS' colonies, Hostels and instructional building at NIT, Kurukshetra

Major Head: Minor Head: Detailed Head:

This revised preliminary estimate framed by Mr. Varun Kumar, Executive Engineer, Karnal Central Divn. CPWD, Karnal and further processed by Mr. R. K. Gendhi, Executive Engineer (P), Chandigarh Central Circle, CPWD, Chandigarh of the probable cost of Rs.2,72,31,300/- for contingencies.

REPORT

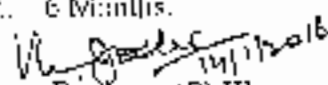
History. This revised preliminary estimate amounting to Rs.2,72,31,300/- i/c 3% contingencies has been framed to cover up the probable cost of the above mentioned work for record of revised A/A & E/S from the competent authority. The requisition for revised estimate of the above work has been received from NIT authorities vide their letter No. CC/3555/93/4743 dated 31-8-2015. The revision is required due to the fact that in the original estimate, the provision for Service Tax was not made. CPWD being the principal employer has to reimburse the same to the contractor executing the work. Also, there is significant increase in cost of material and labour during the period of submission of preliminary estimate as the rate and cost of work. Hence the revised preliminary estimate has been framed based on DSR-2014 duly enhanced with approved cost index as on 01-07-2014 and including Service Tax to obtain the revised A/A & E/S from the competent authority.

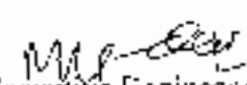
Design & Scope.

Following provisions have been made in this estimate

1. Excavating trenches of required width for pipes, cables etc.
2. Providing and laying S&S Centrifugally Cast (Spun) Ductile Iron Pipes conforming to IS 8329 of dia 100mm, 150mm, 200mm, 250mm class K-7 pipe.
3. Providing and fixing C.I. sluice valves of dia 100 mm, 150mm, 200mm, 250mm.
4. Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)
5. Providing and fixing C.I. double acting air valve.
6. Providing and fixing C.I. pipes for inlet connection.

Specifications: As per CPWD specification 2009 Vol-I to II with up to date correction slips.
Rate: As per DSR 2014 duly enhanced with approved cost index.
Amount: Rs.2,72,31,300/- i/c 3% contingencies
W.C Estt.: Shall be met out of contingencies.
T&P:- Shall be arranged by the contractor
Land: Available
Method: By contract after call of tenders
Time allowed: 6 Months.


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


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



Abstract of Cost - Original Estimate

Name of Work : - Replacement of CIAC water supply lines with centrifugally cast (Span) iron pipe class I.A in Residences, Hostels and instructional building at NIT, Kurukshetra.

S.No.	DSR item	Description of Item	Unit	Original Estimate			Revised Estimate			Remarks
				Qty.	Rate	Amount	Qty.	Rate	Amount	
				DSR-2012			DSR-2014			
1		SH:- EARTH WORK								
1.1	2.10	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 the 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.								Qty. excavated as per depth table
1.1.1	2.10.1	All kinds of soil								
1.1.1.1	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	11325.00	169.50	1885356.00	12975.30	225.30	2921275.00	
2		SH:- CONCRETE WORK								
2.1	4.1	Providing and laying in prepared cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level								Qty. excavated as per depth table
2.1.1	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	—	—	—	50.00	5466.30	273315.00	Qty. excavated as per depth table
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	—	—	—	50.00	2954.00	147700.00	Qty. excavated as per depth table

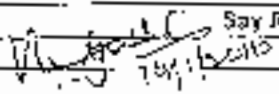
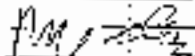
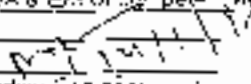
S.No.	DSR Item	Description of Item		Original Estimate			Revised Estimate			Remarks
3		HALF BRICK MASONRY								
3.1	6.12	Half brick masonry with common bond using F.F.S. (non modular bricks of class designation 7.5 in foundations and plinth in								Qty calculated for 100 nos. 5 gage under cutwaters in 100 m yards of
3.1.1	6.12.2	Cement mortar 1:4 (Cement : 4 coarse sand)	sqm	---	---	---	431.00	544.75	2544.00	Inducted to plan
4		SH:- DISMANTLING AND DEMOLISHING								
4	15.2	Demolishing cement concrete masonry by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge								Qty estimated to estimate of work provided with cement concrete
4.1.1	15.2.1	Nominal concrete 1:3:6 or richer mix (for equivalent design mix)	cum	---	---	---	50.00	292.70	2200.00	Inducted to plan
4.1.2	15.2.2	Nominal concrete 1:4:8 or leaner mix (for equivalent design mix)	cum	---	---	---	50.00	550.00	2750.00	
5		SH:- ROAD WORK								
5.1	16.13	Cutting road and making good the same including supply of extra quantities of materials in aggregate, maximum screening, red bahn and labour required								Qty estimated for 100 m road work
5.1.1	16.13.1	Bituminous portion	cum	8.00	1861.80	14893.00	8.00	2447.70	19322.00	
5.1.2	16.13.2	Water bound material	cum	32.00	989.25	22545.00	33.00	1276.00	17111.00	
6.00		SH:- WATER SUPPLY								
6.1	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.								Qty estimated for 100 m
6.1.1	18.12.1	15 mm dia nominal bore	metre	---	---	---	800.00	136.75	31170.00	For 100 m bore pipes with same
6.1.2	18.12.2	20 mm dia nominal bore	metre	---	---	---	1800.00	205.00	37730.00	
6.1.3	18.12.3	25 mm dia nominal bore	metre	2310.00	209.40	46374.00	250.00	257.30	64120.00	
6.1.4	18.12.4	32 mm dia nominal bore	metre	---	---	---	800.00	281.00	22240.00	

S.No.	DSR item	Description of item		Original Estimate			Revised Estimate			Remarks
5.2	18.13	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								
5.2.1	18.13.1	25 to 40 mm nominal bore	each	---	---	---	225.00	267.75	141754.00	
5.3	18.16	Providing and fixing brass stop cock of approved quality								
5.3.1	18.16.1	15 mm nominal bore	each	---	---	---	327.00	263.60	15216.00	
5.3.2	18.16.2	20 mm nominal bore	each	---	---	---	47.00	280.80	11518.80	
5.4	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)								
5.4.1	18.17.1	25 mm nominal bore	each	385.00	372.95	143526.00	20.00	424.35	5577.00	
5.4.2	18.17.2	32 mm nominal bore	each	---	---	---	105.00	501.50	52618.00	
5.5	18.20	Providing and fixing brass female with C.I. mouth cover including boring and tapping the main								
5.5.1	18.20.1	15 mm nominal bore	each	355.00	303.20	73271.00	215.00	245.90	522.4000	
5.5.2	18.20.2	20 mm nominal bore	each	---	---	---	130.00	283.40	2734.00	
5.5.3	18.20.3	25 mm nominal bore	each	---	---	---	70.00	360.00	214.6000	
5.6	18.25	Providing and laying S&S C. standard specials such as lens, bends, elbows, laps etc. (Heavy class).								
5.6.1	18.25.1	Up to 300 mm dia	each	25.00	4502.35	103050.00	50.00	4447.00	202200.00	

S.No.	DSR item	Description of Item		Original Estimate			Revised Estimate			Remarks
6.7	18.31	Designing and fabricating CI sluice valve (with cap) complete with bolts, nuts, rubber insertions etc. (the test pieces if required will be paid separately):								
6.7.1	18.31.1	100 mm diameter								
6.7.1.1	18.31.1.1	Class I	each	---	---	---	21.00	3308.60	63451.00	As returned to the contractor on account of water supply line
6.7.1.2	18.31.1.2	Class II	each	71.00	3408.30	245370.00	---	---	---	
6.7.2	18.31.3	150 mm diameter								
6.7.2.1	18.31.3.1	Class I	each	---	---	---	19.00	4843.60	95025.00	
6.7.2.2	18.31.3.2	Class II	each	39.00	9200.40	202816.00	---	---	---	
6.7.3	18.31.4	200 mm diameter:								
6.7.3.1	18.31.4.1	Class I	each	---	---	---	9.00	9015.65	80541.00	
6.7.3.2	18.31.4.2	Class II	each	13.00	11260.60	158902.00	---	---	---	
6.7.4	18.31.5	250 mm diameter								
6.7.4.1	18.31.5.1	Class I	each	---	---	---	1.00	12156.30	12051.00	
6.8	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve with CI surface box 100 mm 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 20 mm nominal size). 20: necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 10 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.								As estimated on the basis of the requirement at site
6.8.1	18.34.1	With common burnt clay F.P.G (non modular) bricks of class designation 7.5	each	125.00	9377.10	1179916.00	50.00	11672.35	818035.00	

S.No.	DSR item	Description of item		Original Estimate			Revised Estimate			Remarks
6.9	18.38	Manufacturing masonry Chamber 90x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with grained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for 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.								Qty. calculated on the basis of the actual dimensions of work.
6.9.1	18.38.1	With common burnt clay F.P.S (non-modular) bricks of class designation 7.5	each	—	—	—	18.00	5431.13	115771.30	
6.10	18.40	Painting G.I. pipes and fittings with two coats of anti-rustative bituminous paint of approved quality								
6.10.1	18.40.1	15 mm diameter pipe	metre	—	—	—	600.00	5.80	3480.00	Qty. calculated on the basis of the actual length of work.
6.10.2	18.40.2	20 mm diameter pipe	metre	—	—	—	1300.00	6.85	12250.00	
6.10.3	18.40.3	25 mm diameter pipe	metre	—	—	—	170.00	8.70	1459.00	
6.10.4	18.40.4	32 mm diameter pipe	metre	—	—	—	720.00	13.40	9648.00	
6.11	18.41	Flowing and filling sand of grading zone V or coarser grade around the G.I. pipes in external work.								
6.11.1	18.41.1	15 mm diameter pipe	metre	—	—	—	600.00	68.40	39960.00	Qty. calculated on the basis of the actual length of pipe laid in external work.
6.11.2	18.41.2	20 mm diameter pipe	metre	—	—	—	1300.00	67.30	121450.00	
6.11.3	18.41.3	25 mm diameter pipe	metre	—	—	—	170.00	69.05	11538.50	
6.11.4	18.41.4	32 mm diameter pipe	metre	—	—	—	720.00	70.85	51012.00	

S.No.	DSR item	Description of item		Original Estimate			Revised Estimate			Remarks
6.12	18.70	Providing and fixing C.I. ductile ending or valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately)								Qty. provided as per actual requirement of site
6.12.1	18.70.1	100 mm dia	each	---	---	---	9.00	8110.05	72990.00	
6.13	18.70	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket								Qty. provided for 47.102 pipes for which there was no provision in the original estimate
6.13.1	18.70.1	100 mm dia pipes	joint	---	---	---	1055.00	61.00	60170.00	
6.13.2	18.70.2	150 mm dia pipes	joint	---	---	---	950.00	96.15	90340.00	
6.13.3	18.70.3	200 mm dia pipes	joint	---	---	---	350.00	146.00	51100.00	
6.13.4	18.70.4	250 mm dia pipes	joint	---	---	---	35.00	177.25	6204.00	
6.14	18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS 8329								
6.14.1	18.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	---	---	---	574.00	924.05	500607.00	
6.14.2	18.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	---	---	---	5160.00	1336.70	6917372.00	
6.14.3	18.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	---	---	---	1855.00	1540.00	3049900.00	Qty. provided as per hydraulic design as shown in drawing
6.14.4	18.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	---	---	---	170.00	2503.55	425004.00	
6.14.5	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	4310.00	346.00	4077250.00	---	---	---	
6.14.6	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	5005.00	1389.40	6953947.00	---	---	---	
6.14.7	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	2070.00	1895.40	3933416.00	---	---	---	

S.No.	DSR item	Description of Item		Original Estimate		Revised Estimate		Remarks
8.15	18.80	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.						Qty. accepted in disinfected pipes before supply of water
B.15.1	18.80.2	100 mm diameter C.I. pipe	100 mtr.			5740.00	326.65	
B.15.2	18.80.4	150 mm diameter C.I. pipe	100 mtr.			5100.00	1235.40	
B.15.3	18.80.5	200 mm diameter C.I. pipe	100 mtr.			1855.00	1868.50	
B.15.4	18.80.6	250 mm diameter C.I. pipe	100 mtr.			170.00	2387.00	
B.16	18.31	Providing and fixing C.I. fire hydrants (with cap) complete with bolts nuts rubber insertions etc. (the lat pieces if required will be paid separately).						Qty. estimated in hydrographic layout of water supply line
B.16.1	18.31.1	100 mm diameter Class I	each			15.00	3285.75	
Total :-				19477951.00	Total :-	22916554.00		
Add cost index @ 5.37%				1047866.00	Add Cost Index @ 3.81%	873125.00		
Total :-				20525817.00	Total :-	23789679.00		
Add Contingencies @ 3%				615780.00	Add Labour Cess @ 1%	237896.00		
Total :-				21141597.00	Total :-	24027575.00		
Add Labour Cess @ 1%				211415.97	Add VAT @ 4%	961127.00		
Total :-				21353013.00	Total :-	24988702.00		
Add VAT @ 4%				854041.00	Add Service Tax @ 5.80%	1439330.00		
Total :-				22203054.00	Total :-	26428032.00		
					Add Contingencies @ 5%	1321401.60		
					Total :-	27749433.60		
Say Rs. 2,22,05,100/-					Say Rs. 2,72,31,300/-			
 Assistant Engineer (B)-II C.C.C. CPWD, Chandigarh				 Executive Engineer (B) C.C.C. CPWD, Chandigarh				
Revised preliminary estimate amounting to Rs. 2,72,31,300/- (Rupees Two crore seventy two lac thirty one thousand & three hundred only) is hereby submitted to the department for record of revised A/E & Est of complete project.								
 Superintendent Engineer, Chandigarh Central Circle CPWD, Chandigarh.								

- 21.9 To consider and approve the Revised Cost estimate for Replacement of CI/AC water supply lines with centrifugally cast (Spun) iron pipe Class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with justification and same be put up before the next meeting of Building & Works Committee for further consideration.

- 21.10 To consider and approve the Cost estimate for furnishing floor with tiles in the common room, Dining hall, warden Office and MMCA office in the Boys Hostel No. 1-5 and Girls Hostel No. 1 at NITK.

The B&WC deliberated on the matter and resolved that this item be deferred.

- 21.11 To consider and approve the cost estimate for 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 at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the cost estimate for 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 at NIT, Kurukshetra for an amount of Rs.32,54,600/-

- 21.12 To consider and approve the Revised Cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

The B&WC deliberated on the matter and decided that the CPWD will submit realistic cost estimate with justification and the same be put up in next Building & Works Committee meeting for further consideration.

- 21.13 To consider and approve the Cost Estimate for Providing Kitchen Equipments in 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the revised cost estimate of providing equipments for modular kitchen in 600 seater Girls



केन्द्रीय लोक निर्माण विभाग
वरनाल केन्द्रीय मण्डल
एन.डी.आर.आई. कैम्पस वरनाल

संख्या - 20(142)/सो शा.वा.के.मं/2016/2377

दिनांक 10/6/2016

सेवा में,

अधीक्षण अभियंता
चण्डीगढ़ केन्द्रीय परिमण्डल,
के.लो.वि.वि, सैक्टर-9ए,
केन्द्रीय सदन, चण्डीगढ़।

विषय : Replacement of CI/AC water supply lines with centrifugally cast (spun) iron pipe class LA in Residences, Hostel and instructional building at NIT Kurukshetra.

संदर्भ : 21st BWC meeting with NIT authorities on dated 27.05.2016.

During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit the revised detailed estimate based on actual executed quantities. The revised detailed estimate has already been submitted by Chief Engineer CPWD vide his office letter no. 24(8)/स.ई.कु/2015/186 दिनांक 28.10.2015 for Rs. 2,78,28,182/-.

Justification for increase in expenditure is detailed below:-

A/A and E/S for the above work has been conveyed by the client department vide letter No. CC/262/12074 Dt. 14.11.2013.

Now the detailed estimate amounting to Rs. 2,72,82,815.00/- is being submitted which is based on actual execution and anticipated quantities, as the final bill is yet to be submitted by the contractor. The difference in detailed estimated amount and in the A/A & E/S amount is Rs. 52.00 Lac, which is mainly due to the following reason.

1. The length of water supply line in estimate was taken 11385 metre, but as per design requirement 13442 meter water supply line provided. i.e 2057 meter length deviated from the estimated quantity resulting in increase of extra cost of Rs 37.00 Lacs.
2. Also the item of disinfection of water supply line was not taken in the estimate which got executed as per actual requirement at site. It caused an extra amount of Rs. 1.25 Lacs.
3. Also the length of G.I. Pipes for the connections increased from 2310 mtr to 4770 mtr i.e 2460 mtr extra length. It resulted in extra cost of Rs 6.45 Lacs.

4. Items of dismantling CC (Lean or richer mix) and repairing the same was not taken. But the items got executed as per actual requirement at site and resulted in extra cost of Rs. 8.0 Lacs.

Due to all the reasons stated above, the deviation from the A/A & E/S cost occurred, with a increase of approximate Rs 52.7 lacs as stated above.

Therefore it is requested to approve the revised detailed estimate amounting to Rs. 2,72,82,816.00 based on actual anticipated executed quantities for the above said work.

Enclosed:- Calculation sheet of detailed estimate.

प्रतिनिधि

सह-कार्य अधिकारी, पुरुषोत्तम शिल्पक उद्योग-मण्डल, जे.ते.नि.वि, पुरुषोत्तम को अलके पत्र सं. 24(87A.B.30/2016) दिनांक 08.06.2016 के संदर्भ में सूचार्थ प्रेषित।

कार्यपालक अधिकारी
कल्याण पोर्चुय भण्डल
जे.ते.नि.वि, पुरुषोत्तम

कार्यपालक अधिकारी

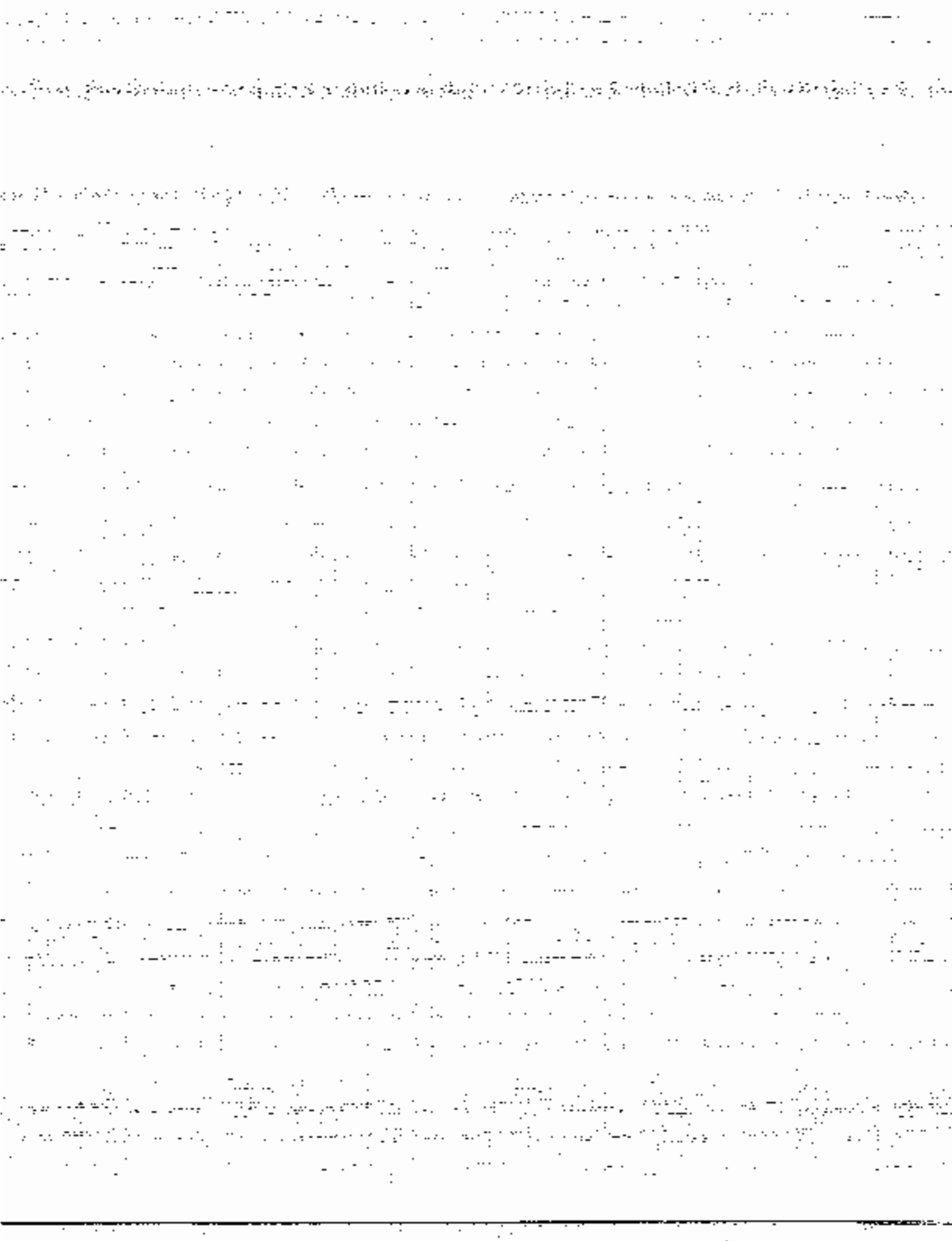
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21/4/2016



Revised Detailed estimate based on Actual execution and final anticipated quantities.

DIV. : Karnal Central Division

Sub-Div. : Kurukshetra Central Sub Division

Replacement of CI/AC water supply line with centrifugally cast (spun) iron pipes class L.A. in the Residences, Hostel & Instructional building at NIT, Kurukshetra.

Sl. No.	Description of Items	Unit	Original Estimate			Revised Estimate		
			Qty	Rate	Amount	Qty	Rate	Amount
	EARTH WORK			DSR-2012			As per actual and DSR-13	
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	All kinds of soil							
1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	11385.00	165.50	1885356.00	14350	155.00	2224250.00
	Sub-total							
	CONCRETE WORK							
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :							
1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	-	-	-	100	455.00	45500.00
1.4	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	-	-	-	75	3672.88	275466.00
	HALF BRICK MASONRY							
2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.							
2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	-	-	-	320	574.70	183904.00
	DISMANTLING AND DEMOLISHING							
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.							
2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Cum	-	-	-	80	806.35	64508.00
2.2	Nominal concrete 1:4:8 or richer mix (i/c equivalent design mix)	Cum	-	-	-	55	497.15	27343.00
	ROAD WORK							

Sl. No.	Description of Items	Unit	Original Estimate			Revised Estimate		
			Qty	Rate	Amount	Qty	Rate	Amount
13	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.							
3.1	bituminous portion	cum	8.00	1861.60	14893.00	8	1830.00	14640.00
3.2	Water bound macadam	cum	33.00	989.25	32645.00	35	970.00	33950.00
3	WATER SUPPLY							
12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.							
2.1	15 mm dia nominal bore	metre	-	-	-	300	120.00	36000.00
2.2	20 mm dia nominal bore	metre	-	-	-	2500	145.00	362500.00
2.3	25 mm dia nominal bore	metre	2310.00	209.40	483714.00	120	238.95	28674.00
2.4	32 mm dia nominal bore	metre	-	-	-	1850	195.00	360750.00
13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the							
1.1	25 to 40 mm nominal bore	each	-	-	-	420	255.00	107100.00
6	Providing and fixing brass stop cock of approved quality :							
6.1	15 mm nominal bore	each	-	-	-	327	199.00	65073.00
6.2	20 mm nominal bore	each	-	-	-	41	265.00	10865.00
17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :							
7.0	15 mm nominal bore.	each	-	-	-	20	250.00	5000.00
7.1	25 mm nominal bore.	each	385.00	372.95	143586.00	10	427.80	4278.00
7.2	32 mm nominal bore.	each	-	-	0.00	105	490.00	51450.00
12	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :							
0.1	15 mm nominal bore	each	385.00	203.30	78271.00	340	195.00	66300.00
0.2	20 mm nominal bore	each	-	-	-	50	240.00	12000.00
0.3	25 mm nominal bore	each	-	-	-	41	315.00	12915.00
25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class) :							
5.1	Up to 300 mm dia	quintal	25.00	4202.35	105059.00	50	6450.00	322500.00
31	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) :							
1.1	100 mm diameter							
1.1.1	Class I	each	-	-	-	21	3060.00	64260.00
1.1.2	Class II	each	71.00	3498.30	248379.00	-	-	-

18.31.4	200 mm diameter	each	19.00	5200.40	202816.00	21	4420.00	940
18.31.4.1	Class I	each	-	-	-	9	8200.00	740
18.31.4.2	Class II	each	15.00	11260.60	168909.00			
18.31.5	250 mm diameter							
18.31.5.1	Class I	each	-	-	-	5	12000.00	1200
18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm 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 20 mm nominal size), if/ 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 :							
18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	125.00	9277.10	1159638.00	55	9300.00	9215
18.36	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), if/ 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 :							
18.36.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	-	-	-	18	5150.00	9270
18.4	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :							
18.40.1	15 mm diameter pipe	metre	-	-	-	300	7.00	2100
18.40.2	20 mm diameter pipe	metre	-	-	-	2500	7.00	17500
18.40.3	25 mm diameter pipe	metre	-	-	-	120	7.90	948
18.40.4	32 mm diameter pipe	metre	-	-	-	1850	14.00	25900

Sl. No.	Description of Items	Unit	Original Estimate			Revised Estimate		
			Qty	Rate	Amount	Qty	Rate	Amount
41	Providing and filling sand of grading zone V or coarser grade, all-round the G.I. pipes in external work :							
1.1	15 mm diameter pipe	metre	-	-	-	300	55.00	16500.00
1.2	20 mm diameter pipe	metre	-	-	-	2500	60.00	150000.00
1.3	25 mm diameter pipe	metre	-	-	-	120	64.05	7686.00
1.4	32 mm diameter pipe	metre	-	-	-	1850	65.00	120250.00
59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :							
9.3	100 mm dia	each	-	-	-	9	7630.00	68670.00
0	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket							
0.1	100 mm dia pipes	Nos	-	-	-	1150	59.25	68138.00
0.2	150 mm dia pipes	Nos	-	-	-	950	91.10	86545.00
0.3	200 mm dia pipes	Nos	-	-	-	350	139.30	48755.00
0.4	250 mm dia pipes	Nos	-	-	-	35	168.90	5912.00
2	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :							
1	100 mm dia Ductile Iron Class K-7 pipes	metre	-	-	-	6210	1069.00	6638490.00
2	150 mm dia Ductile Iron Class K-7 pipes	metre	-	-	-	5160	1568.00	8090880.00
3	200 mm dia Ductile Iron Class K-7 pipes	metre	-	-	-	1900	1896.00	3602400.00
4	250 mm dia Ductile Iron Class K-7 pipes	metre	-	-	-	172	2512.00	432064.00
5	100 mm dia Ductile Iron Class K-9 pipes	metre	4310.00	946.00	4077260.00	-	-	-
6	150 mm dia Ductile Iron Class K-9 pipes	metre	5005.00	1389.40	6953947.00	-	-	-
7	200 mm dia Ductile Iron Class K-9 pipes	metre	2070.00	1895.40	3923478.00	-	-	-
	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the							
	100 mm diameter C.I. pipe	100 mtr	-	-	-	6210	680.00	42228.00
	150 mm diameter C.I. pipe	100 mtr	-	-	-	5160	1030.00	53148.00
	200 mm diameter C.I. pipe	100 mtr	-	-	-	1900	1450.00	27550.00
	250 mm diameter C.I. pipe	100 mtr	-	-	-	172	1770.00	3044.00
	Providing and fixing C.I. Fire Hydrants complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):							
	100 mm diameter (Class I)	each	-	-	-			

Sl. No.	Description of Items	Unit	Original Estimate			Revised Estimate		
			Qty	Rate	Amount	Qty	Rate	Amount
	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), including grouting the joints with white cement and matching pigments etc., complete.							
	Size of Tile 600x600 mm	Sqm				19.17	1702.35	26887.05
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :							
	15 mm nominal bore	Nos				39.06	134.64	6079.30
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :							
	20 mm nominal bore	Nos				694.00	178.85	124122.00
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :							
	25 mm nominal bore	Nos				41.00	180.45	7398.00
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :							
	32 mm nominal bore	Nos				84.00	231.14	19417.00
	Providing and fixing gun metal gate valve with C.I. wheel of approved							
	20 mm nominal bore	Nos				320.00	400.00	128000.00
	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 up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum				7.09	5572.25	39453.00
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.							
	Thermo-Mechanically treated bars	Kg				631.52	66.50	41996.00

Sl. No.	Description of Items	Unit	Original Estimate			Revised Estimate		
			Qty	Rate	Amount	Qty	Rate	Amount
	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :							
	20 mm nominal bore	Nos				22.00	355.20	7814.40
	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :							
	25 mm nominal bore	Nos				139.00	355.20	49372.80
	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :							
	40 mm nominal bore	Nos				16.00	422.55	6760.80
	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :							
	50 mm nominal bore	Nos				21.00	619.75	12914.25
	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :							
	80 mm nominal bore	Nos				7.00	956.00	6692.00
	Making connection of G.I. distribution branch with G.I. main of following sizes by							
	50 to 80 mm nominal bore	Nos				25.00	729.75	18243.75
	TOTAL				19477951.00			25841311.00

Add cost Index @ 5.37%

1045966.00

Add Contingencies @ 3%

775279.00

Total

20523917.00

Total

26611650.00

Add Contingencies @ 3%

615718.00

Add Labour Cess @ 1%

266116.00

Total

21139635.00

Total

26882716.00

Add Labour Cess @ 1%

211396.00

For 100 labour

extralation

400000.00

Total

21351031.00

Total

27282716.00

Add Vat @ 4%

854041.00

TOTAL

22205072.00

Say

22205072.00

Total cost after all liabilities 2,22,82,716.00

सहायक अभियंता (दो.)

सहायक अभियंता

सहायक अभियंता

मो.लो.वि.दि. मन्सूरगढ़।

- 1 -

Minutes of the Meeting of External Technical Committee held on 13.08.2016 at 11.00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra.

- | | | |
|----|---|----------|
| 1. | Prof. Anandendra Kumar
Prof. Civil Engineering Deptt.
H. R. D. Vardhola | Chairman |
| 2. | Mr. Ajay Sharma
Institute Engineer,
H. R. D. Vardhola | Member |
| 3. | Mr. G. K. Langa
Executive Engineer (District)
H.T. Delhi | Member |

The Committee decided as under:

1. To discuss ~~the~~ the Revised Cost estimate with detailed reasons for increase in cost for various re-carpeting of roads
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7&8.
 - c) Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.
 - d) From NIT Gate (towards RUK Gate) to Apollo Canteen, chowk via NIT Chowk at NITK.

Since approval from the competent authority has already been taken in this case after looking into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for (a) and (c) Rs. 45,09,496/- and for (b) Rs. 28,04,878/-

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kirti road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

As the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,723/- (based on revised scope of work projected by CPWD)

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bharer barrack comprising of 2 Blocks to accommodate 96 learners at NIT Kurukshetra

As the work has already been completed the expenditure sanction may be granted by the competent authority. The Technical Expert Committee is aware that the project has already been sanctioned and is in order.

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at NIT, Kurukshetra

Therefore the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 2,95,45,840/-

4. To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at NIT, Kurukshetra

As the work has already been completed, no cost sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been received by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 1,53,39,000/-

5. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 300 Seater Multi-purpose boys hostel including 100 seats for foreign students, research scholars and married PG Students, (Multi-storied framed structure) (Ground +5) at NIT, Kurukshetra

The Technical Expert Committee observed that this work is in progress. The revised estimate prepared on the basis of actual scope of work would as per the estimate amounting to Rs. 53,16,79,100/- proposed by CPWD is recommended to the approval of the competent authority.

6. To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi Storied Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As this work has already been completed, no cost sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been received by the competent authority of the NIT, Kurukshetra. Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 43,28,71,400/-

7. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of CIAC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra

The Technical Expert Committee has been constituted and sanctioned by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work has already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,300/-.

8. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

Item No. 8 does not come in the purview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction granted because CPWD took contract when based on estimates given by NIT Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedures taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

(Veerendra Kumar)

(Ajay Sharma)

(G. K. Taneja)

Director

24/6/16

The recommendations of the Committee will be placed at the next B.M. Mtg. for consideration and approval.
24/6/16

The administrative approval and expenditure sanction for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute was conveyed to CPWD for an amount of Rs. 112.51 lacs vide letter no. 1125028/12.5195 dated 17.25.07.2014. Accordingly, the 1st instalment i.e. 16.5% of the estimated cost of Rs. 232.87 lacs as per MoU has already been transferred to CPWD but till date work could not be started by CPWD because of non including the Civil Works in the original preliminary estimates. Subsequently the Superintending Engineer (Civil), CPWD Chandigarh has submitted cost estimate of vide letter no. CCC-23/4515/ NIT-3/2015/381 dated 06.02.2015 for an amount of Rs. 1,12,89,400/- for Civil works i.e. provision for machine room and the size of lift block is 4390x4590mm with provision of corridor of 1.5m length to connect the existing building. Later on the Superintending Engineer (Elect), CPWD, Chandigarh submitted revised cost estimate after including the provision of machine rooms as explained above for an amount of Rs. 3,72,60,945/- vide letter no. 23(130)CCEC/2016/211 dated 03.07.2016. The same was put up before the 21st Building & Works Committee Meeting held on 27.5.2016 for approval of revised Administrative approval and expenditure sanction. Superintending Engineer (Electrical) also apprised the house that the work may be started after getting the revised Administrative Approval & Expenditure Sanction from the competent authority of the Institute. After detailed discussion and deliberations, the Building & Works Committee decided as under

The B&WC deliberated on the matter and decided that the CPWD will submit realistic cost estimate with justification and the same be put up in next Building & Works Committee meeting for further consideration.

Accordingly the matter was put up before the External Technical Committee and Executive Engineer (Electrical) CPWD informed the External Technical Expert Committee that the revised cost estimate for the Provision of lifts for persons with disabilities (PWD) at various locations in the Institute including Civil works i.e. provision for machine room and the size of lift block is 4390x4590mm

been submitted for an amount of Rs. 3,72,60,943/- may be considered as realistic cost estimate. The Executive Engineer (Electrical) CPWD has also intimated that the work may only be started after getting the revised administrative approval for an amount of Rs. 3,72,60,943/- from the competent authority of the Institute. After detailed discussion and deliberations, the Executive Engineer (Electrical) CPWD has decided as under:

Technical Expert Committee observed that this item does not come in the preview of the Committee and and NIT authority may take appropriate action. Further the Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction primarily because CPWD took contract action based on estimates given by NIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.

In view of the position explained above by the CPWD officers, the Building & Works Committee may consider and approve the realistic revised cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations including Civil works i.e. provision for machine room and the size of lift block is 4390x4590mm with provision of corridor of 1.5m length to connect the existing building in the Institute with an amount of Rs. 3,72,60,943/-

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

No. CC/1508/ 15/5585

Date: 17.07.2014
25

To

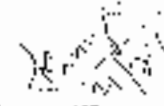
Executive Engineer (Civil),
CPWD Karnal Central Division,
24A, Subhash Colony,
Karnal

Subject: - Administrative Approval & Expenditure Sanction for the Provision of lifts for persons with disabilities (PwD) at various locations in the Institute.

Reference Memo dated 20-12-2012 & approval of the Hon'ble Director on dated 15-07-2014

The administrative approval and expenditure sanction is hereby conveyed for the execution of the following work with the estimated amount as under:

Sr. No.	Name of work	Amount REC. (Rs. in Lacs)
1	Provision of lifts for persons with disabilities (PwD) at various locations in the Institute	Rs. 262.87 (Rupees Two crore sixty two eighty seven thousand only)


Dean (Estate)
For Director

CC:

1. SS to Director for the kind information of the Hon'ble Director.
2. Dear (P&I) for information, please.
3. Chief Engineer (NZ-I), Chandigarh CPWD, Karama Sadak, Sector-9, Chandigarh
4. Superintending Engineer (Elect.) Chandigarh, Central Electrical Circle, Karama Sadak, Sector-9-A, Chandigarh.
5. Executive Engineer (Elect.) CPWD, Karnal Central Electrical Division 22-A, Subhash Colony, Karnal.
6. Registrar, NIT, Kurukshetra for information.
7. Prof. I/C (S&C) for information.
8. Prof. I/C (E & C) for information.
9. Prof. I/C (H&L)
10. Assistant Engineer (Civil)
11. Junior Engineer (Elect.)
12. Assistant Engineer (Civil), CPWD

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
चण्डीगढ़ केन्द्रीय परिसर

केन्द्रीय सदन सैक्टर 9-ए, चण्डीगढ़

संख्या : च के परि / 23(4515)/नि 3/2015/ 30

दिनांक : 12/12/15

सेवा में,

अधीक्षण अभियंता (च.),
चण्डीगढ़ केन्द्रीय सैक्टर परिसर,
के.लो.नि.वि., चण्डीगढ़।

विषय : Provision of Lifts for persons with disabilities (PWD) at various locations in NIT, Kurukshetra. SH:- Construction of lift block with pit and machine room for G+1 and G+2 buildings.

A preliminary estimate amounting to Rs. 2,62,87,188/- for the work namely "Provision of lifts at various locations in NIT, Kurukshetra" was sent to the client department by your office vide letter No. CCEC/23(130/2012-13/16 dated 05-11-2012 for accord of A/A & E/S by competent authority in which provision for civil work amounting to Rs. 34,62,060/- existed. The A/A & E/S amounting to Rs. 262.87 lacs was received from the client department vide their letter NO. CC/3508/112/5385 dated 17/25-07-2014. Since the provision of machine rooms and connecting corridors for lifts was not made in the original preliminary estimate, the necessity of revised preliminary estimate arose the requisition for which has been made in the Building Works Committee meeting held on 26-01-2015 at New Delhi. Hence the revised preliminary estimate for civil work amounting to Rs. 1,12,89,400/- has been prepared and is enclosed herewith. You are requested to send the revised preliminary estimate to the client department after incorporating electrical provisions for the work for accord of revised A/A & E/S by the competent authority.

संलग्न :- उपरोक्त।

Dear (Estimate)

प्रतिनिधि:-

12/12/15

AE (CCEC)
13/12/15

The Director, NIT, Kurukshetra for kind information alongwith copy of revised preliminary estimate for civil work. The work shall be taken up only after receipt of revised A/A & E/S / assurance of funds from your side. Encl: As above.

2. The Executive Engineer, Karnal Central Division, CPWD, Karnal for information w.r.t. his office letter No. 313 dated 21-01-2015 alongwith copy of revised preliminary estimate. Encl: As above.

अधीक्षण अभियंता,

चण्डीगढ़ केन्द्रीय परिसर,
के.लो.नि.वि., चण्डीगढ़।

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE HARYANA

DIVISION KARNAL CENTRAL

BRANCH B&R

Name of work: - Provision of Lift for passage of staff in CPWD at various locations in NIT, Kurukshetra. SII:- Construction of Lift block with pit and machine room for G-1 and G-2 buildings.

Major Head.

Minor Head.

Detailed Head.

This Revised preliminary estimate framed by Mr. Varun Kumar, Executive Engineer, Karnal Central Divn. CPWD, Karnal and further processed by Mr. R.K. Gandhi, Executive Engineer, Chandigarh Central Circle, CPWD, Chandigarh of the probable cost of Rs. 1,12,89,400/- including contingencies.

REPORT

History: This Revised preliminary estimate amounting to Rs. 1,12,89,400/- including contingencies has been framed to cover the probable cost of the above mentioned work for accord of revised A/S & E/S by the competent authority. Originally, an estimate amounting to Rs.2,62,87,188/- was submitted to the parent department vide Superintending Engineer (Elect.), Chandigarh Central Elect. Circle, CPWD, Chandigarh vide their letter No. CCE/C/23(130)/2012-13/16 dated 15.11.2012. Total A/A & E/S amounting to Rs.262.87 Lacs has already been received from the parent department vide their letter No. CC/3508/112/5395 dated 17.25.07.2014 for Civil & Elect. work in which provision amounting to Rs. 34,62,100/- exists for Civil work. The reconsideration for the revised estimate has been made in the Building Works Committee Meeting held on 06.01.2015 at New Delhi. The revision is required due to the reason that in the original estimate, there is no provision for machine room and size adopted is only 2400 x 1900mm and due to machine room, one additional floor is required for maintenance and cover for which no provision exists in the original estimate. The revised estimate has been prepared including provision for machine room and the size of lift block is 4390X4395mm with provision of corridor of 1.5m length to connect the existing building. Hence the necessity of this Revised Preliminary Estimate.

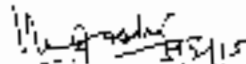
Design & Scope: Estimate has been prepared based on drawing submitted by EE (Elect.), Karnal Central Elect. Division, CPWD, Karnal vide their letter No. 21(33)KCE/2014-15/33 dt. 05.01.2015.

Following provisions have been made in this estimate:

RCC framed structure for providing lifts, machine rooms and connecting corridor at following locations:-

1. Admn. Block.
2. Elect. Engg. Deptt.
3. Lecture Hall Complex
4. MBA/MCA Block
5. New Workshop
6. Library
7. Computer Engineering
8. CCN Building

Specifications: CPWD specification 2009 Vol-I to II, with up to date correction slips.
 Rate: DSR- 2014 with up to date correction slips.
 Amount: Rs. 1,12,89,400/- (Rs. 3% contingencies.
 W.C Est: Shall be met out of contingencies.
 Cont: shall be arranged by the contractor.
 Land: Available.
 Method: By contract after call of tenders.
 Time allowed: Pre-construction activity:- 3 months.
 For execution:- 6 months
 Total:- 9 months


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


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



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



आधीक्षण

अधीक्षण अभियन्ता (ई०)

भारतीय केंद्रीय वैद्युत परिषद्,

के.सो.नि.वि. सेक्टर-९(ए), चण्डीगढ़-१६००१९

Office of the:

Superintending Engineer (E),

Chandigarh Central Elect. Circle,

CPWD, Sector-9(A), Chandigarh-160 019

Email:- seecan.chd.cpwd@nic.in

सं०.23(130)/च०के०नि०वि०/2018/211

दिनांक - 2-2-16

To

The Director, ^{Chandigarh}
NIT, Kurukshetra,
(Haryana).

2018/211 (Estimate)

PII (ECC), PII (ECC)

2018/211

2018/211

Sub: Preliminary Estimate for the work:- Provision of lifts for persons with disabilities (PWD) at various locations in NIT Kurukshetra.

With reference to above mentioned letter, enclosed please find herewith revised preliminary estimate amounting to Rs.372,60,943/- for the aforesaid work for obtaining Administrative Approval and Expenditure Sanction from the competent authority.

The necessity of framing this revised preliminary estimate has been fully explained in the history sheet of the revised preliminary estimate.

The copy of the revised preliminary estimate duly approved may be sent to this office for further necessary action.

End: As stated

अधीक्षण अभियन्ता (ई०)
भारतीय केंद्रीय वैद्युत परिषद्
के.सो.नि.वि., चण्डीगढ़।

Copy to:

1. The Chief Engineer (NZ-II), CPWD, Kendrya Sadan, Sector 9-A, Chandigarh for information please.
2. The Executive Engineer (E), Kernal Central Electrical Division, CPWD, Karnal with a copy of revised preliminary estimate

अधीक्षण अभियन्ता (ई०)



GOVT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana
Branch: E&M

Circle: CCEC
Division: KCED

N/W:- Provision of lifts for persons with disabilities (PWD) at various locations in IIT Kurukshetra

This revised preliminary estimate has been framed by E- S.S. Rana, Executive Engineer (Electrical), Karnal Central Electrical Division, CPWD, Karnal and processed in the Office of Superintending Engineer(E), Chandigarh Central Electrical Circle, CPWD, Chandigarh for the probable cost of Rs 3,72,60,943/- including 3% contingencies.

REPORT

History:- This revised preliminary estimate amounting to Rs.3,72,60,943/- including 3% contingencies for the above cited work has been prepared for obtaining Administrative Approval & Expenditure Sanction from the competent authority. Originally, an estimate amounting to Rs.2,62,87,188/- was submitted to the client vide office letter No.CCEC/23(100)/2012-13/16 dated 05.11.2012. The A/A & E/S amounting to Rs.262.87 Lacs has already been received from the client department vide letter Prop.CC/3505/112/5385 dated 17/25.07.2014 for civil and electrical work in which provision amounting to Rs.34,62,100/- exists for civil work. As intimated by SE(Civil), CC, Chandigarh vide letter No.CCC/23(4515)/W-3/2015/381 dated 5.2.2015 as in the original preliminary estimate, the provision for C/c machine rooms and connecting corridors for lifts was not kept. Hence, the revised preliminary estimate has been prepared for accord of revised A/A & E/S of the competent authority. Accordingly, second time revised preliminary estimate amounting to Rs.3,41,14,488/- was submitted to client vide No.23(100)/CCEC/2015/218 dated 18.02.2015. While sending the revised P.E. provision of service tax, labour cess, VAT, PEF & ESI was not taken as that time PEF, ESI was not applicable for Govt. work. Now as service tax, labor cess, VAT, PEF & ESI is applicable for Govt. work, Hence, revised preliminary estimate is prepared and submitted to client department for obtaining revised A/A & E/S from the competent authority.

Design & Scope:- Provision of energy efficient and jerk free i.e. smooth drive, lift has been made in the estimate. Since, the height of the building is three storied. Hence, lift of 1 Mtr per second speed as per CPWD norms has been proposed in the estimate. Necessary provision of RCC framed structure for providing lifts, machine rooms and connecting corridors has also been made.

Provision for installation of lifts has been kept for following locations:-

1. Admn. Block.
2. Electrical Engineering Department.
3. Lecture Hall Complex.
4. MBA/MCA Block.
5. NEW Workshop
6. Library
7. Computer Engineering.
8. CCN Building.

Method: Through call of E-Bids.
Rates: PAR 2012 and DSR 2014 (Civil)
Time: 12 Months
Cost: Rs.3,72,60,943/- including 3% contingencies

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

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

Revised Preliminary Estimate

WV: Provision of lifts for persons with disabilities (PWD) at various locations in NIT, Kurukshetra (Haryana).

S.No.	Description	Original Estimate				Revised Estimate				Remarks
		Qty.	Unit	Rate	Amount	Qty.	Unit	Rate	Amount	
	LIFT									
1	S.I.T.C. of 1m/sec 13 Passenger lift VVVF Microprocessor control stainless steel doors, automatic power operated doors, automatic rescue device with standard controls and operating device (for a travel of ground floor + 2 floors) disabled friendly as required.	8	Jobs	1620000.00	12960000.00	8	Job	2200000.00	17600000.00	PAR 2012
	Add Cost Index @			57%	7387200					
2	Provision of earthing, LT Panel, LT Cable etc as required.	8	Jobs	200000.00	1600000.00	8	Job	200000.00	1600000.00	
					21947200.00				19200000.00	
	Add contingencies			3%	658416.00					
	Add Labour Cess			1%	219472.00					
	Total				22825088.00					
3	As intimated by EE(C), KCD, Karnal letter No.20(142)/KCD/2012/2805 dated 17.09.2012 for lifts at 8 locations.	1	Job	3462100.00	3462100.00	1	Job	11289400.00	11289400	As intimated by SE(Civil), CCC, Chandigarh vide letter No.CCC/23(4515)/W.3/2015/381 dated 06.02.2015 that the provision of Machine Rooms and connecting corridors for lifts was not made in original P.E. Hence, revised P.E. for civil work has been prepared (copy enclosed).
	Grand Total								30489400.00	
	Add HWCT							5.25%	1600693.50	
	Add Labour Cess							1.00%	304894.00	
	Add Service Tax							5.90%	1798874.60	
	Add EPF & ESI							6.50%	1981811.00	
	Total								36175673.10	
	Add contingencies							3.00%	1085270.193	
									37260943.29	
	Say Rs.								37260943.00	

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

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

- 21.9 To consider and approve the Revised Cost estimate for Replacement of CHAC water supply lines with centrifugally cast (Spun) iron pipe Class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.

The B&WC deliberated on the matter and decided that realistic cost be submitted by the CPWD with justification and same be put up before the next meeting of Building & Works Committee for further consideration.

- 21.10 To consider and approve the Cost estimate for furnishing floor with tiles in the common room, Dining hall, warden Office and MMCA office in the Boys Hostel No. 1-6 and Girls Hostel No. 1 at NITK

The B&WC deliberated on the matter and resolved that this item be deferred.

- 21.11 To consider and approve the cost estimate for 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 at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the cost estimate for 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 at NIT, Kurukshetra for an amount of Rs 32,54,000/-.

- 21.12 To consider and approve the Revised Cost estimate for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

The B&WC deliberated on the matter and decided that the CPWD will submit realistic cost estimate with justification and the same be put up at next Building & Works Committee meeting for further consideration.

- 21.13 To consider and approve the Cost Estimate for Providing Kitchen Equipments in 600 seater Girls Hostel (Multi-storeyed) RCC framed structure (Ground +5) at NIT, Kurukshetra.

The B&WC deliberated on the matter and approved the revised cost estimate of providing equipments for modular kitchen in 600 seater Girls



केन्द्रीय लोक निर्माण विभाग
करनाल केन्द्रीय मण्डल
एन.डी.आर.आई. कैम्पस करनाल

संख्या- 20(142)/थो शा./क के सं/2016/2279

दिनांक 3/6/16

सेवा में,

Dean (Estate),
NIT, Kurukshetra

विषय : Provision of Lift for persons with disabilities (PWD) at various location in NIT Kurukshetra. SH:- Construction of lift block with pit and machine room for G+1 and G+2 buildings.

संदर्भ : 21st BWC meeting with NIT authorities on dated 27.05.2016.

-During the 21st BWC meeting held on 27.05.2016 with NIT authorities, it was decided to submit detailed justification and detailed revised cost Estimates of the above said work for which revised Preliminary Estimate has already been submitted by the CPWD.

Justification for this work is as detailed below:-

The original Preliminary Estimate was submitted by the office of the SE (Elect.) vide his office letter 23(130)/2012-13/16 dated 05.11.2012 for Rs. 262.87 lacs for the above mentioned work with provision of Rs. 34,62,100/- for Civil work. Your office has conveyed vide letter No. CC/3508/112/5385 dated 17/25.07.2014 the A/A & E/S of Rs.262.67 Lacs. This preliminary estimate was revised on the requisition of the NIT authorities during 20th BWC meeting held on dated 06.01.2015.

The detailed justification for revision of original preliminary estimate is as under:-

In the original preliminary estimate, there was no provision of machine room and size adopted for lift well was 2000x1900 mm. EE Electrical Karnal Central Elect. Division vide their office letter no. 20(38)/KCED/Karnal/2014-15/33 dated 05.01.2015 (copy enclosed) written a letter to submit the revised estimate for the Civil portion giving sizes of the lift pit, lift shaft and machine room for 13 passenger lift having speed 1 mtr per second. Accordingly, detailed revised preliminary estimate based on drawings and specification supplied by EE Elect. vide their above mentioned letter was prepared and submitted to your office vide this office letter no 24(08)/KCSO/2015/12 dated 20.01.2015 for Rs. 1,10,80,853/- (Civil Component) which was further

following provisions have been taken.

1. Construction of lift well of size 2500 mm(width) x 1900mm.(depth) having entrance door width 900mm x 2150mm height (minimum).
2. Construction of lift pit with 1500mm (depth).
3. Machine room of size 3500mm (width) x 3900mm (Depth) x 2550mm (height).

4. Construction of Overhead of lift with height 4250mm. l
In addition to this, connecting corridors to connect the purposed Lift shaft with existing buildings at various floors for G+ 1 and G+2 buildings are also taken in this estimate. Provision for these was not taken in Civil provision taken in the Preliminary Estimate.

Hence this detailed explanation is submitted for the Civil portion of the above said work.

संलग्न :- 1. EE (Elect.) letter no. . 20(38)/KCED/Karnal/2014-15/33 dated

05.01.2015.

2. SE, CCC letter no. च.के.परि./23(4515)नि.03 /170 दिनांक 19-01-2015.

कार्यपालक अभियंता
करनाल केन्द्रीय मण्डल
के.के.लो.नि.वि, करनाल
सेक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़

प्रतिलिपि :-

1. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय परिमण्डल, के.लो.नि.वि, सेक्टर-9ए, केन्द्रीय को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. अधीक्षण अभियंता (विद्युत), चण्डीगढ़ केन्द्रीय विद्युत परिमण्डल, के.लो.नि.वि, करनाल को सूचनार्थ सदन, चण्डीगढ़ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
3. कार्यपालक अभियंता (विद्युत), करनाल केन्द्रीय विद्युत मण्डल, के.लो.नि.वि, सेक्टर-9ए, केन्द्रीय सदन, चण्डीगढ़ को सूचनार्थ एवं आवश्यक कार्य से संबंधित संशोधित प्राक्कलन हेतु एवं इस आग्रह के साथ प्रेषित कि वे विद्युत कार्य को उनके पास Justification सीधे ग्राहक विभाग को प्रेषित करें।
4. सहायक अभियंता, कुठक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुठक्षेत्र को उनके पास 24(38)/A.E.K/2016/141 दिनांक 03.06.2016 के संदर्भ में सूचनार्थ प्रेषित।

कार्यपालक अभियंता

Minutes of the Meeting of External Technical Committee held on 12.06.2017 at 11.00 am in the Board Room of Golden Jubilee Administrative Building at NIT, Kurukshetra.

The following were present:

- | | | |
|---|--|----------|
| 1 | Prof. Veerendra Kumar
Prof. Civil Engineering Deptt.
IIT (BHU), Varanasi | Chairman |
| 2 | Sh. Ajay Sharma
Institute Engineer,
IIT, Roorkee | Member |
| 3 | Sh. G.K. Tanuja
Executive Engineer (Electrical)
IIT, Delhi | Member |

The Committee decided as under:

1. To discuss ~~the~~ the Revised Cost estimate with detailed reason for increase in cost for various re-carpeting of roads
 - a) from main approach road to Guest House and around Guest House
 - b) From Apollo Canteen to NIT Gate via Mega Hostel, Hostel No. 7 & 8.
 - c) Apollo Canteen Chowk to Y-shape road via Open Air Theatre at T, Kurukshetra.
 - d) from NIT Gate (towards KUK Gate) to Apollo Canteen Chowk & NIT Chowk at IITK

As approval from the competent authority has already been taken in case (a) & (b) looking into the financial approval, the Technical Expert Committee considered and approved the revised cost estimate for a+b+c) Rs. 45,89,409/- and for (d) Rs. 28,04,810/-.

2. To discuss the Revised Cost estimate with detailed reasons for increase in cost for Widening of Institute road from Kirmich road gate to Hostel No. 4 (approx. length of 400 meters) at NIT, Kurukshetra

It is noted that the administrative approval for execution of work as well as financial sanction has been granted by the competent authority. The Technical Expert Committee considered and approved the revised cost estimate of Rs. 46,76,720/- (based on revised scope of work projected by CPWD).

3. To discuss the Revised Cost estimate with detailed reasons for increase in cost for the work of construction of 3 Storey bearer barrack comprising of 2 Blocks to accommodate 96 bearers at NIT, Kurukshetra

As the work has already been completed the ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the percentage highlighted for increase in cost is in order

Moreover, the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the expert technical committee recommends the approval of revised cost estimate amounting to Rs. 7,96,48,549/-.

- 4 To discuss the Revised Cost estimate with detailed reasons for increase in cost for provision of two nos. Institute Main Gate at -NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be given by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra.

Therefore the expert committee recommends the approval of revised cost estimate amounting to Rs. 7,96,48,549/-.

- 5 To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 100 seater Multi-purpose boys hostel including 100 suits for faculty students, research scholars and married PG Students. (Multi-storied framed structure) (Ground +5) at NIT, Kurukshetra.

The Technical Expert Committee observe that this work is in progress. The revised estimate prepared on the basis of actual scope of work as well as revised cost estimate amounting to Rs. 50,65,79,100/- projected by CPWD is recommended for the approval of the competent authority.

- 6 To discuss the Revised Cost estimate with detailed reasons for increase in cost for construction of 600 seater Girls Hostel (Multi-Storied Framed Structure, Ground Floor+5) at NIT, Kurukshetra.

As the work has already been completed, ex post facto sanction may be granted by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 63,79,39,441/-.

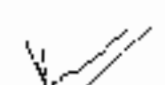
- 7 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Replacement of C/WAC water supply lines with centrifugally cast (Spun) iron pipe class LA in Residences, Hostels and Instructional building at NIT, Kurukshetra.

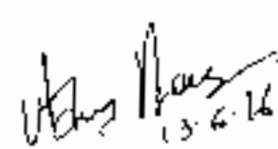
As the work has already been sanctioned & past work has been completed by the competent authority. The Technical Expert Committee observed that the justification highlighted for increase in cost is in order. Moreover the administrative approval to carry out this work had already been accorded by the competent authority of the NIT, Kurukshetra. Therefore the Technical Expert Committee recommends the approval of revised cost estimate amounting to Rs. 2,72,31,300/-.

- 8 To discuss the Revised Cost estimate with detailed reasons for increase in cost for Provision of lifts for persons with disabilities (PWD) at various locations in the Institute.

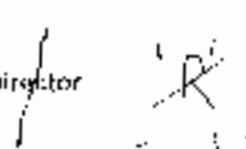
Item No. 8 does not come in the preview of the Technical Expert Committee and NIT authority may take appropriate action.

The Technical Expert Committee noted that most of the sanctions have resulted in cost escalation beyond 10% of the sanction granted because CPWD took sanction order based on estimates given by NIT, Kurukshetra. The Technical Expert Committee advises that CPWD should prepare their own estimates as per their works procedure, taking all aspects of scope of work and statutory provisions so that the estimates are correctly made.


(Veerendra Kumar)


(Ajay Sharma)


(G.K. Taneja)

Director 
22/6/16

The recommendations of the Committee may be placed in the agenda for the next meeting of the committee.
22/6/16
- 186 -
The recommendations of the Committee may be placed in the agenda for the next meeting of the committee.