



**AGENDA FOR 17TH
MEETING OF BUILDING &
WORKS COMMITTEE
JUNE 27, 2013**



**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

AGENDA FOR 17TH MEETING OF BUILDING & WORKS COMMITTEE

**VENUE : BOARD ROOM
GOLDEN JUBLIEE ADMINSTRATIVE BUILDING
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

DAY : THURSDAY

DATE : 27.06.2013

TIME : 11:30 AM

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

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CONSTITUTION OF BUILDING AND WORKS COMMITTEE

- | | | |
|-----|---|------------------|
| 1. | Prof. Anand Mohan
Director,
National Institute of Technology,
Kurukshetra | Chairman |
| 2. | Nominee of the Central Government
On the B & WC of the Institute,
(to be nominated by the MHRD)
Through
Sh. Rajesh Singh
Director (NITs),
Deptt. of Higher Education,
M.H.R.D., Shastri Bhawan,
New Delhi-110001 | Member |
| 3. | Nominee of the Board
Prof. S K Sharma
Professor, Mechanical Engg. Deptt.
National Institute of Technology,
Kurukshetra | Member |
| 4 | Prof. V.K. Arora
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 5. | Er. Iqbal Singh,
Executive Engineer (Civil),
CPWD, House No. 469, Sector-5,
Urban Estate, Karnal | Member |
| 6. | Er. Surender Singh,
Deputy Director (General), P&S,
CPWD, Nirman Bhawan,
New Delhi | Member |
| 7. | Prof. K.K. Singh
Dean (Estate)
National Institute of Technology,
Kurukshetra | Special Invitee |
| 8. | Prof. Ashwani Jain
Prof. in-charge (Estate & Construction),
National Institute of Technology,
Kurukshetra | Special Invitee |
| 9. | Dr. Ashwani Kumar
Prof- in- Charge (Elect. Mtc)
National Institute of Technology,
Kurukshetra | Special Invitee |
| 10. | Er. A.L. Kamboj,
Executive Engineer (Construction cell)
National Institute of Technology,
Kurukshetra | Special Invitee |
| 11. | Er. S.N. Kaushik,
Assistant Engineer (Civil)
National Institute of Technology,
Kurukshetra | Special Invitee |
| 12. | Sh. G. R. Samanthray
Registrar-in-Charge
National Institute of Technology,
Kurukshetra | Member-Secretary |

Item No.17.1

**To confirm the minutes of 16th meeting of the
Building & Works Committee held on 19.11.2012**

The minutes of 16th meeting of Building & Works Committee held on 19.11.2012 were circulated amongst the members vide letter No.NIT/16th BWC/8603 dated 19.12.2012. No comments were received from any member. The minutes are enclosed as Annexure- 1 from pages 01 to 08.

The minutes may be confirmed.

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

Minutes of the 16th meeting of the Building & Works Committee, National Institute of Technology, Kurukshetra held on 19th November, 2012 at 11.30 AM in the Board Room of Golden Jubilee Administrative Building of the Institute.

The following were present:

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|----|---|-----------------|
| 1. | Prof. Anand Mohan
Director,
National Institute of Technology
Kurukshetra | Chairman |
| 2. | Prof. V.K. Arora
Dean (Planning & Development)
National Institute of Technology,
Kurukshetra | Member |
| 3. | Er. Surendar Singh
Superintending Engineer (Elect.),
Chandigarh Electrical Central Circle, CPWD,
Chandigarh. | Member |
| 4. | Er. Iqbal Singh
Executive Engineering (Civil)
Karnal Central Division, CPWD,
Karnal | Member |
| 5. | Prof. K.K. Singh
Dean (Estate),
National Institute of Technology,
Kurukshetra | Special Invitee |
| 7. | Prof. Ashwani Jain
Prof. In-charge (Estate & Construction),
National Institute of Technology,
Kurukshetra. | Special Invitee |
| 8. | Dr. Ashwani Kumar
Prof. In-charge (Elect. Mtc.),
National Institute of Technology,
Kurukshetra. | Special Invitee |

- | | | |
|-----|---|------------------|
| 9. | Er. A.L. Kamboj
Executive Engineer (Construction Cell),
National Institute of Technology,
Kurukshetra. | Special Invitee |
| 10. | Er. S.N. Kaushik
Asstt. Engineer (Civil)
National Institute of Technology,
Kurukshetra. | Special Invitee |
| 11. | Sh. G. R. Samantaray
Registrar In-charge
National Institute of Technology,
Kurukshetra. | Member-Secretary |

The nominee of the MHRD could not attend the meeting.

Before the start of the deliberations, the Hon'ble Director and Chairman, Building & Works Committee welcomed all the members present in the meeting. Chairman, B&WC extended warm welcome to new members Er. Surender Singh and Er. Iqbal Singh from CPWD and expressed that with their vast experience they shall make meaningful contribution to the Committee. He also placed on record his appreciation for the outgoing members Er. Niranjana Singh and Er. Vimal Kumar.

The Building & Works Committee took the following decisions:

16.1 To confirm the minutes of 15th meeting of the Building & Works Committee held on 19.12.2011.

The minutes of 15th meeting of Building & Works Committee held on 19.12.2011 as circulated amongst the members vide letter No. NIT/15th BWC/324 dated 16.01.2012 were confirmed.

16.2 To report the action taken on the minutes of the 15th meeting of the Building & Works Committee held on 19.12.2011.

The Building & Works Committee noted the action taken on the minutes of the 15th meeting of the Building & Works Committee held on 19.12.2011.

The members observed that the action taken on many agenda items of various construction works in the minutes of the 15th meeting of the Building & Works Committee held on 19.12.2011 is written as "the work likely to be allotted to CPWD", and the works should already have been allotted since the meeting was held one year ago. Dean Estate explained that there were procedural delay in allotment of works and also the MoU signed with the CPWD is being updated incorporating clauses for timely completion of works. The matter was discussed in detail and it was observed that the delay in allocation of works is on part of the institute and

there is need to find out ways to minimize delays in allotment of works with improvement in laid down procedure, if required. The Building & Works Committee was of the view that the delay in allotment of works should be avoided in future.

16.3 To consider & Approve the Revised Cost Estimate for construction of Administrative Block at NIT, Kurukshetra.

The Building & Works Committee approved the revised cost estimate of Rs. 855.34 lacs for construction of New Administrative Block. The increase in the revised estimated cost is due to:

1. increase in plinth area of the Administrative Building from 3925 sqm. to 4552 sqm. This is due to the reason that CPWD executes works on plinth area basis whereas Institute Architect/Consultant has worked out carpet area instead of plinth area as per architectural drawings.
2. increase in weight of the trusses due to revision of structural drawings of trusses, providing of "arm strong & aluminum sheet" type false ceiling and earthen pivot tiles on floor, and additional provisions of S.I.T.C. of 500 kVA outdoor type Sub-Station equipment, hot & cold cassette type Air Conditioners, S.I.T.C. of 320 kVA D.G. Power Set etc. executed during construction.

16.4 To consider & approve the revised cost estimate for Providing & Installation of Electrical Sub-Station HT/LT Distribution including Street Lightening & Feeder Pillar etc. in Non-Residential area at NIT, Kurukshetra.

The Building & Works Committee approved the revised cost estimate of Rs. 724.90 lacs for Providing & Installation of Electrical Sub-Station HT/LT Distribution including Street Lightening & Feeder Pillar etc. in Non-Residential area. The increase in the revised estimated cost is due to:

1. Increased feeder pillars, increase in load of the various buildings, rating & capacity of cable and switch gears.
2. Additional works like providing HT supply to Mega Boys Hostel & Administrative Block, providing HT service/Bulk supply connection from 33 kVA Sub-Station, UHBVN to metering room near main gate on Kirmich Road executed during construction.

16.5 To consider & approve the Revised Cost Estimate for construction of Convocation Hall (3000 capacity) at NIT, Kurukshetra.

The item was approved in the 8th meeting of B & WC vide Agenda Item No.8.9 held on dated 28.05.2007 for an amount of Rs.550.00 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has submitted a revised cost estimate for the work for an amount of Rs. 6800.00 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate.

The Building & Works Committee approved the revised cost estimate of Rs. 6800.00 lacs for construction of Convocation Hall (3000 capacity).

16.6 To consider & approve the Revised Cost Estimate for construction of Community Hall at NIT, Kurukshetra.

The work was approved in the 1st meeting of B & WC vide agenda item No.1.9 held on 08.11.2002 for an amount of Rs.64.15 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has submitted a revised cost estimate for the above work for an amount of Rs. 715.32 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate.

The B&WC was of the view that provision of CCTV surveillance should also be made in the building. The Building & Works Committee authorized Chairman, B & WC for approval of the revised cost estimate resubmitted by CPWD for the construction of Community Hall.

16.7 To consider & approve the Revised Cost Estimate for construction of Gymnasium/Badminton Hall at NIT, Kurukshetra.

The work was approved in the 6th meeting of B & WC vide agenda item No.6.11 held on 24.04.2006 for an amount of Rs.40.02 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has submitted a revised cost estimate for the above work for an amount of Rs. 532.88 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate.

The Building & Works Committee approved the revised cost estimate of Rs.532.88 lacs for construction of Gymnasium/Badminton Hall at NIT, Kurukshetra.

- 16.8 To consider & approve the Cost Estimate for Provision of Aviation Light & Lightening conductor in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.

The Building & Works Committee approved the Cost Estimate of Rs.22.55 lacs for provision of Aviation Light & Lightening conductor in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.

- 16.9 To consider & approve the Cost Estimate for construction of underground static water tank of 1.5 lacs liter capacity for fire-fighting purpose in Mega Boys hostel at NIT, Kurukshetra.

The Superintending Engineer (Electrical) CPWD explained during the discussion that there is no necessity of constructing underground static water tank of 1.5 lacs litre capacity as per National Building Code (NBC) for fire-fighting purpose in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra. Therefore, specific observation should be taken for requirement of underground water tank from fire department of Kurukshetra as there could be some local administration level safety standards. Further, it was desired that after seeking clarification in the matter, the CPWD may be consulted and in case of differing observation and if required, revised cost estimate be submitted for approval of the Chairman B&WC for execution of the work. The same be reported in next B&WC meeting.

- 16.10 To consider & approve the Cost Estimate for replacement of existing LT Panels with MCCB's/MCB's in the Institute at NIT, Kurukshetra.

The Building & Works Committee approved the Cost Estimate of Rs. 43.62 lacs for replacement of existing LT Panels with MCCB's/MCB's in the all Institutional buildings & hostels.

- 16.11 To consider and approve the Cost Estimate for Replacement of existing Electrical wirings in instructional building at NIT, Kurukshetra.

Superintending Engineer, CPWD has submitted the following cost estimates.

- (i) Replacement/rewiring of AI Wiring with copper wiring in Electrical Engineering Department for an amount of Rs. 1,42,72,401/-.
- (ii) Replacement/rewiring of AI Wiring with copper wiring in old Admn. Block for an amount of Rs. 1,40,22,008/-
- (iii) Replacement/rewiring of AI Wiring with copper wiring in Examination Cell, Mechanical Engineering Department & Civil Engineering Department for an amount of Rs. 1,10,17,292/-

- (iv) Replacement/rewiring of Al Wiring with copper wiring in Electronics & Communication, CCN Department & Exam Hall for an amount of Rs. 1,62,75,545/-

The Building & Works Committee approved the cost estimate for the above cited works for an amount of Rs. 142.72, 140.22, 110.17 and 162.76 lacs respectively.

Further, it was resolved that an institute level survey be done to assess requirement of replacement of electrical wiring in left out portion of instructional buildings (library etc.), and hostels (both boys and girls) and cost estimates be placed before Chairman B&WC who was authorized for approval of the cost estimate.

- 10.12 To consider and approve the Cost Estimate for Provision of staircase in BA, BE, BC, CA, CB & CC Type residential houses in-campus to facilitate the maintenance works at roof top at NIT, Kurukshetra.**

The Building & Works Committee resolved that the above agenda item be suitably revised to provide cost estimate for double storey buildings only. The agenda for the same be placed in the next B&WC meeting for consideration.

- 16.13 To consider and approve the Cost Estimate for Extension of existing connecting corridor upto MBA/ MCA and LHC-Block in the Instructional Buildings at NIT, Kurukshetra.**

The Building & Works Committee deferred the Cost Estimate for extension of existing connecting corridor up to MBA/MCA and LHC-Block at the cost of Rs. 29.26 lacs and desired that the agenda item be suitably revised and placed in the next B&WC meeting for consideration.

- 16.14 To consider & approve the Cost Estimate for Provision of DG power backup at various locations in the Institute covering instructional buildings and related facilities at NIT, Kurukshetra.**

The Building & Works Committee approved the Cost Estimate of Rs. 241.83 lacs for provision of DG power backup at various locations in the Institute covering instructional building and related facilities at NIT, Kurukshetra.

- 16.15 To consider and approve the cost estimate for Provision of DG power backup in boys & girls hostels at NIT, Kurukshetra.**

The Building & Works Committee approved the cost estimate of Rs. 230.44 and 89.74 lacs respectively for providing of DG power backup in boys & girls hostels at NIT, Kurukshetra.

- 16.16 To consider & approve the Cost Estimate for covering of Newly Constructed Graded seating arrangement for 2000 persons in Open Air Theatre at NIT, Kurukshetra.

The Building & Works Committee approved the Cost Estimate of Rs 305.60 lacs for covering of Newly Constructed Graded seating arrangement for 2000 persons in Open Air Theatre at NIT, Kurukshetra.

- 16.17 To consider & approve the Cost Estimate for Provision of lifts for persons with disabilities (PwD) at various locations in the Institute.

The Building & Works Committee approved the Cost Estimate of Rs. 262.87 lacs for Provision of lifts for persons with disabilities (PwD) at various locations in the Institute.

Further, it was resolved that an agenda item be brought in the next B&WC meeting for consideration for the provision of lifts/ramps/hydraulic platform in left out areas of the instructional buildings, guest house and hostels etc.

- 16.18 To consider & approve the Cost Estimate for Widening & strengthening of existing roads at NIT, Kurukshetra.

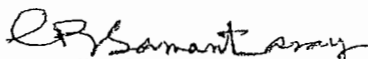
The Building & Works Committee deferred the above agenda item for revision of cost estimate so as to include the expenditure for shifting of electric poles to the central verge of roads.

- 16.19 To consider & approve the cost estimate for Construction of multi-storey building for four schools for PG Study & Research at NIT, Kurukshetra.


The Building & Works Committee resolved that the above agenda item be deferred till the next meeting of B&WC so as to place a revised cost estimate which excludes provision of basement.

It was also resolved that the next meeting of B&WC be held in first fortnight of February, 2013.

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


Registrar(Incharge) & Member-Secretary
Building & Works Committee,
NIT, Kurukshetra

Authenticated


Director, NITK & Chairman,
Building & Works Committee,
NIT, Kurukshetra

Item No. 17.2

To report the action taken on the minutes of the 16th meeting of the Building & Works Committee held on 19.11.2012.

The action taken on the minutes of the 16th meeting of the Building & Works Committee held on 19.11.2012 is enclosed from pages 09 to 15.

To report the action taken on the minutes of the 16th meeting of the Building & Works Committee held on 19.11.2012.

Item No.	Subject	Decision taken	Action taken
16.1	To confirm the minutes of 15 th meeting of the Building & Works Committee held on 19.12.2011	The Building & Works Committee confirmed the minutes of 15 th meeting of the Building & Works Committee held on 19.12.2011.	No further action is required.
16.2	To report the action taken on the minutes of the 15 th meeting of the Building & Works Committee held on 19.12.2011.	<p>The Building & Works Committee noted the action taken on the minutes of the 15th meeting of the Building & Works Committee held on 19.12.2011.</p> <p>The members observed that the action taken on many agenda items of various construction works in the minutes of the 15th meeting of the Building & Works Committee held on 19.12.2011 is written as "the work likely to be allotted to CPWD", and the works should already have been allotted since the meeting was held one year ago. Dean Estate explained that there were procedural delay in allotment of works and also the MoU signed with the CPWD is being updated incorporating clauses for timely completion of works. The matter was discussed in detail and it was observed that the delay in allocation of works is on part of the institute and there is need to find out ways to minimize delays in allotment of works with improvement in laid down procedure, if required. The Building & Works Committee was of the view that the delay in allotment of works should be avoided in future.</p>	The works approved in 15 th meeting of B&WC have been allotted to CPWD
16.3	To consider & Approve the Revised Cost Estimate for construction of Administrative Block at NIT, Kurukshetra.	<p>The Building & Works Committee approved the revised cost estimate of Rs. 855.34 lacs for construction of New Administrative Block. The increase in the revised estimated cost is due to:</p> <p>1. increase in plinth area of the Administrative Building from 3925 sqm. to 4552 sqm. This is</p>	Approval pending from Finance Committee & Board of Governors.

		<p>due to the reason that CPWD executes works on plinth area basis whereas Institute Architect/Consultant has worked out carpet area instead of plinth area as per architectural drawings.</p> <p>2. increase in weight of the trusses due to revision of structural drawings of trusses, providing of "arm strong & aluminum sheet" type false ceiling and earthen pivot tiles on floor, and additional provisions of S.I.T.C. of 500 kVA outdoor type Sub-Station equipment, hot & cold cassette type Air Conditioners, S.I.T.C. of 320 kVA D.G. Power Set etc. executed during construction.</p>	
16.4	To consider & approve the revised cost estimate for Providing & Installation of Electrical Sub-Station HT/LT Distribution including Street Lightening & Feeder Pillar etc. in Non-Residential area at NIT, Kurukshetra.	<p>The Building & Works Committee approved the revised cost estimate of Rs. 724.90 lacs for Providing & Installation of Electrical Sub-Station HT/LT Distribution including Street Lightening & Feeder Pillar etc. in Non-Residential area. The increase in the revised estimated cost is due to:</p> <p>1.Increased feeder pillars, increase in load of the various buildings, rating & capacity of cable and switch gears.</p> <p>2.Additional works like providing HT supply to Mega Boys Hostel & Administrative Block, providing HT service/Bulk supply connection from 33 kVA Sub-Station, UHBVN to metering room near main gate on Kirmich Road executed during construction.</p>	Approval pending from Finance Committee & Board of Governors
16.5	To consider & approve the Revised Cost Estimate for construction of Convocation Hall (3000 capacity) at NIT, Kurukshetra.	The item was approved in the 8 th meeting of B & WC vide Agenda Item No.8.9 held on dated 28.05.2007 for an amount of Rs.550.00 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has submitted a revised cost	Approval pending from Finance Committee & Board of Governors

		<p>Committee & Board of Governors estimate for the work for an amo Approval pending from Finance Committee & Board of Governors unt of Rs. 6800.00 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate.</p> <p>The Building & Works Committee approved the revised cost estimate of Rs. 6800.00 lacs for construction of Convocation Hall (3000 capacity).</p>	
16.6	To consider & approve the Revised Cost Estimate for construction of Community Hall at NIT, Kurukshetra.	<p>The work was approved in the 1st meeting of B & WC vide agenda item No.1.9 held on 08.11.2002 for an amount of Rs.64.15 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has submitted a revised cost estimate for the above work for an amount of Rs. 715.32 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate.</p> <p>The B&WC was of the view that provision of CCTV surveillance should also be made in the building. The Building & Works Committee authorized Chairman, B & WC for approval of the revised cost estimate resubmitted by CPWD for the construction of Community Hall.</p>	Approval pending from Finance Committee & Board of Governors
16.7	To consider & approve the Revised Cost Estimate for constructionof Gymnasium Hall at NIT, Kurukshetra.	<p>The work was approved in the 6th meeting of B & WC vide agenda item No.6.11 held on 24.04.2006 for an amount of Rs.40.02 lacs. The work could not be under-taken due to other priority works by the Institute. Chief Engineer, CPWD has</p>	Approval pending from Finance Committee & Board of Governors

		<p>submitted a revised cost estimate for the above work for an amount of Rs. 532.88 lacs. Increase in cost is due to cost escalation during the period, and increase in plinth area to cater to increased strength of students and on account of additional facilities provided in revised cost estimate</p> <p>The Building & Works Committee approved the revised cost estimate of Rs.532.88 lacs for construction of Gymnasium/ Badminton Hall at NIT, Kurukshetra.</p>	
16.8	To consider & approve the Cost Estimate for Provision of Aviation Light & Lightening conductor in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.	The Building & Works Committee approved the Cost Estimate of Rs.22.55 lacs for provision of Aviation Light & Lightening conductor in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra	Approval pending from Finance Committee & Board of Governors
16.9	To consider & approve the Cost Estimate for construction of underground static water tank of 1.5 lakh liter capacity for fire-fighting purpose in Mega Boys hostel at NIT, Kurukshetra.	The Superintending Engineer (Electrical) CPWD explained during the discussion that there is no necessity of constructing underground static water tank of 1.5 lacs litre capacity as per National Building Code (NBC) for fire-fighting purpose in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra. Therefore, specific observation should be taken for requirement of underground water tank from fire department of Kurukshetra as there could be some local administration level safety standards. Further, it was desired that after seeking clarification in the matter, the CPWD may be consulted and in case of differing observation and if required, revised cost estimate be submitted for approval of the Chairman B&WC for execution of the work. The same be reported in next B&WC meeting.	Approval pending from Finance Committee & Board of Governors
16.10	To consider & approve the Cost Estimate for replacement of existing LT Panels with MCB's in the Institute at NIT, Kurukshetra.	The Building & Works Committee approved the Cost Estimate of Rs. 43.62 lacs for replacement of existing LT Panels with MCCB's/MCB's in the all Institutional buildings & hostels.	Approval pending from Finance Committee & Board of Governors

16.11	To consider and approve the Cost Estimate for Replacement of existing Electrical wirings in instructional building at NIT, Kurukshetra.	<p>Superintending Engineer, CPWD has submitted the following cost estimates.</p> <p>i) Replacement/rewiring of Al Wiring with copper wiring in Electrical Engineering Department for an amount of Rs. 1,42,72,401/-.</p> <p>ii) Replacement/rewiring of Al Wiring with copper wiring in old Admn. Block for an amount of Rs. 1,40,22,008/-</p> <p>Replacement/rewiring of Al Wiring with copper wiring in Examination Cell, Mechanical Engineering Department & Civil Engineering Department for an amount of Rs. 1,10,17,292/-</p> <p>iii) Replacement/rewiring of Al Wiring with copper wiring in Electronics & Communication, CCN Department & Exam Hall for an amount of Rs. 1,62,75,545/-</p> <p>The Building & Works Committee approved the cost estimate for the above cited works for an amount of Rs. 142.72, 140.22, 110.17 and 162.76 lacs respectively.</p> <p>Further, it was resolved that an institute level survey be done to assess requirement of replacement of electrical wiring in left out portion of instructional buildings (library etc.), and hostels (both boys and girls) and cost estimates be placed before Chairman B&WC who was authorized for approval of the cost estimate.</p>	Approval pending from Finance Committee & Board of Governors
16.12	To consider and approve the Cost Estimate for Provision of staircase in BA, BB, BC, CA, CB & CC Type residential houses in campus to facilitate the maintenance works at roof top at NIT, Kurukshetra.	The Building & Works Committee resolved that the above agenda item be suitably revised to provide cost estimate for double storey buildings only. The agenda for the same be placed in the next B&WC meeting for consideration	Approval pending from Finance Committee & Board of Governors
16.13	To consider and approve the Cost Estimate for Extension of existing connecting corridor upto MBA/ MCA and LHC-Block	The Building & Works Committee deferred the Cost Estimate for extension of existing connecting corridor up to MBA/MCA and LHC-Block at	Approval pending from Finance Committee & Board of Governors

	in the Instructional Buildings at NIT, Kurukshetra.	the cost of Rs. 29.26 lacs and desired that the agenda item be suitably revised and placed in the next B&WC meeting for consideration	
16.14	To consider & approve the Cost Estimate for Provision of DG power backup at various locations in the Institute covering instructional buildings and related facilities at NIT, Kurukshetra.	The Building & Works Committee approved the Cost Estimate of Rs. 241.83 lacs for provision of DG power backup at various locations in the Institute covering instructional building and related facilities at NIT, Kurukshetra	Approval pending from Finance Committee & Board of Governors
16.15	To consider and approve the cost estimate for Provision of DG power backup in boys & girls hostels at NIT, Kurukshetra.	The Building & Works Committee approved the cost estimate of Rs. 230.44 and 89.74 lacs respectively for providing of DG power backup in boys & girls hostels at NIT, Kurukshetra.	Approval pending from Finance Committee & Board of Governors
16.16	To consider & approve the Cost Estimate for covering of Newly Constructed Graded seating arrangement for 2000 persons in Open Air Theatre at NIT, Kurukshetra.	The Building & Works Committee approved the Cost Estimate of Rs. 305.60 lacs for covering of Newly Constructed Graded seating arrangement for 2000 persons in Open Air Theatre at NIT, Kurukshetra.	Approval pending from Finance Committee & Board of Governors
16.17	To consider & approve the Cost Estimate for Provision of lifts for persons with disabilities (PwD) at various locations in the Institute.	The Building & Works Committee approved the Cost Estimate of Rs. 262.87 lacs for Provision of lifts for persons with disabilities (PwD) at various locations in the Institute. Further, it was resolved that an agenda item be brought in the next B&WC meeting for consideration for the provision of lifts/ramps/hydraulic platform in left out areas of the instructional buildings, guest house and hostels etc.	Approval pending from Finance Committee & Board of Governors
16.18	To consider & approve the Cost Estimate for Widening & strengthening of existing roads at NIT, Kurukshetra.	The Building & Works Committee deferred the above agenda item for revision of cost estimate so as to include the expenditure for shifting of electric poles to the central verge of roads.	Approval pending from Finance Committee & Board of Governors
16.19	To consider & approve the cost estimate for Construction of multi-storey building for four schools for PG Study & Research at NIT, Kurukshetra.	The Building & Works Committee resolved that the above agenda item be deferred till the next meeting of B&WC so as to place a revised cost estimate which excludes provision of basement.	Approval pending from Finance Committee & Board of Governors

Item No. 17.3

To consider & approve the Revised Cost Estimate for construction of Boundary wall (left out stretches) for a length of about 800 meter and gate (near UHBVN office) at NIT, Kurukshetra.

The above mentioned work was placed in the 15th Building & Works Committee meeting held on 19.12.2011 vide Item No. 15.14. The Building & Works Committee advised to adopt DSR for revised Cost estimate instead of HSR. The Building & Works Committee approved the rough cost estimate for construction of Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at the cost of Rs. 48.25 lacs on DSR basis. The work was allotted to CPWD vide letter No. CC/21/98 dated 07-01-2013 with A/A & E/S for Rs. 48.25 lacs and necessary funds were transferred to CPWD for commencement of work. Now, CPWD has submitted the revised cost estimate amounting to Rs. 84.276 lacs for A/A & E/S due to increase in cost index & actual provisions at the site.

The B & WC may consider and approve the revised cost estimate for the above cited work for an amount of Rs. 84.276 lacs.

- 15.12 To consider and approve the Rough Cost Estimate for Construction of 300 seater Multi-Purpose Boys Hostel including 100 suites for foreign students, research scholars and married PG students. (Multi-Storeyed framed structure Ground Floor + 5) at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for construction of 300 seater Multi-Purpose Boys Hostel including 100 suites for foreign students, research scholars and married PG students. (Multi-storied framed structure Ground Floor + 5) at a cost of Rs. 35.96 crores including additional 5% for the provisions of green building i.e. provision of solar water heating system, solar lighting system etc.

- 15.13 To consider and approve the Rough Cost Estimate for Construction of 3 Storey bearer barrack comprising of 2 blocks to accommodate 96 bearers at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate for Construction of 3 Storey bearer barrack comprising of 2 blocks to accommodate 96 bearers at a cost of Rs. 2.45 crores.

- 15.14 To consider & approve the Rough Cost Estimate for construction of Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at NIT, Kurukshetra.

The Building & Works Committee advised to adopt DSR for revised cost estimate instead of HSR.

The Building & Works Committee approved the Rough Cost Estimate for construction of Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at the cost of Rs. 48.25 lacs on DSR basis (Annexure -4).

- 15.15 To consider and approve the Rough cost estimate providing permanent fencing along the lawns & gardens of the Institute with revolving entry gates including CC pathways at NIT, Kurukshetra.

The Building & Works Committee advised to adopt DSR for revised cost estimate instead of HSR.

Detailed Estimate

Name of Work:- Construction of boundary wall (left out stretches) for a length of about 800 metre and gate (near UHBVN Office) at NIT, Kurukshetra.

SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
1	EARTH WORK					2
1.1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					2.8
1.1.1	All kinds of soil.	960.00	cum	130.80	125568.00	2.8.1
1.2	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.	640.00	cum	83.80	53632.00	2.25
	Sub-Total				179200.00	
2	CONCRETE WORK					4
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :					4.1
2.1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	80.00	cum	3357.40	268592.00	4.1.10
	Sub-Total				268592.00	
3	REINFORCED CEMENT CONCRETE					5
3.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :					5.1
3.1.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	233.00	cum	5094.85	1107100.00	5.1.2
3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement :					5.2
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	249.00	cum	5735.75	1428202.00	5.2.2
3.3	Centring and shuttering including strutting, propping etc. and removal of form for :					5.9
3.3.1	Foundations, footings, bases of columns, etc. for mass concrete.	240.00	sqm	166.90	40056.00	5.9.1
3.3.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	4800.00	sqm	285.15	1368720.00	5.9.2
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
3.4.1	Thermo-Mechanically Treated bars.	20970.00	kg	62.25	1305383.00	5.22.6
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
3.5.1	Thermo-Mechanically Treated bars.	22410.00	kg	62.25	1395023.00	5.22A.
	Sub-Total				6724484.00	

SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
4	STEEL WORK					10
4.1	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					10.25
4.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	400.00	kg	77.90	31160.00	10.25.2
	Sub-Total				31160.00	
5	DISMANTLING & DEMOLISHING					15
5.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.					15.2
5.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	72.00	cum	671.05	48316.00	15.2.1
	Sub-Total				48316.00	

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CC/ 21/eq

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 Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) 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	Construction of Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at NIT, Kurukshetra.	Rs. 48.25 (Rs. Forty Eight Point Twenty Five Lacs Only)

[Signature]
21/1/13
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)

Dated. 19/3/13

N.I.T. KURUKSHETRA

Dy. No.		182		Date.		19/3/13	
R	DPD	DAC	DAD	CVO	CoE	O	
E	M	EC	ICa	PII	Ch	Ma	
Hu	CW	WS	PC	PS	EDC		
PE	CCN	PT	PCE	PRO	LMO	L	
GA	A	SO	EO	DS	PIS	PIC	

भारत सरकार

केन्द्रीय लोक निर्माण विभाग

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

संख्या: च.के.परि./23(4515) /W-II/ 626

दिनांक: 13/3/13

सेवा में,

✓ Registrar,
National Institute of Technology,
Kurukshetra.

विषय: Construction of boundary wall (left out stretches) for a length of about
800 metre and gate (near UHBVN office) at NIT, Kurukshetra.

महोदय,

उपरोक्त कार्य का 84,27,600/-रूपये राशि का संशोधित प्रारम्भिक अनुमान इसके साथ दो प्रतियों में संलग्न किया जाता है। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हैड ऑफ एकाउंट) का भी उल्लेख करने की कृपा करें।

संलग्न: अनुमान दो प्रतियां।

भवदीय

19/3/13

अधीक्षण अभियंता,
Telefax : 2743923

प्रतिलिपि:-

1. मुख्य अभियंता (उ.अ.-1), के.लो.नि.वि., चण्डीगढ़।
2. अधीक्षण अभियंता, चण्डीगढ़ केन्द्रीय वैधुत परिमण्डल, के.लो.नि.वि., केन्द्रीय सदन, चण्डीगढ़।
3. कार्यापालक इंजीनियर, करनाल के.मंडल, के.लो.नि.वि. करनाल को अनुमान की प्रति सहित।
4. कार्यापालक इंजीनियर, करनाल के. वैधुत मंडल, के.लो.नि.वि. करनाल को अनुमान की प्रति सहित।

संलग्न: उपरोक्त।

अधीक्षण अभियंता

Dean (Estates)

19/3/13

19/3/13

19/3/13

Central Public Works Department

Name of Work : Construction of boundary wall (left out stretches) for a length of about 800 metre and gate (near UHBVN Office) at NIT, Kurukshetra.

This estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal and processed by Er. R.K. Gandhi Executive engineer (P), Chandigarh Central Circle, Chandigarh for Rs. 84,27,600/- i/c 5% contingencies.

History

This revised preliminary cum detailed estimate amounting to Rs. 84,27,600/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of revised A/A & E/S of the competent authority. The A/A & E/S of the above said work has been received from client department vide letter No. CC/21 Dt. 7.1.2013 for amounting to Rs. 48.25 lacs on the basis of estimate framed by NIT engineering department. The funds sanctioned by the client department are not sufficient to meet the cost. The cost increase is due to increase in the cost index and actual provisions at site. Hence the revised estimate to obtain revised A/A & E/S amounting to Rs. 84,27,600/- from the client department.

Design & Scope :

Following provision has been made (for civil work only) in the estimate:-

1. Earth work.
2. P/L CC 1:5:10.
3. RCC 1:1½:3 in foundation & superstructure.
4. Centering/shuttering, reinforcement.
5. Steel work for grill & gates.

Specification : As per CPWD Specification 2009 vol I to II with upto date correction slip.

WC

Establishment : Shall be met out of contingencies.


T&P : Shall be arranged by the contractor.

Land : Available

Method : As per DSR 2012 with upto date correction slip.


Time : Four months.

Cost : Rs. 84,27,600/- i/c 5% contingencies.


Assistant Engineer (P III)

Chandigarh Central Circle

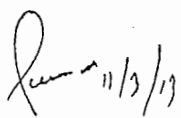
CPWD, Chandigarh



Executive Engineer (P)

Chandigarh Central Circle

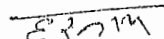
CPWD, Chandigarh

Detailed Estimate		
Name of Work:- Construction of boundary wall (left out stretches) for a length of about 800 metre and gate (near UHBVN Office) at NIT, Kurukshetra.		
Sr. No.	Description	Amount
1	EARTH WORK	179200.00
2	CONCRETE WORK	268592.00
3	REINFORCED CEMENT CONCRETE	6724484.00
4	STEEL WORK	31160.00
5	DISMANTLING & DEMOLISHING	48316.00
	Total	7251752.00
	Add Cost Index @ 5.37% (157-149 / 149 x 100)	389419.00
	Total	7641171.00
	Add Contingencies @5%	382059.00
	Total	8023230.00
	Add Labour Cess @1%	80232.00
	Total	8103462.00
	Add VAT @4%	324138.00
	Total	8427600.00


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


 Executive Engineer (P)
 Chandigarh Central Circle
 CPWD, Chandigarh

Detailed Estimate Amounting to Rs 84,27,600/- (Rs Eighty four lacs twenty seven thousand and six hundred only) is approved for onward submission to client deaprtment to accord revised A/A & E/S


 Superintending Engineer
 Chandigarh Central Circle
 CPWD, Chandigarh

Item No. 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 above mentioned work was placed in the 9th Building & Works Committee meeting held on 17.03.2008 vide Item No. 9.10. The Building and Works Committee approved cost estimate for the replacement of old C.I./A.C. water supply lines with Centrifugally Cast (spun) Iron Pipes (class) L.A. in the Residences, Hostels & Instructional Buildings at NIT, Kurukshetra for an amounting to Rs.175 lacs. The cost estimate was prepared on the basis of HSR 1988. The work has been allotted to CPWD vide letter No. CC/11/88 dated 07-01-2013 with A/A & E/S for Rs. 175 lacs. Now, CPWD has submitted the revised cost estimate amounting to Rs. 222.05 lacs (copy enclosed) for A/A & E/S due to increase in cost index & scope of work.

The B & WC may consider and approve the revised cost estimate for the above cited work for an amount of Rs. 222.05 lacs.

Item No.9.7 To consider and approve the cost estimate for providing & fixing of Wash Basin & Looking Glass along with necessary accessories in G-Type Houses at National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for providing & fixing of Wash Basin & Looking Glass along with necessary accessories in G-Type Houses at National Institute of Technology, Kurukshetra, amounting to Rs. 6.00 lacs.

Item No.9.8 To consider and approve the cost estimate for providing & installation of 2 Nos. Tubewells in National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for providing & installation of 2 Nos. Tubewells in National Institute of Technology, Kurukshetra amounting to Rs. 19.75 lacs.

Item No.9.9 To consider & approve cost estimate for replacement of A.C.C. sheets with Zincalume sheets & renovation of water channel in Central/Old Workshop at National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for replacement of A.C.C. sheets with Zincalume sheets & renovation of water channel in Central/Old Workshop at National Institute of Technology, Kurukshetra amounting to Rs. 67.053 lacs.

Item No.9.10 To consider and approve the cost estimate for the replacement of old C.I./A.C. water supply lines with Centrifugally Cast (spun) Iron Pipes (class) L.A. in the Residences, Hostels & Instructional Buildings at National Institute of Technology, Kurukshetra..

The Building and Works Committee approved cost estimate for the replacement of old C.I./A.C. water supply lines with Centrifugally Cast (spun) Iron Pipes (class) L.A. in the Residences, Hostels & Instructional Buildings at National Institute of Technology, Kurukshetra. amounting to Rs. 1.75 crore.

Item No.9.11 To consider and approve the cost estimate for providing Distempering instead of White Washing in various residences at National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for providing Distempering instead of White Washing in various residences at National Institute of Technology, Kurukshetra amounting to Rs. 78.75 lacs.

Item No.9.12 To consider and approve the cost estimate for construction of Administrative Block in National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for the construction of Administrative Block in National Institute of Technology, Kurukshetra amounting to Rs. 6.59 Crore.

Item No.9.13 To consider and approve the revised rough cost estimate for the installation of HT/LT Sub- Station at National Institute of Technology, Kurukshetra

The Building and Works Committee approved cost estimate for the installation of HT/LT Sub- Station at National Institute of Technology, Kurukshetra amounting to Rs. 582.00 lacs.

RH 27/3/2008

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

No. CCI/ 11/89

Dated: 07/01/2013
es

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. 175.00 (Rs. One Hundred Seventy Five Lacs Only)

[Signature]
21/1/13
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)

2

2

**ESTIMATE FOR THE REPLACEMENT OF ABOUT 45 YEARS OLD C.I./A.C.
WATER SUPPLY LINES WITH CENTRIFUGALLY CAST (SPUN) IRON PIPES (CLASS)
L.A. IN THE RESIDENCES, HOSTELS & INSTRUCTIONAL BUILDINGS IN THE
INSTITUTE**

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 04-03-2006)

Sr. No.	HSR No.	Description	Qty.	Unit	Rate (In Rs.)	C.P.	Total Rate (Rs.)	Amount (in Rs.)
		EXTERNAL WATER SUPPLY						
1	6.8	EXCAVATION FOR PIPELINES RUNNING UNDER PRESSURE IN TRENCHES AND PITS, IN OPEN AREAS, WHERE DISPOSAL OF SURPLUS EARTH IS DONE ALONGWITH THE ALIGNMENT including tumming & dressing sides, levelling of beds of trenches to correct grade, cutting joint holes, cutting trees and bushes, etc., refilling consolidation and watering of refill in 15 cm layers AND RESTORATION OF UNMETALLED OR UNPAVED SURFACE TO ITS ORIGINAL CONDITION, including the cost of dewatering of rain water, diversion of traffic, night signals, fixing caution boards, watching fencing etc., and outside the town in ORDINARY SOIL:						
	a	Without timbering and shoring upto 1.5 meters depth	11332	100 cum	1030.00	250%	3605.00	408519
2	NSR	Providing and stringing S & S centrifugally cast (spun) iron pipes (Class LA) with CI specials, bends, tees, required fittings, lead and yarn etc complete in trenches to the approval of Engineer-in-charge.						
		80 mm dia Pipes	3437	mtr	760.00		760.00	2612120
		100 mm dia Pipes	2077	mtr	975.00		975.00	2025075
		150 mm dia Pipes	5201	mtr	1550.00		1550.00	8061550
		200 mm dia Pipes	1876	mtr	1670.00		1670.00	3132920
3	NSR	Supplying and fixing ISI marked C.I. sluice valve(with cap) complete with bolts,nuts, rubber insertions etc, (the tall pices if required will be paid separately) double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge						
		80 mm diameter	40	each	3500.00		3500.00	140000
		100 mm diameter	23	each	4450.00		4450.00	102350
		150 mm diameter	35	each	12050.00		12050.00	421750
		200 mm diameter	11	each	18500.00		18500.00	203500

(3)

No.	HSR No.	Description	Qty.	Unit	Rate (in Rs.)	C.P.	Total Rate (Rs.)	Amount (in Rs.)
4	NSR	Supplying and fixing ISI marked C.I. Scouring valve (with cap) complete with bolts,nuts, rubber insertions etc. (the tail pices if required will be paid separately) double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge.	7	each	3500.00		3500.00	24500
5	NSR	Supplying and fixing ISI marked C.I. fire hydrant (with cap) complete with bolts,nuts, rubber insertions etc. (the tail pices if required will be paid separately) double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge.						
		80 mm diameter	7	each	3500.00		3500.00	24500
6	NSR	Const. of sluice valve haudi 1m x 1m x 1m with brick work 1:5 cement sand mortar finished with 12.5mm cement plaster 1:4 including RCC 1:2:4 slab with reinforcement, surface box complete in all respect to the approval of Engineer-in-charge	120	each	2650.00		2650.00	318000
		TOTAL						17474784

Sd/-
Executive Engineer
Construction Cell
NIT, Kurukshetra

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
चण्डीगढ़ केन्द्रीय परिमण्डल

केन्द्रीय सदन, सैक्टर-9ए, चण्डीगढ़-160009

संख्या:-च.के.परि./23(4515)नि.3/

943 M/17/113

दिनांक:-

22/4/13

✓ सेवा में,

अध्यक्ष (E, C & EM),
एन.आई.टी.,
कुरुक्षेत्र

प्रो. 14 (E & C)
प्रो. 14 (S & C) / B & F

3-18/13
A & C

प्रो. 14 (E & C)

3-18/13
A & C

विषय:-

Replacement of C.I./AC water supply lines with centrifugally cast (spun) iron pipes class L.A. in Residence, Hostels & instructional building at NIT, Kurukshetra..

PROJECT CODE - NIT/HR/2013/4

महोदय,

उपरोक्त कार्य का 2,22,05,000/- रुपये राशि का प्रारम्भिक अनुमान इसके साथ दो प्रतियों में संलग्न किया जाता है। इस कार्य के लिए आवेदन आपके पत्र संख्या : CC/11 dated 7-1-2013 द्वारा भेजा गया था। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ-साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाई हो सकती है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हैड ऑफ अंकाउंट) का नाम भी उल्लेख करने की कृपा करें। आपके पत्र 7/1/2013 द्वारा दी गई स्पष्ट स्वीकृति कार्य को करवाने के लिए पर्याप्त नहीं है

संलग्न: अनुमान दो प्रतियां।

भवदीय

अधीक्षण अभियंता,
Telefax : 2743923

प्रतिलिपि: -

- 1 मुख्य अभियंता (उ.अं-1), के.लो.नि.वि., केन्द्रीय सदन, सैक्टर-9ए, चण्डीगढ़।
- 2 कार्यपालक अभियंता, करनाल केन्द्रीय मण्डल, के.लो.नि.वि., करनाल को अनुमान की एक प्रति सहित।

अधीक्षण अभियंता

GOVT. OF INDIA

State: - Haryana

Division:- Karnal Central

Branch:- B&R

Name of work: - Replacement of C.I./AC water supply lines with centrifugally cast (Spun) iron pipes class L.A. in the Residence, Hostels & instructional building at NTT, Kurukshetra.

Major Head	Minor Head	Detailed Head
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This Preliminary cum detailed estimate framed by Er. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal and further processed by Er. R.K. Gandhi, 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/11 dated 7-1-2013 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. I & II with up to date correction slips.

Rate:- D.S. R. 2012.

Cost:- ₹2,22,05,000/- including 3% contingencies.

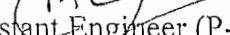
W.C. Estt:- Shall be met out of contingencies.

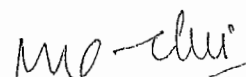
T&P:- Shall be arranged by the contractor.

Method:- By Contract after call of tender.

Land:- Available.

Time:- Ten months.


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

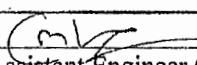
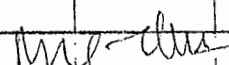
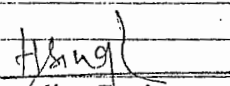

Executive Engineer (P)
Chandigarh Central Circle
CPWD, Chandigarh.

SCHEDULE OF QUANTITIES

Name of Work:- Replacement of C.I./AC Water supply lines with centrifugally cast (spun) iron pipes class L.A. in the Residences, Hostels & instructional building at NIT, Kurukshetra.

S.No.	Item Code	Description of item	Qty	unit	Rate	Amount
1.0		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 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 :				
1.1.1	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.	11385.00	metre	165.60	1885356.00
2.0		SH. Road Works				
2.1	18.12	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.				
2.1.1	16.13.1	bituminous portion	8.00	cum	1861.60	14893.00
2.1.2	16.13.2	Water bound macadam.	33.00	cum	989.25	32645.00
3.0		SH:- WATER SUPPLY:-				
3.1	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling				
		External work				
3.1.1	18.12.3	25 mm dia. nominal bore	2310.00	metre	209.40	483714.00
3.2	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
3.2.1	18.17.1	25 mm nominal bore	385.00	each	372.95	143586.00

S.No.	Item Code	Description of item	Qty	unit	Rate	Amount
3.3	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
3.3.1	18.20.1	15 mm nominal bore	385.00	each	203.30	78271.00
3.4	18.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class) :				
3.4.1	18.25.1	Up to 300 mm dia.	25.00	quintal	4202.35	105059.00
3.5	18.31	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) :				
3.5.1	18.31.1	100 mm diameter				
3.5.1.1	18.31.1.2	Class II	71.00	each	3498.30	248379.00
3.5.2	18.31.3	150 mm diameter				
3.5.2.1	18.31.3.2	Class II	39.00	each	5200.40	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 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), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				

S.No.	Item Code	Description of item	Qty	unit	Rate	Amount
3.6.1	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	125.00	each	9277.10	1159638.00
3.7	18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
3.7.1	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	4310.00	metre	946.00	4077260.00
3.7.2	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	5005.00	metre	1389.40	6953947.00
3.7.3	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	2070.00	metre	1895.40	3923478.00
					Total:-	19477951.00
		Add cost index @ 5.37%(157-149/149x100)				1045966.00
					Total:-	20523917.00
		Add contingencies @ 3%				615718.00
					Total:-	21139635.00
		Add Labour Cess @ 1.00%				211396.00
					Total:-	21351031.00
		Add VAT @ 4%				854041.00
					G.Total:	22205072.00
		Say Rs. 2,22,05,000/-				
		 Assistant Engineer (P-III) Chandigarh Central Circle CPWD, Chandigarh.			 Executive Engineer(P) Chandigarh Central Circle CPWD, Chandigarh.	
The preliminary estimate amounting to Rs.2,22,05,000/- (Rs.Two crore twenty two lacs five thousand only) is submitted to the client department for accord of A/A & E/S of the competent authority.						
		 Superintending Engineer. Chandigarh Central Circle, CPWD, Chandigarh.				

To ratify the action taken by Chairman, B&WC to accord A/A and E/S for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra

The Golden Jubilee Convocation (10th Convocation) of NIT, Kurukshetra was held on 09.04.2013 which was presided over by His Excellency, the President of India.

In view of the above, as desired by the competent authority the Executive Engineer (Civil) Karnal Central Division, CPWD, Karnal vide their letter No. 20{142}/KCED/Karnal/2013/223 dated 28-01-2013 submitted the preliminary cum detailed estimate for the above said works for Administrative Approval & Expenditure Sanction as under:

Sr. No.	Name of work	Estimated amount
1	Recarpetting of roads from NIT, Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT, Chowk at NIT, Kurukshetra.	24,88,200/-
2	Recarpetting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.	15,44,100/-
3.	Recarpetting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.	17,91,300/-
4.	Recarpetting of road from Apollo Canteen Chowk to Y shape road via pen Air Theatre at NIT, Kurukshetra.	4,73,000/-
	Total	62,96,600/-

Due to emergent works, Chairman B&WC accorded the A/A & E/S for the works as per NIT STATUES under Clause 13(2) in-anticipation of approval of works by the B&WC & BOG, NIT, Kurukshetra.

During execution of work it was found that widening of road from main road to Guest House, and Apollo Chowk to Open Air Theatre was essential for visit of His Excellency President of India apart from provision of chequered tiles under porch of Guest House. The works have already been executed by CPWD. The necessary funds were transferred to CPWD for execution of work.

The matter is placed before B&WC for consideration & approval.

Subject: - Administrative Approval & Expenditure Sanction for Providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra.

The Golden Jubilee Convocation (10th Annual Convocation) of NIT Kurukshetra is scheduled to be held on 09.04.2013 which will be presided over by His Excellency, the President of India.

In view of the above, as desired by the competent authority, Executive Engineer (Civil), Karnal Central Division, CPWD, Karnal was requested vide this office letter No. CC 34 dated 19.01.2013 (copy of letter attached) to submit the estimate for recarpeting the following roads:

1. From NIT Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT Chowk.
2. Main approach road to Guest House and around Guest House roads.
3. Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.
4. Apollo Canteen Chowk to Y shape road via Open Air Theatre.

Accordingly, the Executive Engineer (Civil) Karnal Central Division, CPWD, Karnal vide their letter No. 20{142}/KCED/Karnal/2013/223 dated 28-01-2013 submitted the preliminary cum detailed estimate for the above said works for Administrative Approval & Expenditure Sanction as under:

Sr. No.	Name of work	Estimated amount
1	Recarpeting of roads from NIT, Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT, Chowk at NIT, Kurukshetra.	24,88,200/-
2	Recarpeting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.	15,44,100/-
3	Recarpeting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.	17,91,300/-
4	Recarpeting of road from Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.	4,73,000/-
	Total	62,96,600/-

For this matter, powers and functions of the Building & Works Committee as per NIT STATUTES under clause -13(2) is reproduced as under:

"if in the opinion of the Chairman of the Building and Works Committee, any emergency has arisen which requires immediate action to be taken, he shall take such action and report the same to the Building and Works Committee and the Board at their next meeting".

In view of the above, if agreed, the Hon'ble Director and Chairman Building & Works Committee may accord Administrative Approval & Expenditure Sanction of the above cited works in anticipation of the approval of Building & Works Committee, and the BOG for an amount of Rs. 62,96,600/- (Rupees Sixty two lacs ninety six thousand six hundred only) for providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra. so that the work may be allotted to CPWD for execution and the same be completed before visit of His Excellency, the President of India.

Submitted for approval please.

[Signature]
J.E. (C)

[Signature]
Accountant

[Signature]
Head Clerk

[Signature]
Executive Engineer

[Signature]
A.E. (Civil) 27/13

Prof. I/C (E & C) *[Signature]* 27/13

Dean (Estate) *[Signature]* 27/13

D.R. (Accounts) *[Signature]*

Registrar *[Signature]*

Director *[Signature]*

The work mentioned above are not approved by Building & Works Committee. These works can only be started in anticipation of approval of Chairman of BWC and subsequent approval of BOG as stated above. This Chairman, BWC may be approved and proposed for 'A' category account A A & ES for the above work.

On Monday afternoon, the following
 of the work in the light of
 work of his brother, Harold
 President of Judges on 9.4.2008.
 The Chairman, Bide and after
 the proposal of Dean (Estate)

[Signature]
 15/2/13
 Approved, the matter be reported &
 subject in the next meeting of BOWC
 & BOWC.

[Signature]
 15/2/13
 Dean (Estate)
[Signature]
 15/2/13
 Ex/Er
 AEC (C) / H.C.
 15/2/13
 15/2/13

Letter issued to CPD on 15/2/13
 15-2-13
 15-2-13

NATIONAL INSTITUTE OF TECHNOLOGY
(INSTITUTION OF NATIONAL IMPORTANCE)
KURUKSHETRA

No/CC/34

Dated: 17/11/13

To

The Executive Engineer (Civil)
Karnal Central Division,
CPWD, 448 Subash Colony,
Karnal.

Subject: - Submitting estimate for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra.

As the 10th Convocation of NIT, Kurukshetra is scheduled to be held on 09-04-2013 which will be presided over by His Excellency President of India. It has been decided by the Competent Authority of NIT, Kurukshetra that 40mm thick premix carpeting is to be laid including filling pot holes and leveling course, if required on various roads in the Institute urgently. In this context, you are requested, to submit the following estimates immediately:

1. From NIT Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT Chowk.
2. Main approach road to Guest House and around Guest House roads.
3. Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8.
4. Apollo Canteen Chowk to Y shape road via Open Air Theatre.

The work of widening of road from Kirmich Road Gate to Hostel No. 4 Chowk has already been allotted to you and execution of the same be expedited.

An early action is requested please.

[Signature]
19/11/13
Dean (Estate)

CC:

1. S.S. to Director for kind information of the Hon'ble Director please.
2. Executive Engineer, Construction Cell, NITK
3. Asstt. Engineer (Civil), NITK

AE/CP)
Dmm
ah
24/11/13
EE
24/11/13

19/1

24/11/13

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

संख्या- 20(147)/लो.शा./क.के.मं/2013/223

दिनांक 28-1-2013

सेवा में,

The Director,
NIT, Kurukshetra

N.I.T. KURUKSHETRA									
Dy. No.		Date							
DPD	DPAC	DPAD	ICVO	ICCE	IC	IM	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW
ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW	ICW

- विषय :
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. 7,8 at NIT, Kurukshetra.
 4. Recarpetting of road from Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.

महोदय,

उपरोक्त कार्य का विस्तृत प्रावचन जिसकी लागत रुपये 24,88,200/-, रुपये 15,44,100/-, रुपये 17,91,300/- एवं रुपये 4,73,000/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतु संलग्न है।

आपसे अनुरोध है कि उपरोक्त स्वीकृति जल्दी से जल्दी भेजें ताकि अग्रिम कार्यवाही की जा सकें। प्रावचन की एक प्रति भी प्रशासनिक स्वीकृति पत्र के साथ संलग्न करें।

भवदीय,

संलग्न : उपरोक्तानुसार

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

प्रतिलिपि :-

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

Dean (Estate)

कार्यपालक अभियंता

Estimate forwarding 340

Dean (Estate)

1/2/13

1/2/13

X/R

1/2/13

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

State HARYANA

Branch KARNAL

DIVISION KARNAL CENTRA

SUB-DIVISION KARNAL CENTRA


Name of Work : Recarpetting of roads from NIT Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT Chowk at NIT, Kurukshetra


Major Head	Minor Head	Detailed Head
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This preliminary cum detailed estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 24,88,200/- i/c 5% contingencies.

REPORT

- History** This preliminary cum detailed estimate amounting to Rs. 24,88,200/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from client deptt. vide letter No. CC/34 Dt. 19.1.2013.
- Design** Following provision has been made (for civil work only) in the estimate:-
 1. Providing and applying tack coat.
 2. 4 cm thick bitumestic sheet.
 3. Painting road surface marking.
- Specification** As per CPWD Specification 2009 vol I to II with upto date correction slip.
- WC Establishment** Shall be met out of contingencies.
- T. & P.** Shall be arranged by the contractor.
- Land** Available.
- Rate** By contract after call of tender.
- Method** Based on DSR-2012 with upto date correction slip.
- Time** Two months.
- Cost** Rs. 24,88,200/- i/c 5% contingencies.


 ASSISTANT ENGINEER (P)
 KARNAL CENTRAL DIVISION
 CPWD, KARNAL


 EXECUTIVE ENGINEER
 KARNAL CENTRAL DIVISION
 CPWD, KARNAL

Detail of Measurement

Work - Recarpeting of Board floor MIT Gate (from inside gate) to Apollo station Chowk via MIT Chowk at MIT Kankarbagh.

1/4th of the cost -

Kare gate to MIT Chowk $1 \times (10 \times 30.00 + 24.00) \times 7.00 = 2868.00$ sqm

MIT Gate Chowk to Apollo station Chowk $1 \times (15 \times 30.00 + 28.00) \times 7.00 = 3346.00$ sqm

7.147
5619.00 sqm
5620.00 sqm

4 cm thick bituminous sheet -

Alt. Service as shown @ 12.5620 sqm

Painting Road surface material -

2-8.300 sqm

AE/12/17

[Signature]

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State HARYANA

Branch KARNAL

DIVISION KARNAL CENTRAL

SUB-DIVISION KARNAL CENTRAL

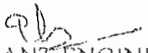
Name of Work : Recarpetting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.


Major Head	Minor Head	Detailed Head
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This preliminary cum detailed estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 15,44,100/- i/c 5% contingencies.

REPORT

History	This preliminary cum detailed estimate amounting to Rs. 15,44,100/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from client deptt. vide letter No. CC/34 Dt. 19.1.2013.
Design	Following provision has been made (for civil work only) in the estimate:- 1. Providing and applying tack coat. 2. 4 cm thick bitumestic sheet. 3. Painting road surface marking. 4. P/L bitumenous macadam for repair work.
Specification	As per CPWD Specification 2009 vol I to II with upto date correction slip.
WC Establishment	Shall be met out of contingencies.
T. & P.	Shall be arranged by the contractor.
Land	Available.
Rate	By contract after call of tender.
Method	Based on DSR-2012 with upto date correction slip.
Time	Two months.
Cost	Rs. 15,44,100/- i/c 5% contingencies.


ASSISTANT ENGINEER (P)
KARNAL CENTRAL DIVISION
CPWD, KARNAL.


EXECUTIVE ENGINEER
KARNAL CENTRAL DIVISION
CPWD, KARNAL.

NA/	Recarpetting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.
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[illegible]

Details of Measurements

note: Room/bedroom of records from Main approach road to Guest House
 and attached Guest House at 17/10/2018.

Removal of old of 1/2 of the work can be done.

Approximate Road to Guest House $1 \times (5 \times 30.00 + 5.00) \times 3.60 = 558.00 \text{ sqm}$
 Inside Guest House $1 \times 28.00 \times 12.00 = 336.00$
 Kitchen $1 \times 13.00 \times 3.50 = 45.50$
 Bath $1 \times (5 \times 30.00 + 5.00) \times 7.00 = 1085.00$
 Dlx/Rm. - 1/2 of the work $1 \times (4 \times 30.00 + 14.00) \times 3.60 = 482.40$
 Dlx/Rm. - 1/2 of the work $1 \times (4 \times 30.00 + 14.00) \times 3.60 = 482.40$
 Dlx/Rm. - 1/2 of the work $1 \times (4 \times 30.00 + 14.00) \times 3.60 = 482.40$

For 1/2 of the work $1 \times 2 \times 30.00 \times 3.60 = 216.00$
 Approx. for 1/2 of the work $1 \times 2 \times 30.00 \times 3.60 = 216.00$
 Dlx/Rm. - 1/2 of the work $1 \times (4 \times 30.00 + 14.00) \times 3.60 = 482.40$
 4 cm thick concrete slab $1 \times 2506.50 \text{ sqm}$

Qty. Same as Item No 1 attached (A) i.e. 2506.50 sqm

Qty. 2510.00 sqm

Painting 1/2 of the work

6.5. 152.00 sqm

1/2 of the work 6.5. 152.00 sqm

For 1/2 of the work

Front 1/2 of the work

Dlx/Rm. - 1/2 of the work

$1 \times (4 \times 30.00 + 14.00) \times 3.60 \times 0.75 = 36.18$
 52.38 sqm

55.00 sqm

AE/KK/17

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State : HARYANA

Branch : KARNAL

DIVISION : KARNAL CENTRAL

SUB-DIVISION : KARNAL CENTRAL


Name of Work : Recarpetting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7.8 at NIT, Kurukshetra.


Major Head	Minor Head	Detailed Head
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This preliminary cum detailed estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 17,91,300/- i/c 5% contingencies.

REPORT

History	This preliminary cum detailed estimate amounting to Rs. 17,91,300/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from client deptt. vide letter No. CC/34 Dt. 19.1.2013.
Design	Following provision has been made (for civil work only) in the estimate:- 1. Providing and applying tack coat. 2. 4 cm thick bitumestic sheet. 3. Painting road surface marking. 4. P/L bitumenous macadam for repair work.
Specification	As per CPWD Specification 2009 vol I to II with upto date correction slip.
WC Establishment	Shall be met out of contingencies.
T. & P.	Shall be arranged by the contractor.
Land	Available.
Rate	By contract after call of tender.
Method	Based on DSR-2012 with upto date correction slip.
Time	Two months.
Cost	Rs. 17,91,300/- i/c 5% contingencies.


ASSISTANT ENGINEER (P)
KARNAL CENTRAL DIVISION
CPWD, KARNAL


EXECUTIVE ENGINEER
KARNAL CENTRAL DIVISION
CPWD, KARNAL

SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
1	ROAD WORK					16
1.1	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:					16.3
1.1.1	On bituminous surface @ 0.50 Kg / sqm.	3830.00	sqm	29.00	111070.00	16.30.2
1.2	4 cm thick bitumastic sheet with hot bitumen of approved quality using stone chippings (60% 12.5mm nominal size and 40% 10mm nominal size) @ 2.60cum per 100 sqm and coarse sand at 2.60cum per 100 sqm of road surface and with bitumen @ 56 kg/cum. of stone chippings and at 128 kg/cum. of sand over a tack coat with hot straight run bitumen including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :					16.39
1.2.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt.	3200.00	sqm	346.85	1109920.00	16.39.1
1.3	Painting road surface marking with adequate no. of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.					16.48
1.3.1	New work (Two or more coats).	150.00	sqm	95.75	14363.00	16.48.1
1.4	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.					16.55
1.4.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	48.00	cum	6374.25	305964.00	16.55.1
	Sub-Total				1541317.00	
	Total				1541317.00	
	Add Cost Index @ 5.37% (157-149 / 149 x 100)				82769.00	
	Total				1624086.00	
	Add Contingencies @5%				81204.00	
	Total				1705290.00	
	Add Labour Cess @1%				17053.00	
	Total				1722343.00	
	Add VAT @4%				68894.00	
	Total				1791237.00	
	Say Rs. 17,91,300/-					
	AEC(D)					
	Executive Engineer Karnal Central Division CPWD, Karnal					

Notary's Mandate

Recapitulation of assets from Apollo's estate check to MIT
Gate via Hays Hotel and Hotel No 748 at MIT Cambridge.

P/ Apollo's Lake Gate

16.30.2

Apollo's estate check to Hays Hotel 1x (23x30.0 + 2.0) x 3.60 = 255.6.00

Hays Hotel to MIT gate 1x (5x30.0 + 2.6.0) x 3.60 = 633.60

1x Hays Hotel 748

For subleasing

1x 3830.00

16.39.1 9 cm thick brickwork sheet

16.38.7

Alt savings plan in @ market (4) 16.31.09.60

day 3300 gm

Painting road surface marking

16.48.1

1.5.

150.00

P/Laying 6.44m new road

16.55.1

for repair work 1x (5x30.0 + 2.6.0) x 3.60 x 0.75 = 47.52 cm

1x 48.00

AE/11/11

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State HARYANA

Branch KARNAL

DIVISION KARNAL CENTRAL

SUB-DIVISION KARNAL CENTRAL

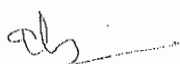
Name of Work : Recarpetting of road from Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.


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

This preliminary cum detailed estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 4,73,000/- i/c 5% contingencies.

REPORT

History	This preliminary cum detailed estimate amounting to Rs. 4,73,000/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from client deptt. vide letter No. CC/34 Dt. 19.1.2013.
Design	Following provision has been made (for civil work only) in the estimate:- 1. Providing and applying tack coat. 2. 4 cm thick bitumestic sheet. 3. Painting road surface marking.
Specification	As per CPWD Specification 2009 vol I to II with upto date correction slip.
WC Establishment	Shall be met out of contingencies.
T. & P.	Shall be arranged by the contractor.
Land	Available.
Rate	By contract after call of tender.
Method	Based on DSR-2012 with upto date correction slip.
Time	Two months.
Cost.	Rs. 4,73,000/- i/c 5% contingencies.


ASSISTANT ENGINEER (P)
KARNAL CENTRAL DIVISION
CPWD, KARNAL


EXECUTIVE ENGINEER
KARNAL CENTRAL DIVISION
CPWD, KARNAL

N/W : Resurpetting of road from Apollo Canteen Chowk to Y shape road via Open Air Theatre at NIT, Kurukshetra.

[illegible]

Boiler 8 to 1000000

the cable from Apple's Caravan to Y-Skate
 and the other the other at MIT Research.

P/APP/lyt file (cat)

16.30.2

$$\begin{aligned} \text{Apple's Caravan to Y-Skate} & 1 \times (6 \times 30.00 + 16.00) \times 3.60 = 705.60 \text{ h} \\ \text{Apple's Caravan to Y-Skate} & 1 \times (3 \times 30.00 + 9.00) \times 3.60 = 356.40 \text{ h} \end{aligned}$$

by 1070-1070-1070

16.39.1

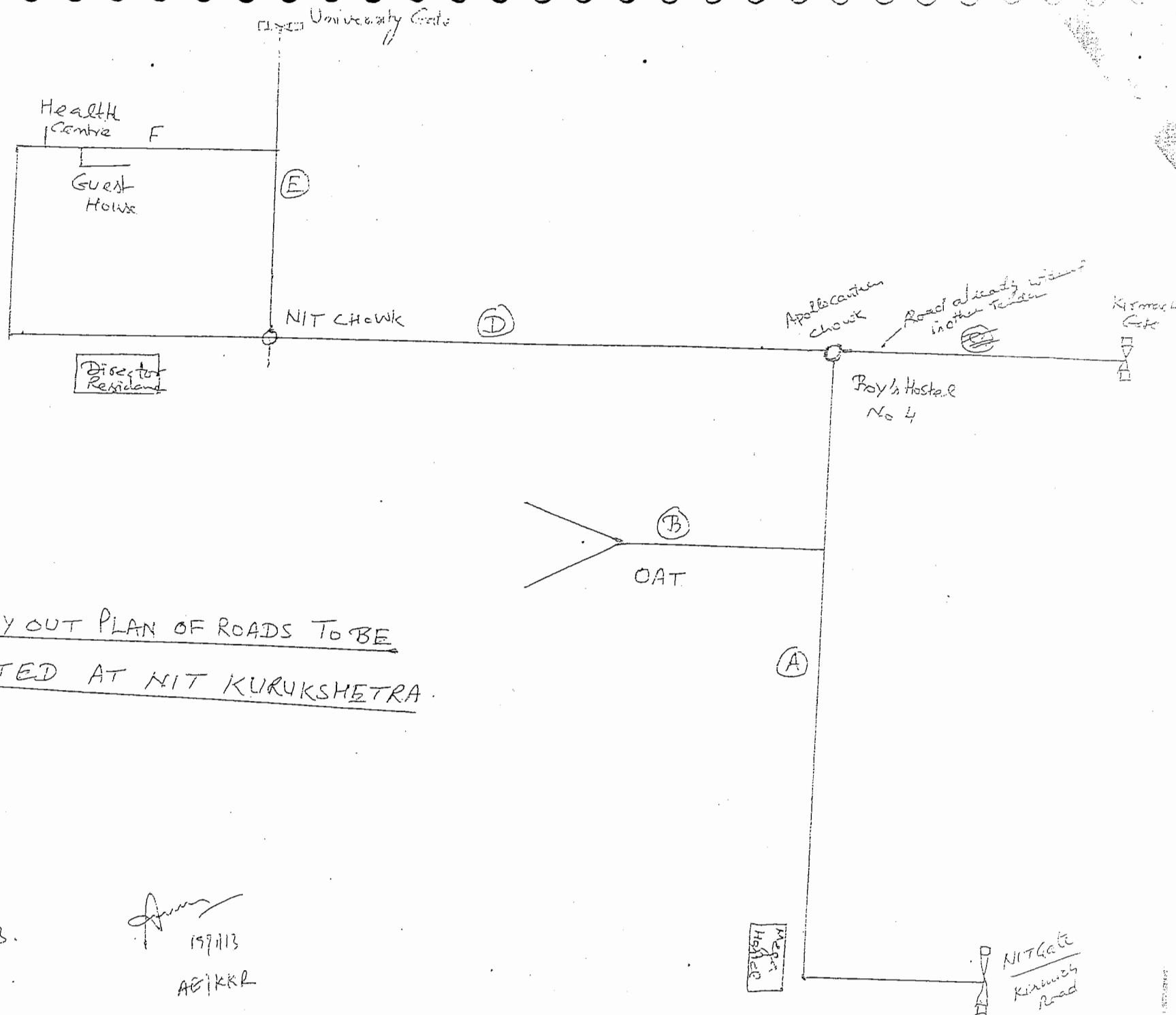
Apple's Caravan to Y-Skate

Apple's Caravan to Y-Skate

16.48.1

7.5-50-100

Apple's Caravan to Y-Skate



PART LAY OUT PLAN OF ROADS TO BE
CARPETED AT NIT KURUKSHETRA.

19/1/13.

19/1/13
 AE/KKR

NATIONAL INSTITUTE OF TECHNOLOGY
(INSTITUTION OF NATIONAL IMPORTANCE)
KURUKSHETRA

No/CC/34

Dated: 19/11/13

To

The Executive Engineer (Civil)
Karnal Central Division,
CPWD, 448 Subash Colony,
Karnal.

Subject: - Submitting estimate for providing 40mm thick premix carpeting on various roads at NIT, Kurukshetra.

As the 10th Convocation of NIT, Kurukshetra is scheduled to be held on 09-04-2013 which will be presided over by His Excellency President of India. It has been decided by the Competent Authority of NIT, Kurukshetra that 40mm thick premix carpeting is to be laid including filling pot holes and leveling course, if required on various roads in the Institute urgently. In this context, you are requested, to submit the following estimates immediately:

1. From NIT Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT Chowk.
2. Main approach road to Guest House and around Guest House roads.
3. Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8.
4. Apollo Canteen Chowk to Y shape road via Open Air Theatre.

The work of widening of road from Kirmich Road Gate to Hostel No. 4 Chowk has already been allotted to you and execution of the same be expedited.

An early action is requested please.

CC:

1. S.S. to Director for kind information of the Hon'ble Director please.
2. Executive Engineer, Construction Cell, NITK
3. Asstt. Engineer (Civil), NITK

Prof. I/c (E&C) for Information. 19/11/13
21/11/13

Dean (Estate)

21/11/13

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA -136 119

Time Bound

No. CC/CPWD/57/921

Dated: 15.02.2013

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

Subject: - Administrative approval & Expenditure sanction for Recarpetting on various roads at NIT, Kurukshetra.

Reference: MoU dated 20.12.2012 & approval of the Hon'ble Director on dated. 15-02-2013.

Kindly refer to your letter no. 20(142)KKM/2013/223 dated 28.01.2013. The administrative approval and expenditure sanction is hereby conveyed for the execution of recarpetting on various roads with the estimated amount as under:

Sr. No.	Name of Work	Amount REC (Rs. In Lacs)
1	Recarpetting of roads from NIT, Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT, Chowk at NIT, Kurukshetra.	Rs. 24.88 (Rs. Twenty Four Lacs and Eighty Eight thousand only).
2	Recarpetting of road from main approach road to Guest House and around guest house Roads at NIT, Kurukshetra.	Rs. 15.44 (Rs. Fifteen Lacs and Fourty Four Thousand only)
3	Recarpetting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.	Rs. 17.91 (Rs. Seventeen Lacs and Ninety One Thousand only)
4	Recarpetting of road from Apollo Canteen Chowk to Y shape road via open Air Theatre at NIT, Kurukshetra.	Rs. 4.73 (Rs. Four Lacs and Seventy Three Thousand only)

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

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)

Dean (Estate)

For Director

Speed Post

6/ka
16/2/13

NATIONAL INSTITUTE OF TECHNOLOGY

KURUKSHETRA -136 119

No. CC/CPWD/79

11553

Dated: 08/03/2013

To

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

Subject: - Widening of the road in front of Guest House along with the provision of kerbs from main road to Health Centre at NIT, Kurukshetra.

Reference: This office letter No. CC/CPWD/57/921 dated 15.02.2013.

In continuation of this office letter quoted under reference, the competent authority of the Institute has approved widening the road in front of Guest House along with the provision of kerbs from main road to Health Centre. It is, therefore, conveyed to you that this work be also included with the work of providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra as already allotted to your department.

The above work is of emergent nature and is to be completed before the visit of His Excellency the President of India on 09.04.2013.

Copy to:

1 SS to Director for the kind information of the Hon'ble Director.

[Signature]
8/3/13
Dean (Estate)
For Director
[Signature] 8.3.13 *[Signature]* 8/3/13

[Signature]
8/3/13

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

No. CC/CPWD/100/2037

Dated: 28/03/13

To

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

Subject: - Providing & laying Chequered tiles under the porch of Guest House at NIT, Kurukshetra.

During the visit of Guest House with Dean (P&D)/Acting Director has desired that the providing & laying the chequered tiles are required under the porch of Guest House as already provided in the porch of Newly Administrative Building. The above said work be completed before the 10th Annual Convocation of NIT, Kurukshetra which is scheduled to be held on 09-04-2013.

So, you are therefore, requested that the work of providing & laying the chequered tiles under the porch of Guest House at NIT, Kurukshetra be completed at the earliest.

It is also requested that the progress of work of re-carpeting be expedited.

[Signature]
28/3/13
P. Dean (Estate)
26-3-13
28/03/13

Copy to:

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

approval & Expenditure sanction for Providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra.

The Golden Jubilee Convocation (10th Annual Convocation) of NIT, Kurukshetra is scheduled to be held on 09.04.2013 which will be presided over by His Excellency, the President of India.

In this regard, it is mentioned here that an Administrative approval for Rs. 62,96,600/- lacs was conveyed to Executive Engineer, CPWD, Karnal vide this office letter No. CC/CPWD/57/921 dated 15.02.2013 being an emergent work.

The Executive Engineer, Karnal Central Division, CPWD, Karnal has requested in his letter No. 54(NIT), KCD/2012/456 dated 19.02.2013 to deposit the full amount of A/A & E/S being a small and urgent nature of work for which tender is in process. They have requested to release Rs. 62,96,600/- (Rupees Sixty two lacs ninety six thousand six hundred only).

It is pertinent to mention here that as per clause No. 4(a) & 4(b) of MoU, the client shall deposit funds in installments, in the first instance 33% of the sanctioned amount shall be deposited by the Client with the Executive Engineer, Karnal Central Division, CPWD, Karnal along with sanction as an advance in two installments as under:

(a) First installment of 16.5% shall be deposited by the client immediately after the accord of A/A & E/S of the work, thereafter tender shall be invited by the CPWD.

(b) Next installment of 16.5% shall be deposited immediately after receipt of tenders by CPWD and thereafter the tender shall be accepted by CPWD. Thereafter the expenditure incurred shall be reimbursed in full through regular bills. The deposit with CPWD shall not fall below 10% of the estimated cost at any point of time during execution of the work. This portion of deposits shall be retained for adjustment against the last portion of the estimated expenditure but the Executive Engineer, CPWD, Karnal has demanded full amount of work as detailed given below being a emergent & urgent nature of work.

Sr. No.	Name of work	Estimated amount
1	Recarpetting of roads from NIT, Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT, Chowk at NIT, Kurukshetra.	24,88,200/-
2	Recarpetting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.	15,44,100/-
3	Recarpetting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.	17,91,300/-
4	Recarpetting of road from Apollo Canteen Chowk to Y shape road via pen Air Theatre at NIT, Kurukshetra.	4,73,000/-
	Total	62,96,600/-

For this matter, powers and functions of the Building & Works Committee as per NIT STATUTES under clause 13(2) is reproduced as under:

"if in the opinion of the Chairman of the Building and Works Committee, any emergency has arisen which requires immediate action to be taken, he shall take such action and report the same to the Building and Works Committee and the Board at their next meeting".

In view of the above, if agreed, the Hon'ble Director and Chairman Building & Works Committee may accord the necessary approval to transfer the funds of Rs. 62,96,600/- (Rupees Sixty two lacs ninety six thousand six hundred only) for providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra so that the work may be executed by CPWD and completed before the visit of his Excellency the President of India.

Submitted for approval please.

[Signature]
22-02-13
J.E. (C)

[Signature]
22/2/13
Accountant

[Signature]
22-2-13
Head Clerk

[Signature]
22/02/13
Executive Engineer

[Signature]
22/2/13
A.E.(Civil)

Prof. I/C (E & C) *[Signature]*
24/2/13

Dean (estate) *[Signature]*
20/2/13

D.R. (Accounts) *[Signature]*
20/2/13

Registrar *[Signature]*
The above proposal at 'A' may please be approved.
26/02/13

[Signature]
Dean (estate)

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

No./CC/74

Dated: 05-03-2013.

Subject: - Release of payment for providing 40mm thick premix carpeting on the various roads at NIT, Kurukshetra to be executed by CPWD, Karnal.

Please find enclosed herewith a copy of an approval of Hon'ble Director for release of Rs. 62,96,600 (Rupees Sixty two lacs ninety six thousand six hundred only) in favour of Executive Engineer, CPWD, Karnal Central Division, 448 Subash Colony, Karnal. The List of works to be executed by CPWD is as under:

Sr. No.	Name of work	Estimated amount
1	Recarpetting of roads from NIT, Gate (toward KUK Gate) to Apollo Canteen Chowk via NIT, Chowk at NIT, Kurukshetra.	24,88,200/-
2	Recarpetting of road from main approach road to Guest House and around Guest House Roads at NIT, Kurukshetra.	15,44,100/-
3.	Recarpetting of road from Apollo Canteen to NIT Gate via Mega Hostel and Hostel No. 7, 8 at NIT, Kurukshetra.	17,91,300/-
4.	Recarpetting of road from Apollo Canteen Chowk to Y shape road via pen Air Theatre at NIT, Kurukshetra.	4,73,000/-
Total		62,96,600/-

Please arrange to release a sum of Rs. 62,96,600 lacs (Rupees Sixty two lacs ninety six thousand six hundred only) by demand draft under intimation to Construction Cell for record.

DA As stated.

D.R. (Accounts)

26-3-13

[Signature]
5/3/13
Dean (Estate)

5-3-2013

5-03-13

Item No. 17.6

To consider & approve the Cost Estimate for provision of permanent & temporary Huts for security Guards at various locations in the Institute.

The Security Officer through Prof. I/C (Security) vide his letters No. Sec/01/191 dated 14.03.2012, No.Sec/02/236 dated 17.08.2012 and No. NITK/SECURITY dated 08.06.2013 has requested that huts for security guards be provided at various locations in NIT Campus. The matter was discussed in the High Power Committee meeting held on 28.02.2013 & 14-05-2013 and it was decided to construct 9 nos. permanent type huts with washroom facility and 6 nos. temporary huts. Accordingly, Executive Engineer, Construction Cell has prepared cost estimate for 9 nos. permanent type huts for an amount of Rs. 20,73,555/- and 6 nos. temporary huts for an amount of Rs. 9,09,186/-.

The B&WC may consider & approve the cost estimate amounting to Rs. 20,73,555/- & Rs. 9,09,186/- for the above works.

SECURITY SECTION
NATIONAL INSTITUTE OF TECHNOLOGY
(Institution of National Importance)
Kurukshetra- 136119

No. Sec-/01//9/

Date: - 14-03-12

Sub: Provision of Huts for Security Guards

The Security posts at different locations in NIT Campus are manned on 24 hours basis. The following points have been identified where huts/shads for Security Guards are required against the safeguard of cold, hot and rainy weather.

- | | | |
|----|--------------------------------|----------------------------|
| 1. | At parking near Sports Complex | 01 No. |
| 2. | Behind MBA Block | 01 No. |
| 3. | Hostel No. 1 to 9 | 09 No. (01 in each Hostel) |
| 4. | Barrier of Hostel No. 4 | 01 No. |

It is requested that at these points, shads/huts with two chairs (Fixed) may please be provided at the earliest. Further, it is requested that the present huts at Girls hostel may be modified and their entry gate may be provided from outside of the hostel boundary. This has the concurrence of The Hon'ble Director.

Prof.-In-Charge (Security)


Security Officer

Chairman (E, C & EM)

SECURITY SECTION
NATIONAL INSTITUTE OF TECHNOLOGY
(Institution of National Importance)
Kurukshetra- 136119

No. Sec-01/ 236

Date: -17-08-12

Sub: Provision of Huts for Security Guards

This is with the reference of our letter No. Sec/01/191 dated 14-03-12.
(Copy attached)

In addition to the previous mentioned posts the following points also have been identified for the security posts.

- 1) Rear gate of Hostel No. 7 & 8
- 2) Near Bijali Gate
- 3) In domestic area near old NIT market and "D" type Qtrs.
- 4) At Tubewell No. 5 crossing.

Prof-in-charge (Security)


Security Officer

Chairman (EC & EM)

Pl. discuss

Dr. B. R.

A.E. (C) & J.E. Civil to
attached P. Estimate for discussion
on discussed

31/8/12

31/8/12

Pl. discuss

Sh. Lalit Sharma
J.E. (C)

31/8/12

31/8/12

DP. 11/6/13

NIT. KURUKSHETRA

By No.	626	Date	11/6/13
DPD	DAC	DAM	CVO
M	Co	Ph	Ch
CW	SW	PC	PS
CCN	PCE	PRO	LMO
CA	BO	DS	PIS
			PC

SECURITY SECTION
NATIONAL INSTITUTE OF TECHNOLOGY
(Institution of National Importance)

Kurukshetra- 136119

No. NITK/SECURITY

To,

The chairman

(E,C &EM), NIT kurukshetra

Pl. prepare the estimate for emergency BWC meeting
Date: 08/06/2013
13/6/13

Imp. Dean (Estate)
13/06/13
for mca. pl.

Sub:

Provision of Huts for Security Guard

The Security Posts at different Locations in NIT Campus are Manned on 24 hours basis. The following points have been earmarked where temporary huts/shads for security guards are required against the safeguard of cold, hot and rainy weather.

- | | |
|-----------------------------|--------|
| 01. Health Centre | 01 No. |
| 02. Guest House | 01 No. |
| 03. Kirmach Gate no. 02 | 01 No. |
| 04. Hostel no. 09 | 01 No. |
| 05. Faculty house parking | 01 No. |
| 06. MBA Block | 01 No. |
| 07. Dayal pur gate | 01 No. |
| 08. CA Type Qtr, near shops | 01 No. |
| 09. PWD Gate | 01 No. |
| 10. Girls Hostel | 01 No. |

[extension of attach bathroom]

11/6/13

11. Swimming Pool 01 No.
12. Near BB Type qtr no 01, TIRAHA 01 No.

It is requested that at these points, shads/huts with two chairs may please be provided at the earliest. Further, It is requested that the present huts at Girls hostel required modification and extension of attach bathroom .


Security officer
NIT , kurukshetra

Copy to:

PA to Hon'ble Director for information please

Subject: Minutes of High Power Committee meeting held on 28.02.2013 & 14.05.2013 to discuss various issues relating the development/ construction works under Estate Section/Construction Cell at NIT, Kurukshetra.

The Meetings of High Power Committee were held on 28.02.2013 at 05:00pm & 14.05.2013 at 12:00 Noon to discuss the various issues relating the development/ construction works at NIT Kurukshetra under the Chairmanship of Prof. V.K. Arora, Dean (P&D). Minutes of meeting are placed in the file..

Submitted for approval please.

[Signature]
5/6/13
Dean (Estate)

Registrar.

The minutes of the above meetings are enclosed in the file for kind approval please.

Director

[Signature]
05/6/13

[Signature]
05/06/13

Subject: Minutes of High Power Committee meeting held on 28.02.2013 to discuss various issues related to Estate Section.

A meeting of High Power Committee was held on 28.02.2013 at 05:00PM to discuss the various issues related to various development works.

Following were present:

1.	Dean (P & D)	Chairman
2.	Dean (FW)	Member
3.	Dean (Estate)	Member
4.	Prof. I/C (S&C)	Special Invitee
5.	Prof. I/C (E&C)	Member
6.	Prof. I/C (EM)	Member
7.	Executive Engineer	Member Convener
8.	Asstt. Engineer (Civil)	Special Invitee
9.	J.E. (C)	Special Invitee
10.	J.E. (E)	Special Invitee

Following issues were discussed and resolved as under:

1. **Fixing the priority of works for the financial year 2013-14.**

In the 16th B&WC meeting held on 19.11.2012, 15 Nos. works were placed in the meeting. High Power Committee during its meeting fixed the priorities of 8 Nos. works for execution during the financial year 2013-14. The list of works is as under:

- (i) Convocation Hall (3000 capacity) at NIT, Kurukshetra.
- (ii) Provision of Aviation Light & Lightening conductor in the Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.
- (iii) Underground static water tank of 1.5 lakh liter capacity for fire-fighting purpose in Mega Boys Hostel at NIT, Kurukshetra.
- (iv) Replacement of existing LT Panels with MCB's in the Institute at NIT, Kurukshetra.
- (v) Replacement of existing Electrical wirings in instructional building at NIT, Kurukshetra.
- (vi) Provision of DG power backup at various locations in the Institute covering instructional buildings and related facilities at NIT, Kurukshetra.
- (vii) Provision of DG power backup in boys & girls hostels at NIT, Kurukshetra.
- (viii) Provision of lifts for persons with disabilities (PwD) at various locations in the Institute.

2. **Demands of Teachers Union regarding extra toilet, bathrooms and providing & fixing of tiles.**

After detailed discussion, it was resolved that an extra toilet be provided in DB & DA type houses with washbasin. Vitrified tiles be provided on the CC flooring, as the CC flooring has been damaged & is uneven. External/Internal plastering has been damaged due to weathering condition, so plaster be provided on the external/internal walls where ever necessary. Item be placed in the next B&WC meeting for approval.

3. **Request from Librarian for property counter facility for students, the expansion of library building & air conditioning of library.**

Request was discussed in detail and it was resolved by the committee that the library be made air conditioned. Item be placed in the next B&WC for approval after getting air conditioning estimate from Executive Engineer, CPWD, Karnal. *However, the request of property counter & expansion of library shall be taken up in the next High Power Committee meeting on 12/6/13*

4. **Shifting of boundary wall of Director Residence, NIT, Kurukshetra.**

It was resolved that the boundary wall on the east side be shifted outside suitably as per site requirement. *Kimh*

5. **Fire fighting in the Institute.**

It was resolved that estimate for fire fighting in the Instructional building, hostel (Boys & Girls) be taken from Executive Engineer, CPWD, Karnal and the item be placed in the next B&WC meeting.

6. **Replacement of existing community dustbins with portable dustbin.**

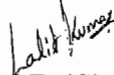
The item was deferred.

7. Any other items:

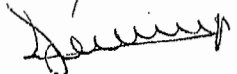
- (i) NS item for providing hollow section M.S. tube & fixing frames, brackets, gates etc. for covering open G.I. C.I. pipes for 20 Nos. Prof. & 20 Nos. Asstt. Prof. Multi storeyed staff housing at NIT, Kurukshetra was discussed. It was decided that NS rates submitted by the agency Apurvakriti Infrastructure Pvt. Ltd. be compared with market rates. Further, NS rates be recommended to the Hon'ble Director for approval.
- (ii) Construction of additional floors for Computer Engineering Deptt. and provision of connecting corridor was discussed in the meeting & it was resolved that requirement of additional floor be taken from other departments also for future expansion.
- (iii) It was decided that the work of renovation of old building of Health Centre be also taken up.
- (iv) Provision of Temporary/Permanent type huts for security guards were discussed & it was resolved that 15 Nos. temporary huts be provided and item be placed in the next B&WC meeting for approval.
- (v) The matter for allocation of space for ATM to the AXIS Bank in the old Bank site/Security office was discussed & it was resolved that security office be shifted in the reception room of Old Administrative Block and the room of security office be allocated for ATM.
- (vi) The work of connectivity between the rest room of Director and Board Room be also taken up.

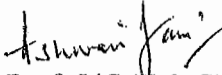
Meeting ended with a vote of thanks to the Chair.


Executive Engineer  Asstt. Engineer (Civil) 

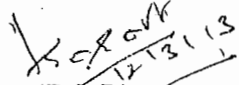

J.E. (C)

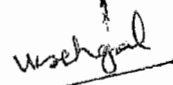

J.E. (E)


Prof. I/C (S & C)

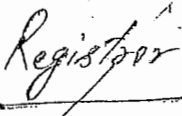

Prof. I/C (E & C)

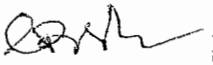

Prof. I/C (EM)

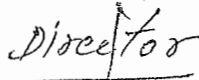

Dean (B & D)


Dean (FW)


Dean (Estate)


Registrar




Director


08/6/13

A meeting of High Power Committee was held on 14.05.2013 at 12:00 Noon to discuss the various issues related to development/construction works in NIT Kurukshetra.

Following were present.

- | | | |
|-----|---------------------------|-----------------|
| 1. | Dean (P & D) | Chairman |
| 2. | Dean (FW) | Member |
| 3. | Dean (Estate) | Member |
| 4. | Prof. I/C (E&C) | Member |
| 5. | Prof. I/C (EM) | Member |
| 6. | Executive Engineer | Member Convener |
| 7. | Presidents Sports (Girls) | Special Invitee |
| 8. | Asstt. Engineer (Civil) | Special Invitee |
| 9. | J.E. (C) | Special Invitee |
| 10. | J.E. (E) | Special Invitee |

Following issues were discussed and resolved as under:

1. **20 Nos. Prof. & 20 Nos. Asstt. Prof. Multi Storeyed staff Houses**

a) Following items including NS items were approved.

1. MS tube covering for outside exposed CI pipes as per drawing submitted by the Architect.
2. Provision of aluminum frame with SS wire-mesh.
3. Provision of mono-block pumps of 25m head for lifting water from underground water tank to terrace water tank.
4. Injection grouting for water proofing of underground water tank and RCC water tank on terrace.
5. Provision of stainless steel pipe in cup board.
6. PVC covering on MS handrail on staircases.
7. Provision of frosted glass in bath room.
8. Exterior emulsions paint/snowsum on boundary wall.
9. Power supply of boundary lights, corridor lights, ground floor parking lights, staircase lights & lifts be connected to HT/LT line.
10. Provision of looking glass in dressing room be made.
11. The executing agency may be directed to submit their rates for NS items and after comparing with the market rates same may be got approved from the competent authority.

b) Extension of time limit for completion of project.

M/S Apurvakriti Pvt. Ltd. Noida, vide their letter No. -AIPL-NIT/KKR-251 dated 22-04-2013 has requested to extend the time limit upto 30-06-2013, due to execution of following additional items of work which were decided from time to time.

1. Additional woodwork.
2. Additional underground water tank for firefighting arrangement & else.
3. Work of boundary wall as per site requirement.
4. Covering of CI drain pipes by MS tubes.
5. Aluminum frame with SS wire-mesh.


Additional time is required in execution of these additional items of work. Further, completion of work of installation of two lifts is August 2013 and some civil work needs to be done simultaneously during lift installation.

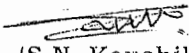
Keeping in view all the above, the High power committee recommends to extend the time limit for completion of work to 30.06.2013.

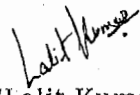
2. There is need of replacement of glass in doors of dining hall at Ground Floor with pre-laminated decorative board in Mega Boys Hostel for safety purpose. The same was approved in the meeting.
3. Provision of water proofing treatment of existing terrace/Mud Pushka and concreting/repair of parapet coping and balconies is required in teaching & non-teaching houses. Also, to prevent dampness in houses, plastering of external walls is required. The committee recommends to execute these items of work.
4. The work of covering of graded seating arrangement in Open Air Theatre as approved in 16th B&WC meeting held on 19.11.2012, which is to be executed by CPWD be taken up on priority basis.
5. The work of resurfacing & widening of existing roads in residential


6. The matter of providing Temporary & Permanent Security Huts at various locations of the Institute was discussed. It was decided to construct 9 permanent huts with washroom facility and 6 temporary huts. Further, furniture, telephone, fan/light facility be provided to the security personnel.
7. It was decided that a peripheral road along the boundary wall of the institute be constructed for security and maintenance purpose. An agenda for the same be taken to B&WC for approval.
8. It was decided to principally approve the proposal of bulk supply connection in residences in the campus and street light similar to institutional area.
9. There is a need to revise House Allotment Rules for faculty and non-faculty due to construction of 20 Nos. Prof. & 20 Nos. Asstt. Prof. Multi Storeyed staff Houses & restructuring of positions of non-teaching employees. Hon'ble Director be requested to constitute a committee for the purpose.
10. The committee decided that the parking sheds removed from Guest House be re-fixed in Health Centre and existing parking sheds be shifted suitably.
11. The committee discussed and approved paving of parking area of Health Centre by interlocking paver blocks.
12. There is a need of providing parking sheds for vehicles in the parking area of Golden Jubilee Administrative Building. The committee approved the same and decided to reserve parking lots for Deans & officers.
13. Swimming Pool constructed by CPWD is in the process of being taken over. Further, it shall be handed over to the sports section of the Institute after rectification of defects by CPWD. President Sports was requested to move the case of engagement of coach & life guards for functioning of the Swimming Pool.
14. It was decided to provide intercom telephone connection at all the residences of faculty & officers of the Institute.
15. Defect liability maintenance period of lifts in Golden Jubilee Administrative Building has already expired & for the lifts in Mega Boys Hostel will expire on 31-08-2013. Periodical maintenance of lifts is essential for smooth operation of the lifts. Hence, it was decided to award annual maintenance contract to a Company/Agency for proper maintenance & operation of lifts.
16. It was also decided that construction of a small stretch of road to residences of Health Centre be executed through CPWD chargeable to construction of parking lots.
17. Provision of connectivity from Director Office to Board Room in Golden Jubilee Administrative Building.

Meeting ending with the thanks to the Chair.


(A.L. Kamboj)
Executive Engineer



(S.N. Kaushik)
A. E. (Civil)


(Lalit Kumar)
J.E. (C)



(Satinder Pal)
J.E. (E)

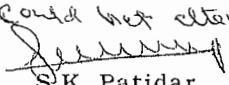

(Ratna Dahiya)
President Sports (Girls)

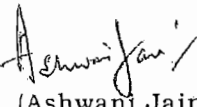
(on leave)
P.C. Tiwari
President Sports (Boys)

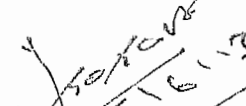

(Ashwani Sharma)
Prof. I/C (EM)

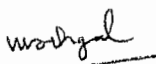
(on leave)
(Anil Dahiya)
Prof. I/C (H&L)

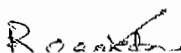

(K.K. Singh)
Dean (Estate)


S.K. Patidar
Prof. i/C (S&C)


(Ashwani Jain)
Prof. I/C (E&C)

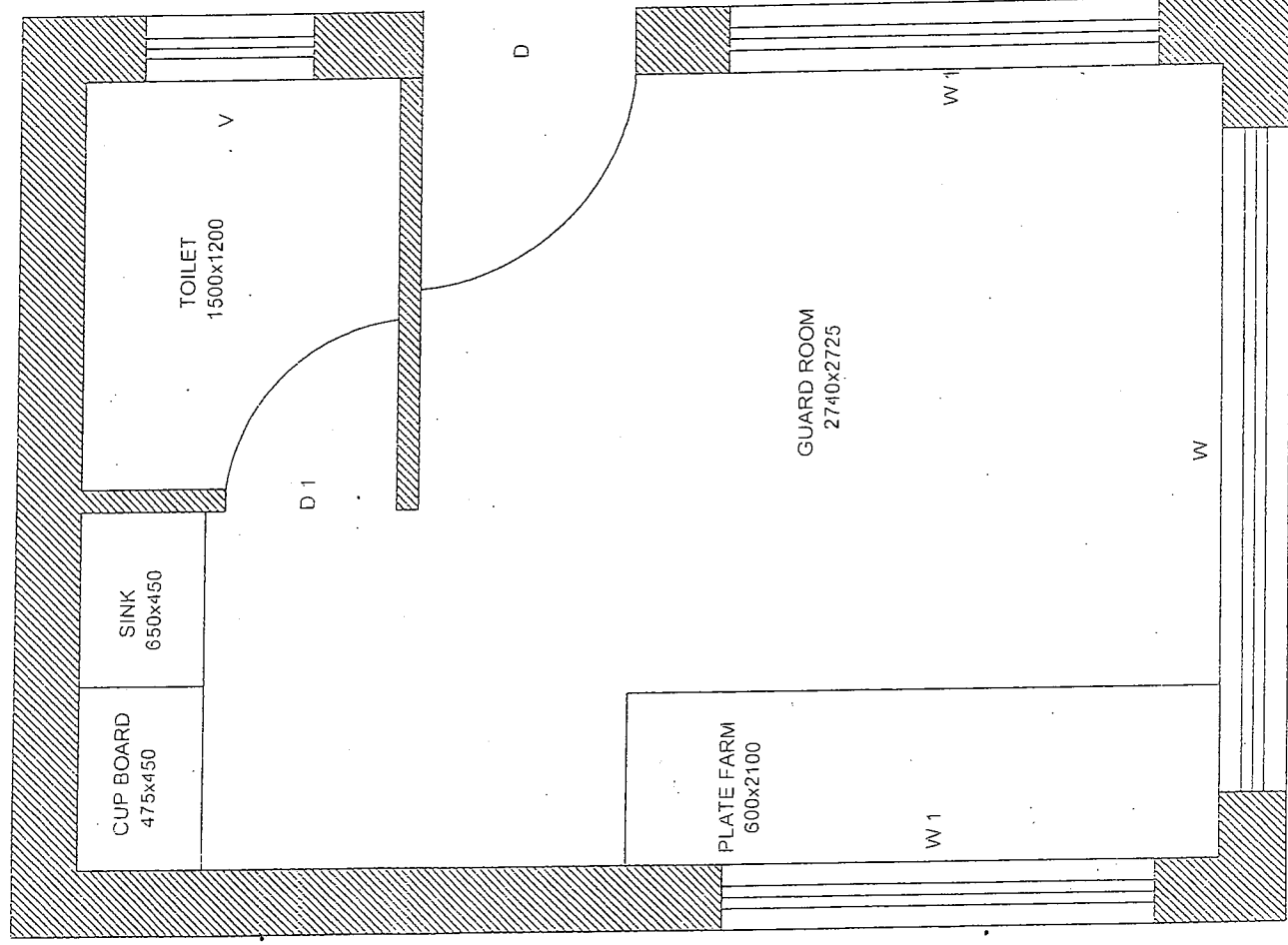

(V.K. Agrawal)
Dean (P&D)


(V.K. Sehgal)
Dean (FW)


R. K. Singh

Rough Cost Estimate For Construction of Security Guard Room (masonry) at NIT Kurukshetra				
Sr. No.	Area	Unit	Plinth Area Rate (PWD B & R 2010)	Total
1	Plinth Area 3.20 x 4.50=14.40	Sq. mtr	8780 Per Sq. mtr	126432
2	10% P. H. Installations to the building cost			12643
3	5% P. H. Estate Services			6322
For Approach Road				
4	3.23 x 5.00=16.15	Sq. mtr	900 (For Rigid)	14535
5	Electrical Installation Plinth Area 3.20x 4.50=14.40	Sq. mtr	400 Per Sq. mtr	5760
			Total	165692
	Add Escalation @ 35% to the total cost i.e. 165377			57992
				223684
	Add 3% Contingency			6711
	Total Cost for 1 No. Guard Room		Total Cost	230395
	Cost for 9nos. Guard Room (9 x 230395)		G. Total Cost	2073555

GUARD ROOM PLAN NIT KKR



D 750x2100
 D1 600x2100
 V 450x450
 W 2280x1200
 W1 1420x1200
 NOTE: All Dimensions
 are in MM

Handwritten signature

Handwritten text: -66-

**Rough Cost Estimate For Construction of Security Guard Room Portable with M.S. & G.I.
Sheet at NIT**

Sr. No.	HSR No.	Description	Qty	Unit	Rate	C.P.	Total Rate	Amount
1	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders grills, grating frames, window guard iron doors openable of fixed staircase of parapet or any other type of railing, gates and tree guards etc. including cost of screws and welding rods or bolts & nuts complete fixed in position. FR=1040.35	4	Qtl	1040.35	325	4421.488	15475.21
2	NS	M.S. Sheet	617	KG	70	0	70.000	43190.00
3	17.65 (a)	Providing and fixing medium density fibre board (MDF) interior grade in partitions including fixing to frames backing or studding with screws, complete.	37	Sqm	243.20	250	851.20	31494.40
4	18.16	Providing and fixing G.I. sheet 0.80 mm thick garage / mumty doors, with 40mm x 40mm x 6mm angle iron frame with diagonal braces, 3mm thick gusset plates at the junctions, hooks at the top and 25mm dia, pulleys, & T-iron 50mm x 50mm x 6mm guides at bottom including locking arrangements with handles & pintles etc. complete.	4	Sqm	424.00	325	1802.00	7208.00
5	18.30	Supplying and fixing glass panes including special metal sash putty of approved make						0.00
	(b)	glass panes 4 mm thick upto 40 sq dm areas. FR=115.40	4.50	Sqm	115.40	325	490.45	2207.03
	30.41(iv)	Providing and fixing in position best Indian make lavatory suites consisting of:						0.00
		Lavatory in vitreous chinaware size as given below (to the approved of the Engineer-in-charge) including china plug for tap hole where necessary.					0.000	0.00
		RS or CI brackets for building in to walls including painting.						0.00
		32 mm CP brass waste with CP brass chain and rubber plug.						0.00
		15 mm CP brass screw down pillar tap with jamnuts or couplings best design (as approved by the Engineer-in-charge)						0.00
		All fittings best indian make and to the approved of the Engineer-in-charge.						0.00
		All brass work chromium plated and complete in all respects including cutting and making good the walls floors and painting of fittings etc.						0.00
		White size 550mm x 400mm with one no. pillar tap.	1	Each	407.00	250	1424.50	1424.50
6	30.45	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	1	Each	92.00	250	322.00	322.00

E/R.
NS

A.F. (C)

Indal / (C)

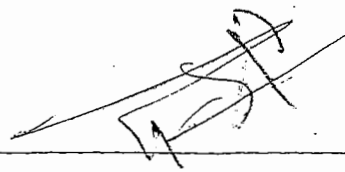
30	...	Providing and fixing in position 32mm dia. G.I waste pipe embedded in wall up to floor level complete as required by the Engineer-in-charge.	1	Each	98.00	250	343.00	343.00
30.50		Providing and fixing in position best Indian make C.P brass bottle trps 32mm diameter	1	Each	92.00	250	322.00	322.00
30.67		Providing and fixing in position best Indian make paper holder fixed into wall with C.P brass screws complete in all respects including cutting & making good the walls etc.						0.00
(a)		C.P brass	1	Each	27.50	250	96.25	96.25
30.70		Providing and fixing in position best Indian make soap dish fixed into wall with C.P brass screws complete in all respects including cutting & making good the walls etc						0.00
(a)		C.P Brass						0.00
(i)		Soap dish large	1	Each	59.00	250	206.50	206.50
30.73		Providing and fixing in position best Indian make coat & hat hooks fixed in to wall with C.P brass screws and rawl plugs etc.complete including cutting and making good the walls etc.						0.00
(a)		C.P Brass						0.00
(ii)		Two way	2	Each	43	250	150.50	301.00
30.75		Providing & fixing in position 15mm i/d C.P brass bib cocks of best quality (as required by te Engineer -in - Charge)						0.00
(c)		Bib Cocks	1	Each	100	250	350.00	350.00
30.83		Providing and fixing in position best Indian make C.P brass inlet connection 15mm with 375mm pipe & CP brass nuts.	3	Each	11.50	250	40.25	120.75
30.89		Providing and fixing HCl floor trap ISI marked of the self cleaning design with C.P brass hinged grating with frame with or without vent arm & including cement concrete 1:2:4 under and around the floor trap where requird up to floor level complete in all						0.00
(a)		With 75mm internal dia outlet	2	Each	105	300	420.00	840.00
NS		Providing, testing and fixing G.I pipe 'B' class medium duty including cost of specials such as Tee, elbow, bends etc. and threading inside the building & Ground.						0.00
a.		15mm i/d	5	Mtr	150.00		150.00	750.00
b.		20mm i/d	2	Mtr	200.00		200.00	400.00
c.		25mm i/d	0.5	Mtr	250.00		250.00	125.00
NS		Providing and fixing in position best Indian make (to the approval of Engineer-in-charge) Single trap symphonic European type white water closet suit consiting of :-	1	Each	3800.00		3800.00	3800.00
Total Rs/							108975.63	
Add Escalation 35 %							Say	
							38141.47	
							Total	
							147117.10	
							Add Contingencies 3%	
							4413.51	
							Grand Total	
							151530.62	
							Say Rs.	
							151531.00	
Total Estimate for 6 Nos. temporary huts portable type for security guards					151531.00	x	6	= 909186.00

F.R.

1.5.10

1.5.10



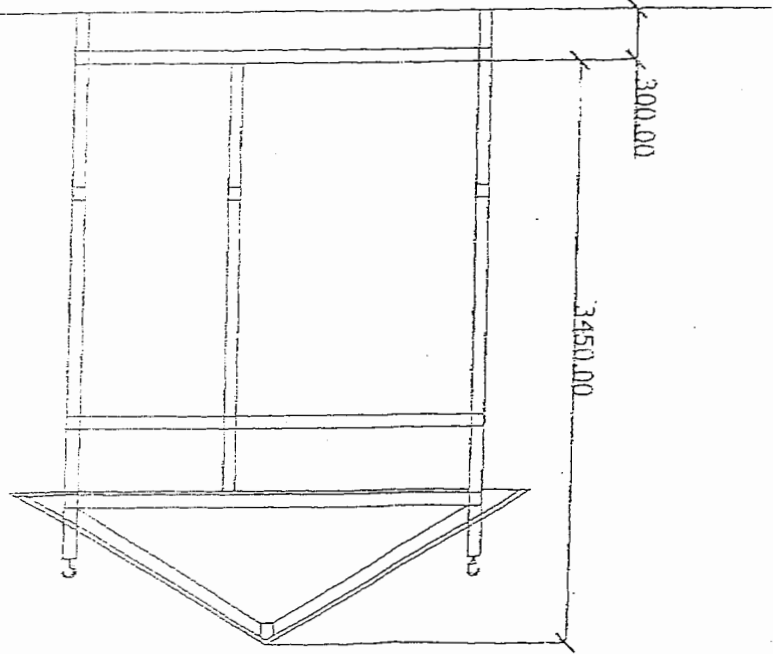


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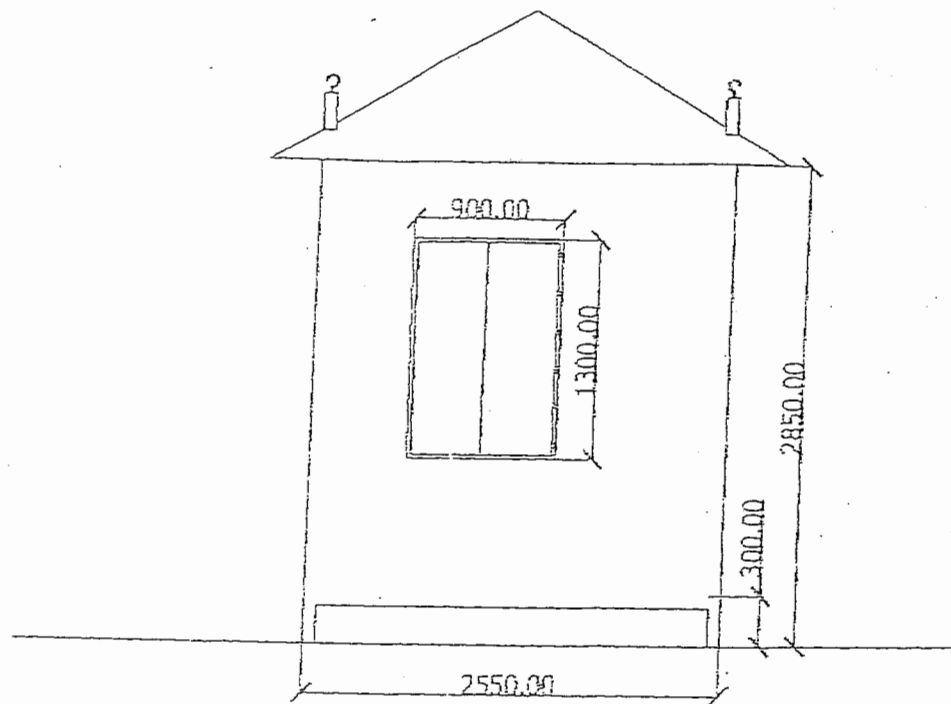
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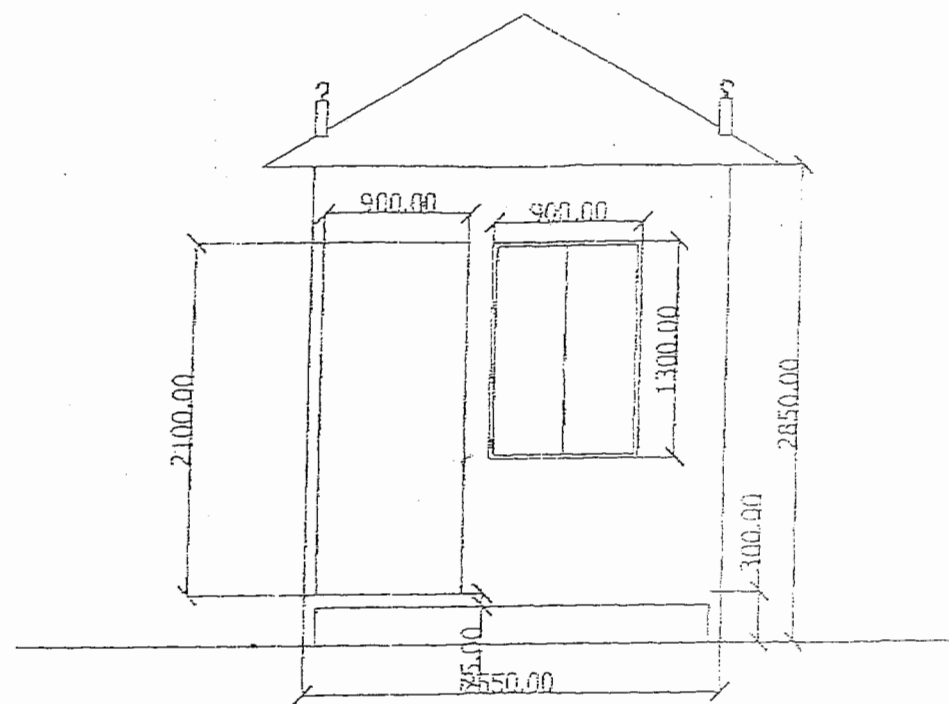
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Kund. Hth.
Gr. Kk. - 8 Monate
01744238050



FRONT ELEVATION



ELEVATION LEFT SIDE

2

Ben

R.E.

A.E. 10

Latet House

The matter was discussed with SAC member on 4 April 2013. SAC feels that since it is a long pending requirement of the department, funds may pl. be made available from appropriate Head by the competent authority.

02/4/13
Jain

DR (Accounts):

It is noted to send the requisition to estate Dept. for filing works in Lab. Because we usually allocated bill amount to estate Dept for renewal condition works in B.A. etc.

21/4/13
Jain

HOD, Chem

The request may pl. be considered

03/4/13
Jain

Dean (Estate):

The matter may be be discussed in High Power Committee, so that can may be forwarded to BWC

11/4/13
Jain

It is decided to put up in High Power Committee

12/4/13
Jain

13/4/13
Jain

DEPARTMENT OF ELECTRICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

No. EED/2012/ 2449

Dated: 1.8.2012

Subject: Fixing of floor tiles in faculty rooms/Labs. of Electrical Engg. Deptt.

The condition of floor of the room No. room No.E-222, E-314 and all Labs. in Elect. Engg. Deptt. is very bad. It is very difficulty to clean it daily. You are requested to make arrangement to fix the tiles in the above room as early as possible.

E/O.

EA-1

*As the estimated cost of work
needs to be approved by BOWC.*

(Lillie Dewan)
1/8/12
HOD

Subject:- Renovation work of Chemistry Deptt. Laboratories and Provision of tiles in some class rooms including Room No. E-222 (Audio Visual Aid Center) of Electrical Engineering Deptt., NIT, Kurukshetra.

PUC - 1

The PUC dated 22.05.2012 received from Chemistry Deptt. through HOD regarding the preparing of estimate of renovation work of laboratories & office rooms in Chemistry Deptt.

PUC - 2

The PUC dated 07.05.2012 received from Elect. Engg. Deptt. through HOD regarding the preparing of estimate of renovation work of E-222 (Audio Visual Aid Center), Class Rooms & Labs.

In view of above the rough cost estimate for providing & fixing of vitrified tiles of size 600 x 600mm for the subject cited above.

PUC - 1 for amounting to Rs. 3,45,000.00

PUC - 2 for amounting to Rs. 14,01,544.00

Total 17,46,544.00

It is therefore, requested that the Hon'ble Director may accord approval to put the above work before the Building & Works Committee in its ensuing meeting.

Submitted for approval please.

[Signature]
J.E.-II (C)

Estate Officer

[Signature]
30/5/12

Prof. I/C (E & C)

[Signature]
31/5/12

Chairman (E, C & EM)

[Signature]
7/6/12

Registrar

The above proposal may be placed as an agenda item in the next B & W meeting.

Submitted please

[Signature]
09/06/12

Director

[Signature]

17/7/12

[Signature]

EA!

[Signature]
17/7/12

Director's Office
Received on 09/06/12
Time 11:00 P.M.
NIT, KURUKSHETRA.

Rough cost estimate for providing and fixing of floor tiles in E-222, Class Rooms, Labs of Electrical Engineering Department, NIT, Kurukshetra.

Sr. No.	HSR Item No.	Description	Qty.	Unit	Rate	Amount
1	14.89	Providing and fixing vitrified tiles of size 600 x 600mm of approved make in flooring laid in any pattern as specified over bases of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note: Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT & JOHNSONS.	1516.33	Sqm.	924.30	1401544.00
					Total	1401544.00

Permit
19/5/12
J.E.C.

High cost estimate for providing and fixing of floor tiles in Labs & office rooms in Chemistry Department, NIT, Kurukshetra.

Sl. No.	HSR Item No.	Description	Qty.	Unit	Rate	Amount
1	14.89	Providing and fixing <u>vitified tiles</u> of size 600 x 600mm of approved make in flooring laid in any pattern as specified over bases of 20mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to ti	57.49	Sqm.	924.30	53138.01
2	14.91	Providing and fixing <u>ceramic tiles/anti skid tiles</u> of size 400 x 400mm or above size of approved make in flooring, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade of tiles.	365.56	Sqm.	624.00	228109.44
3	NS	Providing & fixing of <u>resisting tiles</u> from camicals, fire & clours on experiment slabs in Chemistry labs	80.07	Sqm.	800.00	64056.00
					Total	345303.45
					Say	345,000.00

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