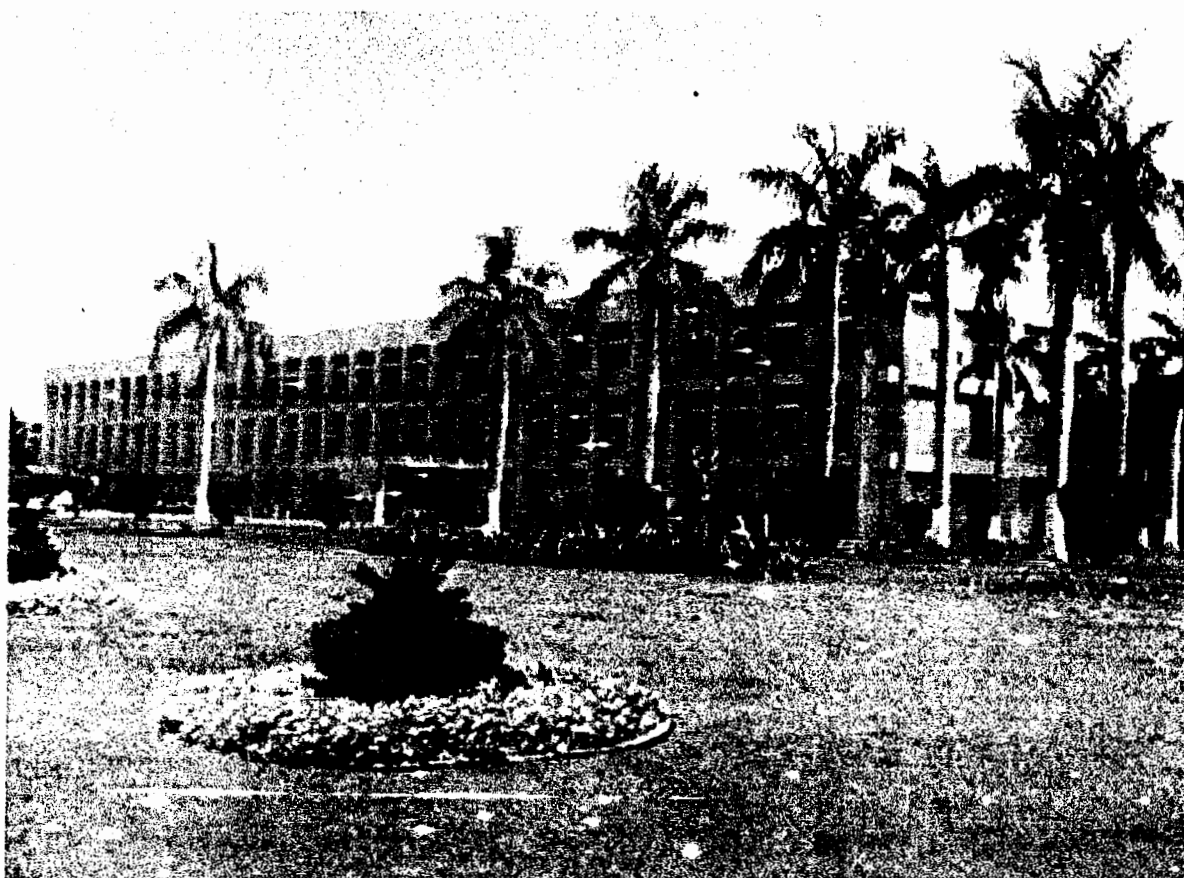




**AGENDA FOR 13<sup>TH</sup> MEETING  
OF BUILDING & WORKS  
COMMITTEE FEB-25, 2010**



**NATIONAL INSTITUTE OF TECHNOLOGY  
KURUKSHETRA-136119**

# **AGENDA FOR 13<sup>TH</sup> MEETING OF BUILDING & WORKS COMMITTEE**

**VENUE : SENATE HALL  
NATIONAL INSTITUTE OF  
TECHNOLOGY  
KURUKSHETRA**

**DAY : THURSDAY**

**DATE : 25.02.2010**

**TIME : 11.30 AM**

**NATIONAL INSTITUTE OF TECHNOLOGY  
KURUKSHETRA**

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## CONSTITUTION OF BUILDING & WORKS COMMITTEE

- |    |   |                        |
|----|---|------------------------|
| 1. | <b>Dr. M.N. Bandyopadhyay,</b><br>Director,<br>National Institute of Technology,<br>Kurukshetra   | <b>Chairperson</b>     |
| 2. | <b>Nominee of the MHRD</b><br>on the B & WC of the<br>Institute.  | <b>Member</b>          |
| 3  | <b>Sh. Vijay Prakash Saha</b><br>Chief Technical Advisor,<br>MECON, Chandigarh,<br>(Safety, Environment, Energy and Management Consultant),<br>W-16, Green Park, New Delhi-110016 | <b>Member</b>          |
| 4  | <b>Dr. Krishna Gopal</b><br>Dean (Planning & Development)<br>National Institute of Technology,<br>Kurukshetra   | <b>Member</b>          |
| 5. | <b>Er. Niranjan Singh,</b><br>Superintending Engineer (Civil).<br>Chandigarh Central Circle, CPWD.<br>Chandigarh  | <b>Member</b>          |
| 6. | <b>Er. Vimal Kumar</b><br>Superintending Engineer (Electrical).<br>Chandigarh Electrical Central Circle, CPWD.<br>Chandigarh  | <b>Member</b>          |
| 7. | <b>Dr. S.K. Sharma,</b><br>Dean (Estate, EM & Constn.),<br>National Institute of Technology,<br>Kurukshetra   | <b>Special Invitee</b> |
| 8. | <b>Dr. V.P Singh</b><br>Prof. In-charge (Estate & Construction),<br>National Institute of Technology,<br>Kurukshetra  | <b>Special Invitee</b> |
| 9. | <b>Prof. C.P Bansal</b><br>Prof. I/C (EM)<br>National Institute of Techonology,<br>Kurukshetra  | <b>Special Invitee</b> |

- |     |   |                         |
|-----|---|-------------------------|
| 10. | <b>Er. P.K Aggarwal</b><br>Executive Engineer (Construction cell)<br>National Institute of Technology,<br>Kurukshetra | <b>Special Invitee</b>  |
| 11. | <b>Sh. D.K. Kaushik,</b><br>Assistant Engineer (Elect.),<br>National Institute of Technology,<br>Kurukshetra          | <b>Special Invitee</b>  |
| 12. | <b>Sh. S.N. Kaushik,</b><br>Assistant Engineer (Civil),<br>National Institute of Technology,<br>Kurukshetra           | <b>Special Invitee</b>  |
| 13. | <b>Sh. R.P.S. Lohchab</b><br>Registrar<br>National Institute of Technology<br>Kurukshetra                             | <b>Member-Secretary</b> |

**Item: No.13.1      To confirm minutes of 12<sup>th</sup> (Special) meeting of the Building & Works Committee held on 03.09.2009**

The minutes of 12<sup>th</sup> (Special) meeting of Building & Works Committee held on 03.09.2009 were circulated amongst the members vide letter No.EO/Spl(12<sup>th</sup>)BWC/9252-61 dated 13.11.2009. Some comments regarding agenda item No.12.3 were received from Er. D.S. Sangwan, member of the B & WC vide his letter dated 18.11.2009 (copy enclosed as annexure-I on page 2). A detailed reply is enclosed as Annexure-II on page 3.

The minutes may be confirmed.

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

संख्या- 20(142)/क.के.मं/2009/4419

सेवा में

N.I.T. KURUKSHETRA  
8446

दिनांक करनाल  
18 नवम्बर 2009

Registrar & Member Secretary,  
Building & Works Committee,  
N.I.T., Kurukshetra.

Minutes of Special (12<sup>th</sup>) meeting of the Building and Works Committee held  
on Thursday, 3<sup>rd</sup> Sept.'2009 at 11.30 a.m. in the National Institute of  
Technology, Kurukshetra.

Ref:- Your letter No. EO/Spl(12<sup>th</sup>)/BWC/9252-61 dated 13.11.2009

Sir

With reference to your above cited letter it is informed that as discussed in the  
Building & Works Committee on 3<sup>rd</sup> Sept.'2009 the fees of architectural/structural drawings is  
not within the purview of the works and building committee and action for the same for  
procurement of drawings may be taken as per the relevant rules in this regard.

This is for favour of your information and necessary action please.

Yours faithfully,

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

प्रतिलिपि:

1. The Superintending Engineer, Chandigarh Central Circle, CPWD, Kendriya Sadan,  
Sector-9A, Chandigarh for information please.
2. Guard file.

कार्यपालक अभियन्ता

EEH 6

M/C 24/11/09

24/11/09

## **Annexure-II**

### **Comments to the observations made by Er. Sangwan member of the Building & Works Committee.**

Er. Sangwan, Executive Engineer representative of Superintending Engineer (civil), member of Building & Works Committee sent his observation on the minutes of Special 12<sup>th</sup> meeting of Building & works Committee held on 03.09.2009 (Agenda item No. 12.3 relating to construction of 350 seaters New Boys Hostel in place of 440 seaters). Vide his letter dated 18.11.2009. the Comments reproduced as under:-

"It is informed that as discussed in the Building & Works Committee on 3<sup>rd</sup> Sept. 2009 the fees of the architectural/structural drawings is not within the purview of the works and building committee and action for the same for procurement of drawings may be taken as per the releveant rules in this regard".

As repoted earlier, a High Power Committee was constituted at Institute level to discuss the issues regarding early completion of the construction of the 440 seaters Boys Hostel (5 storey). The Committee met on 27.08.2009. & decided that M/s Saakaar Foundation, Chandigarh. may be engaged to provide their services on repetition basis on concessional rates for the construction of 350 seaters Boys Hostel at a fees of Rs. 1.00 Lac + scrvic tax to save time & fee etc.

In view of the agenda placed in Special 12<sup>th</sup> meeting held on 03.09.2009 and it was proposed that a 350 seaters Boys Hostel (4 storey) may be constructed by adopting same architectural drawings, structural design & drawings at a cost of Rs. 19.16 crore instead of 440 seaters Hostel with all the Architectural drawings, & details may be obtained from M/s Saakaar Foundation, Chandigarh. at a fee of Rs. 1.00 Lac only.

But on seeing the increased intake of students, it was felt that Institute is not in a position to accommodate the increased strength of 54% OBC quota in July, 2011. After discussion at length by the High Power Committee, considering all pros & Cons, it was finally decided that the proposal for Construction of 1000 Capacity Mega Boys Hostel may be initiated on priority & proposal for the construction of 350 seaters Boys Hostel may be dropped.

Now, the decision of Construction of 350 seaters Boys Hostel and procurement of drawings etc. from the architect may be treated as dropped.

Sd/-

**Executive Engineer**



**Item No: 13.2**

**To report action taken on the minutes of the 11th and 12<sup>th</sup> (Special) meeting of the Building & Works Committee held on 28.07.2009 and 03.09.2009.**

Item No.	Subject	Decision taken	Action taken
13.1	To consider the minutes of the 11 <sup>th</sup> meeting of B & WC held on 28.07.2009	Minutes confirmed	No action is required.
13.2	(i) To report the action taken on the minutes of 12 <sup>th</sup> (Special) meeting of B & WC held on 03.09.2009.	The Committee noted the action taken on various decisions taken on item No.12.3	Item No.12.3 Dropped (Separate Item attached at annexure-II)
	(ii) To report the action taken on the minutes of 11 <sup>th</sup> meeting of B & WC held on 28.07.2009	The Committee noted the action taken on various decisions taken by B & WC.	
		Item Nos.(14.3) & (15.2). The Chief Engineer, PWD (B&R) may again be requested to take up installation of Tubewell for PWD Colony on priority basis	Action is being taken by the PWD (B&R). Govt. of Haryana
		Item No.(19.4) BWC approved the RCE amounting to Rs. 221.80 Lacs for Construction of a Gymnasium Hall in the Institute.	Funds are yet to be allocated.
		Item No. (19.15) BWC approved the RCE amounting to Rs.18.39 Lacs. for the Construction of Training & Placement Department building in the Institute.	Funds are yet to be allocated.
		Item Nos.(17.16, 20.12 & 1.9) BWC approved the RCE amounting to Rs. 64.15 Lacs for Const. of Community Centre in the Institute.	Funds are yet to be allocated.
		Item Nos. (2.42 & 4.17) The BWC approved the RCE amounting to Rs.154.00 Lacs for installation of DG sets.	Funds are yet to be allocated.

		Item Nos. (4.11) & (10.2) The BWC approved the RCE amounting to Rs. 27.99 Lacs for reconstruction of damaged/cracked/tilted compound walls in G type Houses of the campus.	Work completed
		Item No. (6.5) The Building & works Committee approved the RRCE amounting to Rs. 15.62 Lacs for Provision of Community Scooter Stand for E&F type houses at NIT Kurukshetra.	Funds are yet to be allocated.
		Item No. (6.7) The Building & Works Committee approved the RCE of Rs. 5.00 Lacs for Renovation /special repair of Old Health Centre Building.	Funds are yet to be allocated.
		Item No. (6.10) The Building & Works Committee approved the RCE amounting to Rs. 26.95 Lacs for provision of two nos. Institute Main Gates.	Funds are yet to be allocated.
		Item No. (6.11) The Building & Works Committee approved the RCE amounting to Rs. 40.02 Lacs for provision of Badminton Hall in the Institute.	Funds are yet to be allocated.
		Item No. (6.12) The Building & Works Committee approved the RCE amounting to Rs. 46.55 Lacs for Construction of 4 nos. mess staff bearers harracks.	Funds are yet to be allocated.
		Item No. (6.13) The Building & Works Committee approved the RCE amounting to Rs.30.57 Lacs for Provision of Stores in Hostels.	Funds are yet to be allocated.
		Item No. (6.14) The Building & Works Committee approved the RCE amounting to Rs. 52.07 Lacs for Renovation of offices of faculty and other officers.	Funds are yet to be allocated.

		The B&WC approved the RCE amounting to Rs.32.00 Lacs vide item No.8.5 for the extension of existing lecture theaters ( 3 Nos.) at NITK	Funds are awaited
		The B&WC approved the RCE amounting to Rs.2500 Lacs for the construction of Mega Boys Hostel of 1000 capacity at NIT, Kurukshetra	Work in progress. Separate item No. 11.4 attached
		The B&WC approved the RCE amounting to Rs.103.00 Lacs for the construction of additional office Rooms for faculty/ staff at NIT, Kurukshetra.	Funds are awaited.
		Item No.(8.9) The B&WC approved the RCE amounting to Rs.550 Lacs for the construction of Convocation Hall of 3000 capacity at NIT, KKR	Funds are awaited.
		Item No.(8.11) The B&WC approved the RCE amounting to Rs.68.8 Lacs for the construction of additional block of health Centre at NIT, Kurukshetra	Work in progress.
		Item No.8.17 The B&WC approved the RCE amounting to Rs.186.22 Lacs for the construction of 24 Nos. E-Type houses at NIT, Kurukshetra.	Funds are awaited.
		Item No.8.18 The B&WC approved the RCE amounting to Rs.111.70 Lacs for the construction of 20 Nos. F-Type houses at NIT, KKR	Funds are awaited.
		Item No.8.19 The B&WC approved the RCE amounting to Rs.6.74 Lacs for the construction of New Boundary Wall around the lawn of Director's residence at NIT, Kurukshetra.	Funds are awaited.
		Item 9.5 The B & WC approved the cost estimate for amounting to Rs. 37.50 Lacs for construction of additional Block for central workshop at NIT, Kurukshetra.	Funds are yet to be allocated.
		Item 9.6 The building & Works	Funds are yet to be

		committee approved the cost estimate for amounting to Rs. 92.66 Lacs for construction of additional Floor on the existing Examination Hall at NIT, Kurukshetra.	allocated.
		Item No.(9.9) The B & WC approved the cost estimate for amounting to Rs. 67.053 Lacs for replacement of A.C.C. sheets with Zincalume sheets & Renovation of water channel in central/old workshop at NIT, Kurukshetra.	Funds are yet to be allocated.
		Item No.(9.10) The building & Works committee approved the cost estimate for amounting to Rs. 1.75 Crore for replacement of C.I/A.C water supply lines with Centrifugally Cast (Spun) Iron Pipes Class L.A. in the Residency, Hostels & Instructional Buildings at NIT, Kurukshetra.	Funds are yet to be allocated.
		Item No.(9.11) The building & Works committee approved the cost estimate for amounting to Rs. 78.75 Lacs for Providing Distemping instead of white-washing in various Residencies at NIT, Kurukshetra.	Funds are yet to be allocated.
		Item Nos.(2.25, 6.3 & 9.12 )The building & Works committee approved the Revised cost estimate for amounting to Rs.659.06 Lacs for the construction of Administrative Block at NIT, Kurukshetra.	Work allotted to C.P.W.D & work is in progress.
		Item No.(10.3) The B &WC approved Revised Cost Estimate for Rs.110.97 Lacs for provision of glazed tiles in Hostel, Guest House, Residences & Instructional Building	Work in 5 Nos. Boys Hostels and Instructional Buildings completed & remaining to be carried out. Funds are awaited.
		Item No.(10.4). The B & WC	Work allotted to CPWD

		approved the Revised Cost Estimate amounting to Rs.396.76 Lacs for the construction of Swimming Pool.	and work is in progress.
		Item No.(10.5) The B & WC approved the Revised Cost Estimate amounting to Rs.74.98 Lac for stores in G-type houses.	Work completed
		Item No. (10.6) The B & WC approved the Revised Cost Estimate amounting to Rs.520.33 Lacs for the construction of 12 Nos. Lecture Hall at NITK.	Work completed
		Item No.(10.7) The B & WC approved the Revised Cost Estimate amounting to Rs.948.35 Lacs for the construction of Additional Girl Hostel.	Work in progress
		Item No.(10.10) The B & WC approved the Revised Cost Estimate amount for Rs.100.00 Lacs the special repair, renovation and miscellaneous works at National Institute of Technology, Kurukshetra.	Funds are awaited
		Item No.(10.15) The B & WC approved the cost estimate amounting to Rs.43.09 Lacs for the replacement of existing normal light fittings with energy efficient (T-5) type lighting fittings.	Funds are awaited
		Item No.(10.16) (i) The B & WC approved the cost estimate amount for Rs.9.54 Lac for provision of Approach Road & Gates in CA-3, CA-5, CA-6 & BB-5 houses at NIT Kurukshetra (ii) Cost estimate for replacement of Garage Rolling Shutters with openable Iron Gates for	Calling of tenders is in process

		BB-1 to BB-8, BC-1 to BC-4 & BC-6, BA-1 to BA-4 & BA-6 and CA-9 houses at NIT, Kurukshetra. (iii) Cost estimate for the provision of Garages with openable Iron Gate and approach road for AD-5 & AD-6 houses at NIT, Kurukshetra.	
		Item No.(10.17) The B & WC approved the cost estimate amount for Rs.7.63 Lacs for provision of stores in DA type houses (DA-10 to DA-15) at NIT, Kurukshetra	Calling of tenders is in process
		Item No.(10.18) The B & WC approved the cost estimate amounting to Rs.39.90 Lacs for providing pre-mix carpeting with 'B' type seal coat on various existing roads in the Institute at NIT, Kurukshetra.	Funds are awaited
		Item No.(10.19) The B & WC approved the cost estimate amounting to Rs.6.03 Lac for renovation in the existing 4 room Nos. HP-101, HP-102, HP-103 & HP-106, Refrigeration A/C & Heat Transfer Lab & conversion of existing Drawing Hall M-106 into 2 Labs in the Mech. Engg. Deptt. of the Institute	Funds are awaited
11.3	(i) To consider & approve revised cost estimate for providing & Installation of Electrical Sub-station HT/LT Distribution i/c street lighting & feeder pillars etc. non residential Area at NIT, Kurukshetra. (ii) Providing & Installation of Electrical	Item Nos. (2.41, 4.17 & 11.3) The B & WC approved the Revised cost estimate for amounting to Rs.801.00 Lacs for the Installation of HT/LT Sub-Station in non-residential area and residential area at NIT, Kurukshetra.	Work allotted to C.P.W.D

	Sub-station HT/LT Distribution and fiddler pillars in residential area at NIT, Kurukshetra		
11.4	To consider & approve cost estimate for provision of geysers and exhaust fans in hostel toilets NIT, Kurukshetra.	Item No. (2.40) The BWC approved the RCE amounting to Rs. 8.00 lacs for Provision of geysers and exhaust fans in hostel toilets. BWC in its 7 <sup>th</sup> meeting, however, decided that the institute may opt for Solar Heaters instead of geysers and advantage of Govt. subsidy on Solar Heaters may be taken for the purpose. The B & WC in 11 <sup>th</sup> meeting held on 28.07.2009 approved RCE of Rs.204 Lac	Work in progress
11.5	To consider & approve revised cost estimate for the construction of grading seating arrangement for 2000 persons in open Air-theatre at NIT, Kurukshetra.	Item No (6.15) and (11.5) The Building & Works Committee approved the RCE amounting to Rs. 440 Lacs for Provision of graded seating arrangement for 2000 persons in OAT.	Work allotted to CPWD and is in progress.
11.6	To consider & approve cost estimate for the Construction of Extension of Guest House at NIT, Kurukshetra.	The B&WC (vide item 8.10, 10.2 & 11.6) approved the RCE amounting to 181.27 Lacs for the construction of Institute Faculty Guest House at NIT, Kurukshetra	Work in progress
11.7	To consider & approve the cost estimate for the construction of Twenty Numbers professor houses at National Institute of Technology, Kurukshetra.	Item No. 8.13 & 11.7 The B&WC approved the RCE amounting to Rs.549.16 Lacs for the construction of 20 Nos. Professors Houses at NIT, Kurukshetra	Preparation of DNIT is in progress
11.8	To consider & approve the cost estimate for the construction of Twenty Numbers Assistant professor houses at National Institute of Technology, Kurukshetra.	Item No. 8.14 & 11.8. The B&WC approved the RCE amounting to Rs.470.71 Lac for the construction of 20 Nos. Assistant Professors Houses at NIT, Kurukshetra	-DO-
11.9	To consider & approve the revised cost estimate for the Construction of MBA & MCA Block -a two storey building at NIT,	Item No.9.4 & 11.9. The B & WC approved the cost estimate amounting to 526.30 Lac for construction of MBA & MCA Block - A two storey framed	Work in progress

	Kurukshetra.	structure building at NIT, Kurukshetra.	
11.10	To consider & approve cost estimate for provision of Acoustic treatment i.e false ceiling and wall paneling and Lighting Audio visual aids in 12 Nos. Lecture Hall NIT, Kurukshetra.	Item No.11.10 The B & WC approved the cost estimate amounting to Rs.89 Lacs for provision of Acoustic Treatment in 12 No. Lecture Hall at NIT, Kurukshetra.	Work completed
11.11	To consider & approve revised cost estimate for the construction & extension of Fifth storey Additional Girls Hostel (300 Capacity) at NIT, Kurukshetra.	Item No.11.11 The B & WC approved the cost estimate amounting to Rs.210 Lacs for the construction & extension of Fifth storey Additional Girls Hostel (300 Capacity) at NIT, Kurukshetra	Dropped
11.12	To consider & approve the rough cost estimate for the construction of New Boys Hostel 440 seaters capacity at NIT, Kurukshetra.	Item No.11.12 The B & WC approved the cost estimate amounting to Rs.22.37 crore for the construction of New Boys Hostel 440 seaters capacity at NIT, Kurukshetra.	Dropped
11.13	To consider & approve additional amount of 1% Labour Cess in the construction work of 350 seaters boys & New P.G 350 Seaters boys hostel.	Item No.11.13 The B & WC approved additional cost of 1% Labour Cess for the works wherein provision of 1% Labour Cess was not made. Now, approved to enhance the cost by adding 1% Labour Cess.	Action taken
11.14	To consider & approve cost estimate for providing campus Lighting in Hostel blocks of NIT, Kurukshetra.	Item No.11.14 The B & WC approved the cost estimate amounting to Rs.11.33 Lacs for providing campus Lighting in Hostel blocks of NIT, Kurukshetra.	Work completed
11.15	To consider & approve the cost estimate for the Installation of 11KV Sub-	Item No.11.15 The B & WC approved the cost estimate amounting to Rs.19.30 Lacs for	Work completed



	station for the Electric connection of U.G. & P.G 350 Seaters Boys Hostel at NIT, Kurukshetra.	the Installation of 11KV Sub-station for the Electric connection of U.G. & P.G 350 Seaters Boys Hostel at NIT, Kurukshetra	
11.16	To consider & approve the cost estimate for the construction of Two Rooms Size 18ft. x 16ft. in front of U.G. & P.G. 350 seaters Boys Hostel for Housing Transformers and CT/PT Energy meter box at NIT, Kurukshetra.	Item No.11.16 The B & WC approved the cost estimate amounting to Rs. 9.86 Lacs for the construction of Two Rooms Size 18ft. x 16ft. in front of U.G. & P.G. 350 seaters Boys Hostel for Housing Transformers and CT/PT Energy meter box at NIT, Kurukshetra	Work completed
11.17	To consider & approve revised cost estimate for the construction & extension of New Floor of computer Engineering Deptt. at NIT, Kurukshetra.	Item No.11.17 The B & WC approved the cost estimate amounting to Rs.200 Lacs for the construction & extension of New Floor of computer Engineering Deptt. at NIT, Kurukshetra.	Funds are awaited

Item No.13.3

**To consider & approve the Rough Cost Estimate for Providing & Laying of RCC NP-2 Hume Pipes for existing open storm water drain & construction of boundary wall for Girls Hostel (300 Capacity) at NIT, Kurukshetra (Approx. cost Rs.14.54 Lac)**

The construction work of Girl Hostel (300 Seaters capacity) is at an advance stage of completion. One open drain to carry out the campus storm water is passing in front of this building. To avoid nuisance of mosquitoes etc. , it is necessary to cover this drain by laying 1000mm dia NP-2 RCC hume pipes. A rough cost estimate has been prepared for Rs.2.23 Lac to cover this open drain.

Simultaneously, boundary wall around this hostel building is also necessary to be provided so that building may be made functional. In this regard, a rough cost estimates has been prepared for Rs.9.19 Lac. The total rough cost comes to Rs.11.42 Lac which have been scrutinized by the Construction Cell. The tenders were invited on 09.02.2010 after obtaining prior approval of the Chairman, B & WC in anticipation of approval of B & WC. As per financial/comparative statement, the rates of M/s Kiran Construction Co. Delhi are the lowest with a cost of Rs.14.54 Lacs.

The B & WC may ratify the action taken by the Director & Chairman of B & WC in approving the cost estimate amounting to Rs.14.54 Lacs for Providing & Laying of RCC NP-2 Hume Pipes for existing open storm water drain & construction of boundary wall for Girls Hostel (300 Capacity).

Sr. No.	HSR No.	Description	Qty.	Unit	Rate (in Rs.)	Gr. I	Estimated Total Rate (Rs.)	Revised Cost Estimate (in Rs.)
1	6.6	Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres.	170.00	100 cum	1108.10	350%	4986.45	9282.28
2	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate with 2 coats of bitumen 20/30 penetration at 1.65 Kg per sqm laid hot and sanded	80.00	sqm	35.05	340%	154.22	13509.67
3	10.38	Cement concrete 1:4:8 with stone aggregate 20mm nominal size in foundation and plinth	35.00	cum	420.00	340%	1848.00	70824.60
4	10.59	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in first storey up to 4 metre above plinth level.	12.00	cum	621.85	340%	2736.14	35952.88
5	11.2	First class brick work laid in cement sand mortar 1:6 in foundation and plinth	70.00	cum	393.45	400%	1967.25	150789.71
6	11.7	First class brick work laid in cement sand mortar 1:6 in first storey upto 4 metres above plinth level	130.00	cum	414.45	400%	2072.25	294984.79
7	15.10	15mm thick cement plaster 1:4 on the rough side of single or half brick wall	675.00	sqm	15.65	340%	68.86	50896.15
8	15.5	12 mm thick cement plaster 1:4	800.00	sqm	12.70	340%	55.88	48950.88
9	16.17	Painting two coats excluding priming coat with ready mixed paint for metallic surfaces in all shades on new steel or iron work	510.00	sqm	6.05	125%	13.61	7601.90
10	16.79	Providing two coats of exterior acrylic emulsion paint						0.00
	b)	1st Quality	1475.00	sqm	48.75	0%	48.75	78737.34
11	16.9	Applying priming Coat with metal primer on new steel or iron work including preparation of surface.	510.00	sqm	2.95	125%	6.64	3706.71
12	18.12	wrought iron and mild steel (using angles, flats, square bars, tee and channels) ladders grills, grating frames, window guards, iron doors openable or fixed stair case or parapet or any other type of railing, gates and tree guards etc., including cost of screws and welding rods or bolts and nuts complete fixed in position.	48.00	qtl.	1040.35	325%	4421.49	232393.38
13	18.22	Cold twisted deformed (ribbed/tor steel) bars for R.C.C. works, where not included in the complete rate of R.C.C. including bending, binding and placing in position complete	1.00	qtl.	917.05	350%	4126.73	4518.76
14	26.25	Fixing glass pieces on top of walls	300.00	Mtr.	5.60	130%	12.88	4231.08
<b>Total</b>								<b>1006380.14</b>

Sr. No.	HSR No.	Description	Qty.	Unit	Rate (in Rs.)	CP	Total Rate	Revised Cost Estimate (in Rs.)
1	29.93	Providing lowering laying cutting (cut surface to be uniformly finished), jointing with rubber rings marked with IS: 5382 and testing of spigot and socketted RCC NP2 marked with IS:458-1988 and specials into trenches for all depths including carriage, loading, unloading, stacking, handling, re-handling etc. complete in all respects to the satisfaction to the Engineer-in-charge.						
	i)	1000 mm i/d	95.00	per mtr.	2342.00	0%	4500.00	427500.00
2	10.38	Cement concrete 1:4:8 with stone aggregate 20mm nominal size in foundation and plinth	10.00	cum	420.00	340%	1848.00	20235.60
Total								447735.60
Grand Total								1454115.74
Say Rs.								14.54 Lac

-----Sd-----  
**EXECUTIVE ENGINEER**  
 Construction Cell  
 NIT-Kurukshetra

**Item No.13.4**

**To consider & approve the Revised Cost Estimate for the construction of Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.**

The BWC in its 8<sup>th</sup> meeting held on 28-05-07 approved the cost estimate amounting to Rs. 25.00 Crore for the construction of Mega Boys Hostel. On seeing the increased intake of students, because of new B. Tech/ M. Tech courses, increased intake at U.G. level and implementation of OBC quota, Institute has constructed 350 seaters Boys Hostel, 350 seaters New P.G. and 350 seaters Boys U.G. Hostel. To discuss the matter of further accommodation because of increase in intake, a meeting was held in the office of Director in the presence of Dean (E, EM & C), Prof. I/C (E & C) and Registrar and discussed that Institute is not in a position to accommodate the increased strength of ensuing session of July 2010, and balance increased strength of 54% OBC quota is going to be implemented in July 2011. After considering all pros and cons, it was finally discussed that the proposal for construction of 1000 capacity Mega Boys Hostel may be initiated immediately so that the construction work of said Hostel may be completed well before July 2011 so that students does not suffer any accommodation problems.

Accordingly, M/s Benjamin Benjamin & Vats Architect New Delhi was requested on 07.09.2009 to provide Architectural Consultancy Services for the construction of Mega Boys Hostel. The Architect M/s Benjamin Benjamin & Vats visited this Institute on 15.10.09 to finalize the Drawings for this project etc. Finally the Committee approved the Architectural Drawings on 22.10.09 in the presence of the Architect. Accordingly the Architect M/s Benjamin Benjamin & Vats sent a rough cost estimate amounting to Rs.47.11 Crore. The same was got approved from the Director/Chairman B & WC in anticipation of approval of the B & WC. The tenders were floated amounting to Rs.33.90 Crores and opened on 21.01.2010. On the basis of tendered rate, the comparative statement has been prepared and it amounts to Rs.37.84 Crore.

The B & WC may ratify the action taken by the Director & Chairman of B & WC in approving the RCE of Rs.47.11 crore for the construction of Mega Boys Hostel 1000 capacity at NIT, Kurukshetra.

## PRELIMINARY ESTIMATE

Name Of Work :- C/o Mega Boys Hostel of 1000 Capacity At N.I.T. Kurukshetra  
Haryana.

Estimated Cost :- Rs. 470465580.00 (including 3% contingenceis)

(Rupees Forty seven Crores Four Lacs Eighty Five Thousand  
Six Hundred and Eighty Only.)

BENJAMIN BENJAMIN & VATS  
ARCHITECTS ENGINEERS AND URBAN PLANNERS  
E-332, 2ND FLOOR, NIRMAN VIHAR DELHI -110052  
TELE/FAX -011-42445354, 22425884, bbvats@gmail.com

# National Institute of Technology Kurukshetra

State :- Haryana

Division:- Executive Engineer(Civil)

Branch:- B & R

Name of Work:- C/o Mega Boys Hostel of 1000 Capacity at NIT, Kurukshetra.

Major Head

Minor Head

Detailed Head

Preliminary Estimate is framed by Architect Consultant M/s Benjamin Benjamin & Vats for Rs. 47048500/- including 3% Contingencies.

## 1.0 HISTORY:-

Preliminary Estimate amounting to Rs. 47048500/- including 3% contingencies has been framed to cover probable cost of work for obtaining Administrative Approval and Expenditure Sanction of competent authority. It was desired by NIT authority vide letter no. CC/644/7792 dated 07.09.09 that the proposed work was to be taken up for construction at NIT, Kurukshetra. Accordingly the site was visited and preliminary architectural drawings were prepared and submitted to NIT authority on 23.09.09. The same were discussed in Institution's Drawing Approval Committee meeting held on 22.10.09 and approved with minor modifications which have been subsequently incorporated in the drawings. The approval of drawings was conveyed vide no. CC/715/8392 dated 30.10.2009.

## 2.0 DESIGN AND SCOPE:-

The Preliminary Estimate for the above work is based on the following architectural working drawings.

- 1.) Site Plan - NITK/LOP/W/1
- 2.) Hostel Block -
  - A) Block H - A :-
    - i) NITK/H-A/W/01 - Ground Floor Plan
    - ii) NITK/H-A/W/02 - First Floor Plan
    - iii) NITK/H-A/W/03 - 2<sup>nd</sup> to 5<sup>th</sup> Floor Plan (Typical)
    - iv) NITK/H-A/W/04 - Terrace Floor Plan
    - v) NITK/H-A/W/05 - Elevations & Sections
  - B) Block H - B :-
    - i) NITK/H-B/W/01 - Ground Floor Plan
    - ii) NITK/H-B/W/02 - First Floor Plan
    - iii) NITK/H-B/W/03 - 2<sup>nd</sup> to 5<sup>th</sup> Floor Plan (Typical)

- (iv) NITKAH-BW/04 - Terrace Floor Plan  
(v) NITKAH-BW/05 - Elevation and Section Details

- |                        |                            |
|------------------------|----------------------------|
| 2) Dining Block        | Ground Floor Plan          |
| i) NTK/HOST/DIN/W/01   | 1 <sup>st</sup> Floor Plan |
| ii) NTK/HOST/DP/W/02   | 2 <sup>nd</sup> Floor Plan |
| iii) NTK/HOST/DIN/W/03 | Terrace Floor              |
| iv) NTK/HOST/DIN/W/04  | Elevation                  |
| v) NTK/HOST/DIN/W/05   | Section                    |
| vi) NTK/HOST/DIN/W/06  |                            |

- |                        |                     |
|------------------------|---------------------|
| 4) Warden House        | Ground Floor Plan   |
| i) NITK/HOST/WH/W/01   | Terrace Plan        |
| ii) NITK/HOST/WH/W/02  | Elevations          |
| iii) NITK/HOST/WH/W/03 | Elevation & Section |
| iv) NITK/HOST/WH/W/04  |                     |

30 SPECIFICATIONS:-

**SPECIFICATIONS:-**  
The work shall be carried out as per Haryana PWD specification.

#### 4.0 RATES:-

**RATES:-**  
The Preliminary Estimate is based on Mysore PAR 2006-2009.

1.0 COST

**COST**  
RS. 470485680/- **Net 3% Contingencies**

## 5.0 METHOD:-

By Counsel after call of tender.

## 7.0 TOOLS AND PLANTS

**TOOLS AND PLANT:** No special Tools and Plants are required. All required Tools & Plant will be arranged by the Contractor.

U.C. ESTABLISHMENT

W.C. ESTABLISHMENT  
Shall be met out of 3% contingencies.

9.0 Trail :- 18 months after award of work.

TIME :- 18 months after award of work.

For Benjamin Sengster

**BENJAMIN BENJAMIN & SONS**  
ARCHITECTS, ENGINEERS & URBAN PLANNERS  
1014 N. HIGHWAY 100, SUITE 100, DALLAS, TEXAS 75243  
TEL: 754-1234 FAX: 754-5678



# PRELIMINARY ESTIMATE

Name Of Work - C/o Mega Boys Hostel of 1000 Capacity At N.I.T. Kurukshetra Haryana

## GENERAL ABSTRACT

S. NO.	DESCRIPTION	AMOUNT
1.	CIVIL & ELECTRICAL WORKS	Rs. 407343624.00 ✓
2.	BULK SERVICES - Electrical	Rs. 50038244.00
	(A-D)	Rs. 40438590.00
		Rs. 456782214.00
	Add : 2% Contingencies on Rs. 456782214.00	Rs. 457371868.00
	Grand Total :-	Rs. 471093024.00

Grand Total Rs. 47,10,93,024.00 ✓

For Benjamin Benjamin & Vats

BENJAMIN BENJAMIN & VATS  
ARCHITECTS, ENGINEERS AND URBAN PLANNERS  
E-332, 2ND FLOOR, NIRMAN VIHAR DELHI - 110022  
TELE/FAX - 011-42445354, 22425864, bbv@nlsat.com

P/ITEM

# PRELIMINARY ESTIMATE


Name Of Works: Old Baga Boys Hostel of 1000 Capacity At N.L.T. Kumbakonam, Madras  
CIVIL & ELECTRICAL WORKS

S.No	Description	Quantity	Rate in Rs.	Unit	Amount in Rs.
1	P.C.C. framed structure upto 6 storeys, main Bldg (G+5)	31722.52	sqm	7540.00	238195340.72 (B)
2	Mess / Dining Block (G+2)	5275.54	sqm	7520.00	39616952.72 (C)
3(a)	Warden Block (single storeyed)	351	sqm	8750.00	3063250.00
3(b)	Shops	92	sqm	6000.00	552000.00
3(c)	Cycle Sheds	832	sqm	6000.00	4992000.00
4	Extra for foundation in more than two storeys building consisting more than two storeys	855	sqm	5800.00	4953000.00
5	Mess / Dining Block (Kitchen)	1751	sqm	875.00	1527125.00
6	Extra for K.O.F. Area	5002.00	sqm	5200.00	26010400.00
7	General Electrical Installation	2216.00	sqm	500.00	1108000.00
8	Street Lighting	24750	sqm	50.00	1237500.00
9	Public Health	239185	sqm	10%	23918.50
10	Hostel (G)	41775	sqm	10%	4177.50
11	Dining Block / Warden (G)	41775	sqm	10%	4177.50
12	LAN ch 200	24750	sqm	125.00	3093750.00
13	SLAB	8	sqm	120000.00	960000.00
14	Estimate Charges (For civil & Electrical)	LUMP SUM			500000.00
15	Boundary Wall	600	sqm	3000.00	1800000.00
16	C.P. Pavement	6000	sqm	1000.00	6000000.00

For Benjamin Benjamin & Co.

BENJAMIN BENJAMIN & CO.

Name of Work :- MEGA BOYS HOSTEL, NIT KURUKSHETRA, HARYANA			
BULK SERVICES - Electrical			
S.NO.	DESCRIPTION	AMOUNT IN RS.	REMARKS NSR 2008
	(1)		
1	For Epabx/ Intercom System Covered Area 31723.52 (main building) @ Rs. 125/ Sq.	3,965,440.00	HSR
2	For Manual Fire Alarm System 38360.75 Sq.mtr. @ Rs.200/ Sq. mtr	7,672,150.00	HSR
3	DG Sets		
3.1	SITC of D.G Sets with AMF Panel Silent Type 1 X 320 KVA for Hostels	2,700,000.00	NSR 2008 P-4
3.2	For Night Loads 1 x 62.5 KVA with AMF including Earthing	800,000.00	NSR 2008 P-4
4	SUBSTATION EQUIPMENTS		
4.1	SITC of 4 Panel Board 630 A VCB H.T Panel (5+3 X 4.5)	1,850,000.00	NSR 2008 P-1
4.2	SITC of 11 KVA/33V, 2 X 750 KVA on load Dry Type Transformer (2X15.30 Lacs)	3,060,000.00	NSR 2008 P-1
4.3	SITC of 2X750 KVA Oilical type LT Panel = 21 Lacs for 2 Nos. Transformer	2,100,000.00	NSR 2008 P-2
4.4	SITC of HT Cabling Earthing & Safety Equipments, etc @ (18.5+30.6+21) = 70.1 Lacs @ 10% = 7,01,000.00	701,000.00	NSR 2008 P-2
4.5	SITC of Capacitor Panel of 2 Nos. 300 KVAR each M.P.P Type Thyristor Type i.e. 600 KVAR @ Rs. 2000/ KVAR	1,200,000.00	NSR 2008 P-5
5	BDB's & Rising Mains with Tap off Boxes, End Feed Boxes & Cabling etc.		
5.1	Compact Sandwich Type Al. Rising Mains 250 A Normal & Emergency 21 Mtr. High each (170 Mtrs @ Rs. 9,000)	1,530,000.00	NSR 2008 P-3
5.2	Tap Off Boxes 63A/ 100 A (80 Nos. @ Rs. 12,000/-)	1,152,000.00	NSR 2008 P-3
5.3	End Feed Units 250 A, 50 KA (8 Nos. @ 36,000)	288,000.00	NSR 2008 P-3
5.4	BDB's including interconnections, etc. (48 Nos. @ Rs. 50,000)	2,400,000.00	NR
5.5	SITC of LT Cables from LT to Main Board of Building for Normal & Emergency Loads (L.S)	2,000,000.00	NR

Per Benjamin Benjamin & Sons  
  
 Proprietor

S.NO.	DESCRIPTION	AMOUNT IN RS.	REMARKS NSR 2008
6	Water Supply Pumps 4 x 10 HP (7.5 KW) Booster Pumps/ Flushing Water Pumps with Panel, Cabling, etc. 4 Nos. @ Rs. 1.5 Lacs each.	600,000.00	MR
7	Solar Water Heating 32000 LPD 1000 Rooms @ 30 LPD 30,000 LPD + Kitchen 2000 LPD @ 2 Lacs per 1000 LPD.	6,400,000.00 500,000.00	MR MR
8	TV Conduit + Wiring L.S.		
9	External HT Service Connection to Supply Company	10,000,000.00	MR
10	Firefighting over head tanks 40,000 ltrs @ Rs. 6 per ltr.	240,000.00	MR
GRAND TOTAL		49,438,590.00	

For Director, Bangalore 5/10/08

Benjamin Benjamin & Vats  
Proprietor

# COVERED AREA SCHEDULE

## (A) HOSTEL BLOCK - J

Ground Floor

= 2975.28 sqm

1st to 5th Floor

2518.30 x 5  
Total

= 12591.50 sqm  
= 15566.78 sqm

## (B) HOSTEL BLOCK - E

Ground Floor

= 2826.26 sqm

1st to 5th Floor

2577.41 x 5  
Total

= 12887.05 sqm  
= 15713.31 sqm

## \* TOTAL HOSTEL AREA

15710.21 + 15713.31

= 31423.52 sqm

## WARDEN HOUSE

HOUSE + CANOPY

= 360.00 sqm

SAY

= 360.00 sqm

## DINING

GROUND FLOOR

= 1774.20 sqm

1ST FLOOR

= 1750.87 sqm

2ND FLOOR

= 1750.87 sqm

TOTAL

= 5275.94 sqm

## LINKING CORRIDOR

1	21.6 X	3.0 X	3 (CORRIDOR)
2	24 X	3.0 X	3 (CORRIDOR)
3	22.75 X	2.0 X	6 (CORRIDOR)
4	21 X	2.00	
5	17.2 X	2.00	

= 281.55 sqm  
= 255.2 sqm  
= 370.8 sqm  
= 42 sqm  
= 34.4 sqm  
= 557.95 sqm  
= 558 sqm

SAY

## LIBRARY

9 x 4

= 36 sqm

## PARTS

A	40 X	4
B	27 X	4
C	40 X	4
D	40 X	4
E	30 X	4
F	30 X	4

= 160.00 sqm  
= 106.00 sqm  
= 240.00 sqm  
= 160.00 sqm  
= 120.00 sqm  
= 120.00 sqm  
= 120.00 sqm

TOTAL

= 826.00 sqm

## PIC AREA

165 x 350

= 24750 sqm

C.C. Pavement Area

= 2000 sqm

For Benjamin Benjamin & Vals  
For Benjamin Benjamin & Vals

Proprietor

Name of Work :- MEGA BOYS HOSTEL, NIT KURUKSHETRA, HARYANA			
BULK SERVICES - Electrical			
KIND ATTN:- ER D.K KAUSHIK A.E(E)			
S.NO.	DESCRIPTION	AMOUNT IN RS.	REMARKS
(1)			
1	I.E.I Total Covered Area = 38360.75 Sq. Mtr. @ Rs. 500 per Sq.Mtr.	19,180,375.00	HSR ✓
2	Street Lighting Plot Area 24750 Sq. mtr. @ Rs. 55/ Sq. Mtr.	<del>12,37,500.00</del> 1,361,250.00	HSR ✓ 1,23,750.00
3	LAN Network, Plot Area 24750 Sq. Mtr. @ Rs. 125/ Sq. Mtr.	3,093,750.00	HSR ✓
4	Lifts 13 Passenger 8 Nos @ Rs. 12 Lacs Each	9,600,000.00	HSR ✓
5	For Epabx/ Intercom System Covered Area 38360.75 @ Rs. 125/ Sq. Mtr.	4,795,093.75	HSR
6	For Manual Fire Alarm System 38360.75 Sq.mtr. @ Rs.200/ Sq.mtr.	7,672,150.00	HSR
7	DG Sets		
7.1	SITC of D.G Sets with AMF Panel Silent Type 1 X 320 KVA for Hostels	2,700,000.00	NSR 2008 P-4
7.2	For Night Loads 1 x 62.5 KVA with AMF including Earthing	600,000.00	NSR 2008 P-4
8	SUBSTATION EQUIPMENTS		
8.1	SITC of 4 Panel Board 630 A VCB H.T Panel (5+3 X 4.5)	1,850,000.00	NSR 2008 P-1
8.2	SITC of 11 KV/433V, 2 X 750 KVA on load Dry Type Transformer ( 2X15 30 Lacs)	3,060,000.00	NSR 2008 P-1
8.3	SITC of 2X750 KVA Cubical type L.T Panel = 21 Lacs for 2 Nos. Transformer	2,100,000.00	NSR 2008 P-2
8.4	SITC of HT Cabling, Earthing & Safety Equipments, etc @ (18.5+30.6+21) = 70.1 Lacs @ 10% = 7,01,000.00	701,000.00	NSR 2008 P-2
8.5	SITC of Capacitor Panel of 2 Nos. 300 KVAR each M.P.P Type/ Thyrister Type i.e. 600 KVAR @ Rs. 2000/ KVAR	1,200,000.00	NSR 2008 P-5
9	BDB's & Rising Mains with Tap off Boxes, End Feed Boxes & Cabling etc.		
9.1	Compact Sandwich Type Al. Rising Mains 250 A Normal & Emergency 21 Mtr. High each (170 Mtrs @ Rs. 9,000)	1,530,000.00	NSR 2008 P-3
9.2	Tap Off Boxes 63A/ 100 A (96 Nos. @ Rs. 12,000/-)	1,152,000.00	NSR 2008 P-3



S.NO.	DESCRIPTION	AMOUNT IN RS.	REMARKS NSR 2008
9.3	End Feed Units 250 A, 50 KA (8 Nos. @ 36,000)	288,000.00	NSR 2008 P-3
9.4	BDB's including Interconnections, etc. (48 Nos. @ Rs. 60,000)	2,880,000.00	MR
9.5	SITC of LT Cables from L.T. to Main Board of Building for Normal & Emergency Loads (L.S)	2,000,000.00	MR
10	Water Supply Pumps 4 x 10 HP (7.5 KW) Booster Pumps/ Flushing Water Pumps with Panel, Cabling, etc. 4 Nos. @ Rs. 1.5 Lacs each	600,000.00	MR
11	Solar Water Heating 32000 LPD 1000 Rooms @ 30 LPD, 30,000 LPD + Kitchen 2000 LPD @ 2 Lacs per 1000 LPD.	6,400,000.00	MR
12	TV Conduit + wiring L.S	500,000.00	MR
13	External HT Service Connection to Supply Company	10,000,000.00	
GRAND TOTAL		83,263,618.75	

Rs. 8,32,63,619.00 (Rupees Eight Crores, Thirty Two Lacs, Sixty Three Thousands, Six Hundred & Eighteen Only)

P/IZEM

3,32,55,375 20/11/08 ABW

① Total 1 to 13 = 83139868.75

② Total ① + ② + ③ + ④ = 33111625

Total (A-B) = 50028243.75

83139868.75

**Item No.13.5      To consider & approve the Rough Cost Estimate for the construction of boundary wall in Hostel No. 1 & Hostel No. 2 at NIT, Kurukshetra.**

The Chief Warden, NIT, Kurukshetra requested to construct the boundary wall in Hostel No.1 & 2. The matter has also been discussed in the meeting of Board of Residence held on 27.08.2009 in the Senate Hall under the Chairmanship of Director NIT, Kurukshetra.

In the meeting, it was discussed that at present, 1<sup>st</sup> year students are residing in Hostel No.3, where boundary wall has already been constructed. Now due to further increase in intake, the students will stay in Hostel No. 1 & 2 in the ensuing session. Hence, from security point of view, the construction of boundary wall is essentially required for these hostels.

The Construction Cell has prepared a rough cost estimate amounting to Rs.25.95 Lacs

It is therefore, requested that B & WC may consider & approve the RCE amounting to Rs.25.95 Lacs for the above work.



**Rough Cost Estimate for the Construction of Boundary Wall of Hostel NO. 1&2 AT NATIONAL INSTITUTE OF TECHNOLOGY,  
KURUKSHETRA**

**(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-02-2009)**

Sr. No.	HSR No.	Description	Qty.	Unit	Rate (in Rs.)	Amount
<b>SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)</b>						
1	6.6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs. depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry in 15 cm layers with compaction, including disposal of all surplus soil as directed within a lead of 30 mtrs.	662.31	100 Cum	4986.45	33026.00
2	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	110.39	Cum	1773.64	195792.00
3	18.22	Cold twisted deformed (ribbed/tor) bars for R.C.C. works, where not included in the complete rate of R.C.C. including bending, binding and placing in position complete.	45.45	Qds	4126.73	187560.00
4	10.86+10.95(a)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, girders, stairs, columns, (square or rectangular) battens and lintels etc. excluding steel reinforcement but including centering and shuttering, laid in position complete in all respect.	51.90	Cum	5230.5	271463.00
5	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm. laid hot and sanded.	225.67	Sqm	154.22	34803.00
6	11.4	First class brick work laid in cement sand mortar 1:4 in foundation and plinth.	314.22	Cum	2123.00	667089.00
7	11.9	First class brickwork laid in cement sand mortar 1:4 in first storey upto 4 meter above plinth level.	473.92	Cum	2228.00	1055894.00
8	15.10	15mm thick cement plaster 1:4 on the rough side of single or half brick wall	1049.88	Sqm	68.80	72295.00
9	15.62	Cement pointing 1:2 flush on brick and tile walls	1049.88	Sqm	32.78	34415.00
10	16.47	White Washing Two Coats	1049.88	Sqm.	2.03	2126.00
11	16.61	Finishing walls with exterior decorative cement based paints such as snowcem, Robbiacem etc. on new work two coats to give an even shade.	1049.88	Sqm	16.31	17126.00
12	26.25	Fixing glass pieces on top of walls	981.2	Mtr.	22.88	12638.00
13	4.1 (a)	Stone (building or pitching), sand, bajri, shingle, spalls, brick-bats, brick ballast and stone metal	150.00	Cum	21.38	3207.00
14	5.2 (a)	Carriage of material (metalled roads), lead more than 2.00 Km excluding loading, unloading and stacking (A) Surkhi, sand, bajri, ballast, stone boulders kankar & building rubbish	150.00	Cum	49.60	7440.00
		<b>Total</b>				<b>2594874.00</b>
				<b>Say</b>		<b>25,95,000.00</b>

**Item No.13.6**

**To consider & approve the cost estimate for the construction of 20 Nos. Professor and 20 Nos. Assistant Professor multistoreyed staff housing at National Institute of Technology, Kurukshetra.**

The B & WC in its 11<sup>th</sup> meeting held on 28<sup>th</sup> July 2009 approved the cost estimates amounting to Rs.1019.87 Lac of both these categories as under:

(i)	For 20 Nos. Professor houses (Item No.11.7)	= Rs.549.16 Lac
(ii)	For 20 Nos. Assistant Professor houses (Item No.11.8)	= <u>Rs.470.71 Lac</u>
	Total	= Rs.1019.87 Lac

The proposed building is a 6 storeyed RCC framed structure over common raft foundation for both type houses is to be constructed as per preliminary drawings approved by the Drawing Approval Committee of the Institute. The work of both type of these houses will be carried out simultaneously and accordingly the estimate on Plinth Area Rates has been framed by the Architect for Rs.14,38,67000/- i.e. Rs.14.39 crores with the provision of Lifts/Fire Fighting/DG Sets and development of land etc.

The B & WC is requested to consider & approve clubbing of Item No.11.7 & 11.8 of 11<sup>th</sup> meeting of B & WC as one Item to construct 20 Nos. Professor and 20 Nos. Associate Professor(Previously Assistant Professor) multistoreyed staff housing amounting to Rs.14.39 crores

Handwritten calculations and notes:

2  
20  
50  
80 lac

13.30  
16.32 crore  
+  
1 crore  
17.72  
17.72  
184.00

-29-

Name of Work:- Multi storied Staff Housing at N.I.T Kurukshetra, Haryana

**General Abstract**

Sub Head	Description	Amount
I	Civil Work	101,460,026.00
II	Electrical & Mechanical Services	29,050,264.00
III	Estate Charges (Civil & Electrical)	2,500,000.00
IV	Development of Land	6,665,740.00
Total		139,676,030.00
Add 3% Contingencies		4,190,280.90
		143,866,310.90

SAY = Rs. 143867000

14,39,61,114

  
BENJAMIN BENJAMIN & VATS

Name of Work:- Multi storied Staff Housing at N.I.T Kurukshetra, Haryana.

(S.H - Civil Work) - Sub Head I

S.No.	Description	Quantity	Rate (in Rs.)	Unit	Amount (in Rs.)	Remarks
1.1	R.C.C framed structure upto 6 storied Building. (G + 5)	11311.72 sqm	7540	sqm	85290369 A	HSR
1.2	Extra for Raft (G.F area) (Rate = Rs 1300 x 4) = 5200	1879.4 sqm	5200	sqm	9772880	HSR
	Services (Civil)					
2.1	Internal Water Supply and Sanitary Installations	85290369	7.50%		6396778	HSR

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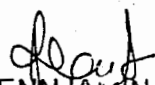
Name of Work :- MULTI STORIED STAFF HOUSING NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA, HARYANA			
ELECTRICAL & MECHANICAL SERVICES			
S.H:- II			
S.NO.	DESCRIPTION	AMOUNT IN RS.	REMARKS NSR 2008
1	I.E.I (Covered Area)11276.4 Sq. Mtr. @ Rs. 500 per Sq.Mtr.	5,638,200.00	HSR
2	Street Lighting 11276.4 Sq. Mtr Plot Area@ Rs. 55/ sq. mtr.	620,202.00	HSR
3	LAN Network, Plot Area 11276.4 Sq. Mtr. @ Rs. 125/ Sq. Mtr.	1,409,550.00	HSR
4	Lifts 13 Passenger 2 Nos. @ Rs. 12 Lacs Each	2,400,000.00	HSR
5	For Epabx/ Intercom System Covered Area 11276.4 Sq. Mtr @ Rs. 125/ Sq. Mtr	1,409,550.00	HSR
6	For Manual Fire Alarm System 11276.4 Sq.mtr. @ Rs.155/ Sq.mtr.	1,747,842.00	PAR 2007
7	For Fire Fighting with Downcomer system 11276.4 Sq mtr. @ Rs 300/ Sq.mtr.	3,382,920.00	PAR 2007
8	DG Sets		
8.1	SITC of D.G Sets with AMF Panel Silent Type 1 X 110 KVA for Lifts, Common Lights, Fire Fighting Systems, Fire Alarm System, Pumps & External Lighting Only	840,000.00	NSR 2008 P 4
9	SUBSTATION EQUIPMENTS		
9.1	SITC of 4 Panel Board 630 A VCB H.T Panel (5+2 X 4.5)	1,400,000.00	NSR 2008 P 1
9.2	SITC of 11 KV/433V, 2 X 630 KVA on load Oil Type Transformer ( 2X9.1 Lacs)	1,820,000.00	NSR 2008 P 1
9.3	SITC of 2X630 KVA Cubical type L.T Panel = 21 Lacs for 2 Nos. Transformer	2,100,000.00	NSR 2008 P-2
9.4	SITC of HT Cabling, Earthing & Safety Equipments, etc @ (14+18.2+21) = 53.2 Lacs @ 10% = 5,32,000.00	532,000.00	NSR 2008 P 2
9.5	SITC of Capacitor Panel of 2 Nos. 200 KVAR each M.P.P Type/ Thyristor Type i.e. 400 KVAR	800,000.00	NSR 2008 P 5
10	BDB's & Rising Mains with Tap off Boxes, End Feed Boxes & Cabling etc.		
10.1	Compact Sandwich Type Al. Rising Mains 1000 A 20 Mtr. High each. @ Rs. 18,000)	360,000.00	NSR 2008 P 3
10.2	Tap Off Boxes 200 A (6 Nos. @ Rs. 15,000/-)	90,000.00	NSR 2008 P 3
10.3	End Feed Units 1000 A, 50 KA	160,000.00	NSR 2008 P 3

10.4	MAIN BOARDS & METER BOARDS suitable for set of 8 Quarters per floor	240,000.00	NSR 2008 P 6
10.5	SITC of L.T Cables from Substation to main board, etc.	500,000.00	MR
11	Water Supply Pumps 4 x 10 HP (7.5 KW) Booster Pumps/ Flushing Water Pumps with Panel, Cabling, etc. 4 Nos. @ Rs. 1.5 Lacs each.	600,000.00	MR
12	TV Conduit + wiring L.S	500,000.00	MR
13	External HT Service Connection to Supply Company	2,500,000.00	HSR
GRAND TOTAL		29,050,264.00	

*Benjamin*  
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Name of Work:- Multi storied Shaft Housing at N.I.T Kurukshetra, Haryana  
Sub Head:- III (Estate Charges)

S.No.	Description	Quantity	Rate (in Rs.)	Unit	Amount (in Rs.)	Remarks
1	Estate Charges For Civil & Electrical	.....Lump Sum.....			2500000	

  
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Name of Work:- Multi storied Shaft Housing at N.I.T Kurukshetra, Haryana  
Sub Head:- IV (Development of Land)

S.No.	Description	Quantity	Rate (in Rs.)	Unit	Amount (in Rs.)	Remarks
1	C.C Pavement	375.74 sqm	1000	sqm	375740	
2	Boundary Wall	410 mt	3000	mt	1230000	
3	S.T.P unit	....Lump - Sum.....			5000000	
4	Rain Water Harvesting	2 nos	30000	Each	60000	
					<u>6665740</u>	

  
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Name of Work:- Multi storied Shaft Housing at N.I.T Kurukshetra, Haryana  
Measurement Sheet

Boundary Wall

$$2 \times \{ 70.1 + 134 \} = 408.2 \text{ mt}$$

$$\text{Say} = 410 \text{ mt}$$

Plot Area

$$70.1 \times 134 = 9393.4 \text{ sqm}$$

Pavement Area

$$9393.4 \text{ sqm} \times 4\% = 375.74 \text{ sqm}$$

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