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AGENDA FOR 2nd MEETING OF BUILDING & WORKS COMMITTEE

AUGUST 27, 2004



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

AGENDA FOR 2ND MEETING OF BUILDING & WORKS COMMITTEE

VANUE:

INSTITUTE BOARD ROOM

DAY :

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FRIDAY

DATE:

AUGUST 27, 2004

TIME:

11.00 AM

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136 119

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1.	Dr. S N Mahendra Director, National Institute of Technology, Kurukshetra.	Chairperson
2.	Sh. B S Jain, Director, Technical Education Haryana, SCO No. 38-39, Sector 17-A Chandigarh.	Member
3.	Dr. G L Jambhulkar, Deputy Educational Advisor(NITs), Govt. of India, Ministry of Human Resource Developmer Department of Secondary & Higher Education, Shastri Bhawan, New Delhi.	Member
4.	Dr. K Subramanian Advisor-1, AICTE (BOG nominee on BWC), Indira Gandhi Sports Complex, I.P. Estate, New Delhi-110002.	Member
5.	Er. A K Jhamb AGM, (Civil & electrical Wing) NBCC (Ltd.) Tower, Plot No. 4, Sector-14, Semant Bihar, Kaushambi Ghaziabad (UP)	Member
6.	Representative of PWD (B&R), Civil Wing, Office of Engr-In-Chief, PWD(B&R), Sector 19B, Chandigarh	Member
7.	Dr. Krishna Gopal, Dean (P&D), NIT, Kurukshetra	Member
8.	Dr. R C Bhattacharjee, Prof. I/C(Estate & Constn.) NIT, Kurukshetra.	Invitee
9.	Sh. Vijay Malik Architect, Planners Group, SCO. 4, 1 st Floor, Sector 17E, Chandigarh	Invitee
10.	Sh. R P S Lohchab Registrar, NIT, Kurukshetra.	ember-Secretary

Item No. 2.1 To confirm the minutes of the 1st meeting of the Building & Works Committee held on 8.11.2002

The minutes of 1st meeting were circulated amongst the members vide No. EO/1st BWC/7193-7203 dated 15.11.2002. No comments were received from any member. The minutes may, therefore, be confirmed.

Item No. 2.2 To report the action taken on the minutes of the 1st meeting of Building & Works Committee (BWC) held on 8.11.2002

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Item No.	Subject	Decision taken	Action taken
1.1	To consider the minutes of the 21 st meeting of the BWC held on 18.9.2001.	Minutes confirmed	No action is required.
1.2	To report the action taken on the minutes of the 21 st meeting of the BWC held on 18.9.2001.	The Committee noted the action taken on various decision taken by BWC. Item (14.3 & 15.2). The Chief Engr. PWD (B&R) was requested to expedite the installation of separate tube well for PWD Colony.	Tube well has not been installed by the PWD as yet and the matter is to be pursued by the Department of Haryana, PWD(B&R).
٠.		Item (17.7) The BWC approved the constn. of New Labs for the emerging areas in different disciplines with an estimated amount of Rs. 128.38 lacs.	A separate Item for revision of cost is being put up vide item No. 2.4. The work is completed and is being taken over soon.
		Item(17.9&1.8): The BWC approved the constn. of Extn. Block of Institute Guest House Building with RRCE amounting to Rs. 34.94 lacs.	
		Item(17.14): The BWC approved the proposal	Work is complete and taken over.

for the constn. of Shopping Centre-cum-Bank and Post office Buildg. at an estimated cost of Rs. 41.93 lacs.

Item(18.4) The BWC approved the RRCE

Item(18.4) The BWC approved the RRCE amounting to Rs. 14.95 lacs for construction of OHSR and Rs. 6.41 lacs for constn. of T.W. No.7.

Work is complete. A separate item is being put up vide item No.2.5.

Item(18.8) The BWC approved the RCE amounting to Rs. 10.05 lacs for Storm Water Drains and Garbage Bins in the Institute campus.

Work in progress.

Item (19.3) The BWC approved the RCE amounting to Rs. 167.62 lacs for constn. of 6 Nos. Lect. Theatres.

Constn. of 6 Nos. Lecture Theatres is complete and these are in use. Link Corridor is under construction.

Item (19.4)The BWC approved the RCE amounting to Rs. 221.80 lacs for Constn. of a Gymnasium Hall in the Institute.

Funds awaited

Item (19.5 & 19.6) The BWC approved the RCE amounting to Rs. 90.72 lacs & 44.73 lacs respectively for constn. of Conference Hall-cum-Retiring / Refreshment Room for Day Scholar in the Institute.

Work is in progress. A separate item for revision of cost is being put up vide item No. 2.6.

Item (19.7) The BWC approved the RCE amounting to Rs. 135.80 lacs for constn. of 7Nos. new labs in Mech. Engg. Dept. and

Work is in progress. A separate item for revision of cost is being put up vide item No. 2.9.

	2Nos.labs. in Computer	
	& Ec. Engg. Dept.	
	a re. rigg. Dept.	
	Item (19.8) The BWC approved the RCE amounting to Rs.46.24 lacs for the Provision of False Ceiling & Acoustic Treatment in Jubilee Hall. Item (19.9) The BWC approved the RCE of	over. A separate item for revision of Cost is being put up vide item No. 2.5.
	Rs. 18.31 Lacs for provision of Special Repair of Roads in REC Campus (out of College Development Fund).	· .9m
	Item (19.10) The BWC Approved the RCE amounting to Rs. 30.26 lacs for Renovation of Existing Reflection Tank.	Funds awaited.
	Item(19.11)The BWC approved the RCE of Rs.125.85 lacs for the provision of Glazed Tiles in Hostels, Guest House & Residences (Toilets & Kitchens) and Instructional Buildings (Toilet).	Funds awaited.
·	Item (19.12) The BWC approved the RRCE amounting to Rs. 78.56 lacs for constn. of 20Nos. F-type(600 Sft.) Residences for Class-III Employees.	Funds awaited.
	Item (19.14)The BWC approved the RCE amounting to Rs. 10.67 lacs for Renovation of Elect. installations in Hostel No. 4 & 5, Instructional Buildings & Resi. Buildgs. in the	Work completed.

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Item (19.15)The BWC approved the RCE amounting to Rs.18.39 lacs.for the constn. of Training & Placement Department in the Institute.

Funds awaited.

Item(19.18) The BWC approved the rough Cost estimate amounting to Rs. 5.00 lacs for carrying out Renovtn/Special repairs of Lawns in the College.

Funds received. Work is under progress. A separate item is being put up vide item No. 2.31amounting to Rs. 16.86 lacs.

Item (19.19&1.10) The BWC approved the RRCE amounting to Rs. 30.00 lacs for carrying out Renovtn/Special repairs of Hostels and residences.

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Rs. 10.00 lacs released during 2000-2001, Rs. 5.00 lacs in 2001-02, Rs. 10.00 lacs in 2002-03. & Rs. 5.00 lacs in 2004-05 and a separate item is being put up vide item No.2.32 amounting to Rs. 66.76 lacs.

Item (20.3) The BWC approved the RCE amounting to Rs.19.28 lacs for PCC Approach Path to the residences.

Rs. 19.28 lacs released during 2001-2002 & 2003-04. Work is nearly under completion & a separate item is being put up vide item No2.10.

Item(20.4) The BWC approved the RCE amounting to Rs.32.53 lacs for the construction of 32 No. Garages in Various Residences in the Campus.

Rs. 10.00 lacs is being released during Financial Year 2004-2005.

Item (20.5)The BWC approved the RCE amounting to Rs.6.41 lacs for the provision of front compound wall in E & F type Residences in the Institute.

Work is complete. Liabilities amounting to Rs 0.23 lacs are pending.

		Item (16.5 & 20.7)The BWC approved the RRCE amounting to Rs107.91 lacs for the Extn. of Lib. Building. Item (16.9 & 20.9)The BWC approved the RRCE amounting to Rs35.95 lacs for the Construction of Bearer Barracks.	Work is complete & taken over. -do-
	·	Item (17.16,20.11 & 1.9) The BWC approved the RRCE amounting to Rs. 64.15lacs for constn. of Community Centre in Institute.	Eunds awaited.
		Item (20.13) The BWC approved for auctioning the existing Gas Plant and to convert it into Canteen/any other utility.	BOG approved this item. Process of auction is in progress.
		Item (20.14) The BWC advised the PWD(B&R) to refer the case of unauthorised Diversion of College Plan grant by PWD (B&R) for the settlement of account of Sh. S R Aggarwal. NIT, Kurukshetra. for re-examination.	No response from PWD (B&R) so far.
	·	Item (21.3) The BWC approved the proposal for engagement of M/s National Buldg. Corporation Ltd. for the new construction work in NIT, Kurukshetra.	Most of the works have been allotted to NBCC Ltd. And their performance is satisfactory.
1.3	To consider and approve the RRCE for Construction of	Item (21.4 & 1.3) The BWC approved the RRCE amounting to	Rs. 216.65 lacs allotted during 2002-03 & Rs. 81.18 lacs during 2003-3004. The work

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	Additional (200 seater) New Girls Hostel instead of (150 Seater) Girls Hostel NIT, Kurukshetra.	1	is under Progress. A separate item is being put up vide item No.2.12.
1.4	To consider and approve REC for the Construction of (350 Seaters) Boys' Hostel in NIT, Kurukshetra	The BWC approved the RCE amounting to Rs. 593.38 lacs for the Construction of (350 Seaters) Boys' Hostel in NIT, Kurukshetra.	Funds awaited.
1.5	To consider and approve the Constn. of Front Compound Wall in G-type houses in NIT, Kurukshetra.		Work is complete and taken over. Liabilities of Rs. 0.14 lacs are pending.
1.6	To consider and approve the RCE for Construction of External Boundary Wall of the NIT, Kurukshetra.	RCE amounting to Rs. 59.92 5lacs for the	Funds received during 2003-04. A separate item is being put up vide item No. 2.14.
1.7	To consider and approve the RCE for provision of Renovation of toilets in the Instructional Builgs i/c replacement of PH fittings in NIT, Kurukshetra.	The BWC approved the RCE amounting to Rs. 10.65 lacs for provision of Renovation of toilets in the Instructional Builgs i/c replacement of PH fittings in NIT, Kurukshetra.	Work completed and taken over soon.
1.8	To consider and approve the RRCE for extension block of Guest House Bulg. (i/cRenovation of existing Guest House Bldg), in NIT, Kurukshetra.	The BWC approved the RCE amounting to Rs. 34.95 lacs for extension block of Guest House Buildg. (i/c Renovation of existing Guest House Bldg), in NIT, Kurukshetra.	Work is complete and likely to be taken over.
1.9	To consider and approve the RRCE for Constn. of Multi Purpose Room (Community Centre) in the NITk	The BWC approved the RCE amounting to Rs. 64.15 lacs for Constn. of Multi Purpose Room (Community Centre) in the NITK	Funds awaited.

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1.10	To consider and approve the RRCE for provision of Special Repair of Hostel, Instructional Buildings and Residences, NIT, Kurukshetra.	The BWC approved the RRCE amounting to Rs. 30.00 lacs for provision of Special Repair of Hostel, Instructional Bldgs. and Residences, NIT, Kurukshetra.	Work is in progress. A separate item is being put up vide item No. 2.15.
1.11	To consider and approve the Construction of Parking shed for vehicles at different places in NITK	The BWC approved the RRCE amounting to Rs. 5.00 lacs for Construction of Parking shed for vehicles at different places in NITK	Work is under progress and a separate item is being put up vide item No. 2.7
1.12	To consider and approve the RCE for Replacement of ACC sheets and provision of IRC fabrics in Workshop Block etc., NIT, Kurukshetra	The BWC approved the RCE amounting to Rs. 3.00 lacs for Replacement of ACC sheets and provision of IRC fabrics in Workshop Block etc., NIT, Kurukshetra.	Work is in progress and a separate item is being put vide item No. 2.8
1.13	To consider and approve Rough cost estimate for provision of PCC hard standing and path for parking vehicles in front of shopping centre-cum-Bank and Post office Building in NIT, Kurukshetra.	The BWC approved the RCE amounting to Rs. 9.78 lacs for provision of PCC hard standing and path for parking vehicles in front of shopping centre-cum-Bank and Post office Building.	Work is completed and taken over.

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Item No. 2.3 To consider & approve the RRCE for Re-construction of damaged/cracked/tilted Compound walls.

Many of the compound walls of the old residences got damaged or tilted over the period of time. The Building & Works Committee approved an estimated cost of Rs. 31.822 lacs for re-construction of these damaged walls. The scope of the work in some cases had to be changed during the execution, thus increasing the estimate. The revised estimate of Rs. 53.23 lacs as received from PWD(B/R) was approved by Building & Works Committee vide item No. 19.17. The entire amount was received by 2000-2001. However, the PWD (B/.R) has claimed an additional amount of Rs. 5.09 lacs to make the total estimate to Rs. 58.32 lacs which was approved provisionally by The Chairman, BWC in anticipation of approval of B&WC. The entire amount was received during 2003-2004.

It is, therefore, requested that the BWC may consider and approve the above proposal with an estimated cost of Rs. 58.32 lacs

ABSTRACT OF COST

S.No.	Qty.	Description of Item	Rate	Unit	Amount in Rs.
1.	1No.	Revised spl. repair estimate for the construction of damaged/cracked/tiltcd compound walls in the residential houses in the campus of NIT, Kurukshetra	-	-	56,74,10
		Add 1 ½ % contingencies, P.E. charges and 1% testing charges of material			1,41,852/-
		Total Rs.			58,15,952/-
		Add 14% departmental charges			8,14,233/-
		Total Rs.			66,30,185/-
		D/d credit of old material			(-) 7,98,520/-
		Balance			58,31,665/-
		Say Rs.			58.32 lacs

Sd/-Executive Engineer Provincial Division No. II Ambala Cantt.

Sd/-Sub Divisional Engineer, Ambala Provincial Sub Divisn.No.I, PWD (B&R), Ambala Cantt

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Item No. 2.4 To consider & approve the RRCE for Costn. of New Laboratories for the Emerging Areas in Different Disciplines

The Building & Works Committee approved the construction of following laboratories as a part of expansion of academic programs:

1. CIVIL ENGINEERING DEPTT:

- (a) Non-Destructive-cum-Motion Measurement Lab.
- (b) Environmental Engg.-cum-Advanced Water Resources Engg. Lab.

2. MECHANICAL ENGG. DEPTT:

- (a) Tribology Lab.
- (b) CAD/CAM & Robotics Lab.
- (c) Advanced Welding Lab.
- (d) Production Engg. Lab.

3. ELECTRICAL ENGG. DEPTT:

- (a) High Voltage Lab.
- (b) Instrumentation Lab.

4. **COMPUTER ENGG. DEPTT:**

- (a) Information Technology Lab.
- (b) Computer Vision Lab.
- (c) Advance Computing Lab.

5. **ELECTRONICS ENGG. DEPTT:**

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- (a) Circuit simulation Lab.
- (b) Audio/Video Engg. Lab.

The Building & Works Committee approved a rough cost estimate of Rs. 128.38 lacs for the construction of 2932 Sqm of area for the above laboratories in the form of extension of existing departmental blocks. The work is almost complete. The whole estimated amount was received by 2000-2001. However, for the purpose of connecting these blocks with the existing ones with same architectural view, the scope of work in terms of covered area increased to 3394.95 Sqm i.e. about 15.7% more, besides addition of scope of PH work and connecting corridor etc. Hence, PWD (B/R) has submitted a revised estimate of Rs. 160.67 lacs leaving a balance of Rs. 32.29 lacs. The Chairman, BWC provisionally approved this estimate in anticipation of approval of B&WC and a sum of Rs. 32.29 lacs was released by Government of India during the Plan year 2003-2004.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 160.67 lacs.

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Revised Rough Cost Estimate for the Extension of Academic Blocks Buildings of Elect. Mech. & Civil & Applied Mech. Engg. in NIT, Kurukshetra

Sr.	Description of Item	As per ap	As per approved R/C Estimate	stimate	As per	As per Revised Rough Cost Estimate	ıgh Cost
)		Qty. in	Rate Rs.	Amount	Qty. in	Rate Rs.	Amount
		sdm.	per sqm.	in Rs.	sdm.	per sqm.	in Rs.
-	Extension of Electrical Block						
	A) Ground Floor						
	i) Single Height	131.25	3500/-	4,20,000/-	173.28	3500/-	6,08,230/-
		140.55	3550/-	4,98,952/-	185.64	3750/-	6,96,150/-
	B) First Floor	131.25	3200/-	4,20,000/-	173.78	3500/-	6,08,280/-
	C) Second Floor	271.81	3550/-	9,64,925/-	295.95	3500/-	10,35,825/-
			Total Rs.	23,03,877/-			
2	Extension of applied Mech. & Mech. Engg.	678.35	3200/-	21,70,720/-	679.12	3500/-	33,76,920/-
33	Extension Civl Engg. Block	431.67	3200/-	1381,344/-	431.67	3500/-	15,10,845/-
4.	Computer Centre						
	A) Ground Floor	380.05	3200/-	12,16,160/	433.89	3500/-	15,18,615/-
	B) First Floor	907.17	3200/-	29,09,244/-	1021.62	3500/-	35,75,670/-
			Total Rs.	41,19,104/-		Total Rs	
3	Construction of CC paved app. Road	•	1	1	175.76	-/005	-/088,78
9	Provision for providing connectivity/ partition wall in existing block	ı		I	Provision	L.S.	2,00,000/-
7	Provn. for renovatn. of toilet in existing Elect. Block	1	1	1	Provision	L.S.	1,000,000/-
			Total Rs.	99,75,045/-			1,23,18,415/
	SERVICES						
∞i	Provision for providing E.I. internal Services	•	1	-/808,766	1	1	11,93,049/-
9.	Provin for providing PH internal & Estate Services	1	1	ı	I	1	3,75,334/-
			Total Rs.	109,72,853/		Total Rs.	138,86,798/
	Add 17% Denartmental & Arch.Charges			18,65,385/-	Add 7% De	Add 7% Deptt. Charges	21,80,227/-
			Total Rs.	128,38,258/		Total Rs.	160,67,025/
			Say Rs.	1,28,38,000/-	Say	Rs. 1,6	Rs. 1,60,67,000/-

Executive Engineer

Item No. 2.5 To consider & approve the RRCE for Acoustic Treatment in Jubilee Hall

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For proper utilization of Jubilee Hall, the acoustic treatment alongwith the false ceiling was proposed to be provided in the Jubilee Hall. Further, to make the complex suitable for dramatic use, special lighting effects, side wings and front screen on the stage were to be provided, besides provision of wooden flooring on the stage. The BWC approved this work amounting to Rs. 46.24 lacs vide item No. 19.8 held on 5.10.2000. The entire amount was received from Government of India during the financial year 2000-2001. This specialised work was allotted to National Buildings Construction Corp. Ltd.(NBCC) and the work has been completed. However, to make the hall further versatile, it was fully Air-Conditioned and very high resolution (4100 ANSI LUMENS) LCD projection facility was introduced besides replacing the existing Blow-Plast chairs by Godrej Audi-2 chairs in 1st 5 rows. For the better functionality, some more changes were done during the execution, e.g. in the main electric panel the auto changeover has been replaced by manual changeover; MCCBs for lighting DBs were changed with ELCBs; rating for UHBVN incomer has been changed from 250A to 100A; stage flooring from costly synthetic laminated wood to cheaper and natural parquet flooring; foyer flooring changed from Kota stone to Nitco tiles; all the 6 Nos. toilets renovated instead of partial renovation of 4 Nos. toilets; all the existing blow plast chairs were reconditioned; and some more minor changes. Due to the additional and slight deviation of scope of work the revised final expenditure as intimated by NBCC was Rs. 57.837 lacs. The revised final estimate was provisionally approved by the Chairman, in anticipation of approval of BWC. The entire amount was released by Govt. of India by 2003-2004 and the work was completed. However, an additional sum of Rs.0.83 lacs was spent for the provision of heating elements and associated accessories in the A.C. system, which was not included in the original estimate. This additional estimate was approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee. The additional requirement of Rs. 0.83 lacs has been sanctioned by Govt. of India in the Plan year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 58.66 lacs

Revised Cost estimate for Provision of Acoustic and False ceiling for Seminar Hall (Jubilee Hall)

The Approved costs of various components of the works are: --

SR. NO.	DESCRIPTION	TOTAL COST REVISED
1	CIVIL WORKS	1972393.00
2	ELECTRICAL WORKS	767239.30
3	STAGE LIGHTING & SOUND SYSTEM	738906.00
4	AIRCONDITIONING WORKS	1054975.00
5	LCD PROJECTOR, O.H.P., UPS etc.	568893.00
6	GODREJ CHAIR	85000.00
7	PODIUM	5000.00
		5192406.30
	Contingency Charges 1.26%	65424.32
		5257830.62
	NBCC Charges 10%	525783.06
	TOTAL	5783614.68

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The rate quoted by the contractor has been taken in estimate. Also the rates of substituted / additional items have been derived as per rules & got approved from our competent authority.

Sd/-Project Manager, NBCC at NIT, Kurukshetra

INTERIOR WORKS OF AUDITORIUM

SR. NO.	DESCRIPTION	TOTAL COST REVISED
1	CIVIL WORKS	1972393.00
2	ELECTRICAL WORKS	767239.30
3	STAGE LIGHTING & SOUND SYSTEM	738906.00
4	AIRCONDITIONING WORKS	1054975.00
5	LCD PROJECTOR, O.H.P., UPS etc.	568893.00
6	GODREJ CHAIR	85000.00
7	PODIUM	5000.00
8	HEATING SYSTEM	75000.00
		5267406.30
	Contingency Charges 1.57%	65424.32
		5332830.62
	NBCC Charges 10%	533283.06
	TOTAL	5866113.68
		Say Rs. 58.66 lacs
		Sd/- Project Manager, NBCC at NIT, Kurukshetra

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Item No. 2.6 To consider & approve the RRCE for Conference Hall-cum-Refreshment room for Day-Scholars

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The Institute organizes conferences, seminars, workshops etc. very frequently covering various disciplines. At present there is no Conference Hall in the Institute, thus causing a severe hardship during such occasions. Hence, it was proposed to construct a conference hall with a capacity of 125 (447 Sqm) equipped with false ceiling, acoustic treatment and modern Audio Visual amenities; and a refreshment Hall that would cater the need of day scholars as well as delegates attending Conferences. The BWC approved this composite work with an estimated rough cost of Rs.90.72 lacs and Rs 44.73 lacs (i.e. a total of Rs. 135.45lacs) vide item No. 19.5 and 19.6 respectively. The refreshment room meant for the Conference Hall as well as day scholars covering 447 Sqm being the composite part of the building was constructed at the ground floor of the Conference Hall. An amount of Rs.90.72 lacs was released by Govt. of India during the financial year 2001-02 and the balance amount of Rs. 44.73 lacs was released during the Plan Year 2002-2003. The above estimates were framed by PWD (B/R) considering load bearing walls. However, the construction of the building was done on frame structure with raft foundation due to treacherous soil conditions prevailing at site. Besides, keeping in view the recent upgradation of this Institute by the Ministry of Human Resources Development, and possibility of future expansion, the layout has been redrawn commensurate to the University standard. Thus, the total area was worked out at 1376 Sqm instead of 894 Sqm as envisaged in the earlier estimate. Further, the Conference Hall was proposed to be equipped with Split type A.C.; False ceiling & acoustic treatment; furniture with Godrej chairs; audio visuals including LCD projector (4100 ANSI LUMENS), OHP, Audio conferencing kit for chairperson and full strength delegates, Laptop connectivity for delegates; and P.A. system for the chairperson. Thus, the cost increased by about 25%. To bring down the cost within a reasonable limit, some of the above provisions were curtailed e.g. false ceiling in canteen part, connecting passage, Laptop connectivity for delegates, LCD projector, and some ornamental provisions. However, to make the conference Hall fully operational, it is has been decided to shift two Nos. LCD projectors from the newly constructed lecture theatre complex (out of 2 Nos. provided there) to the Conference Hall for the time being. On the basis of above exercise, the revised cost for the above work was worked out at Rs. 148.80 lacs as received from NBCC. The revised estimate was provisionally approved by the Chairman, BWC, in anticipation of approval of BWC. The entire amount was received from MHRD by 2003-2004. However, on completion of the job, it was observed that the low power LCD projector (1100 ANSI lumen) is not suitable for clear projection on the screen. Hence, a high resolution LCD projector may be required to be installed in the Conference Hall. Besides, some more works to be done before putting the building into service, e.g. E I external services, one fountain in the front, furniture for crash Hall, Office etc. beautification of canteen roof etc. etc. To make fome of the above provisions, an additional sum of Rs. 10.00 lacs is required, which was approved by the Chairman, Building & Works Committee., in anticipation of approval of BWC. The Govt. of India sanctioned Rs. 10.00 lacs for the above purpose during 2004-05 so that the work can be completed and taken over.

The BWC may consider and approve the revised estimate of Rs. 158.80 lacs as stated above.

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APPROVED COST REVISED COST CIVIL WORK	148.80	RS. IN LAKHS
SCHEDULE ITEMS		6032178.14
NONSCHEDULE ITEMS		843528.75
ADDITIONAL ITEMS		1531371.11
PHE		
SCHEDULE ITEMS		288837.84
NONSCHEDULE ITEMS		102320.70
ADDITIONAL ITEMS		14000.00
ELECTRICAL WORK		
SCHEDULE ITEMS		120348.79
NONSCHEDULE ITEMS		320791.25
PAVEMENT		445256.74
ACCOUNTE FURNITURE		929118.00
ACCOUSTIC FURNITURE GODREJ CHAIR		1343647.50
AUDIO VISUAL		671935.00 634000.00
ADDITIONAL AUDIO		264000.00
VISUAL		264000.00
HEATING SYSTEM		45000.00
LCD PROJECTOR		543000.00
	_	14129333.82
CONTINGENCY		235269.84
		14364603.66
NBCC CHARGES @ 10%		1436460.37
Miscellaneous		79000.00
TOTAL	· _	15880064.03

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Gross Total 158.80 Lacs

Revised Estimate for Conference Hall cum refreshment room for day scholars

History: The approved cost is Rs. 148.80 Lakhs which are as under:-

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A	Civil works					
	a)	Schedule Items	Rs 6032178.14			
	b)	Non schedule Item	Rs. 843528.75			
	c)	Additional/ substitute item	Rs 1531371.11			
В.	P.H.	works	·*· *****			
	a)	Schedule Items	Rs 288837.84			
	b)	Non schedule Item	Rs. 102320.70			
	c)	Add. / Substitute Item	Rs 14000.00			
c.	Elect	rical Work				
	a)	Schedule Item	Rs 120348.79			
	b)	Non Schedule Item	Rs 320791.25			
D.	Pave	ments	Rs 445256.74			
E.	Air c	onditioning Work	Rs 929118.00			
F.	Acco	coustic & Furniture Rs 1259750.00				
G.	Godrej Chair Rs. 590450.00					
н.	Audi	o Visual	Rs 673571.20			
I.	Link	corridor upto plinth	<u>Rs 140558.79</u>			
		Total	13292081.31			
		Contingencies 1.77%	<u>235269.84</u>			
		Total	13527351.15			
	NBCC Charges 10% Total		1352735.11			
			Rs. 14880086.26			
	Say Rs. 148.80 lacs					
			Sd/- Project Manager NBC			

Item No. 2.7 To consider & approve the RRCE for Construction of Parking sheds

For the purpose of providing low cost fibre glass mounted parking sheds around the Instructional and Administrative buildings, a sum of Rs. 5.00 lacs was provided by Govt. of India for 30m Nos. parking shed during the financial year 2002-2003. The proposal was approved by the Building & Works Committee vide item No. 1.11. The revised estimates for 30 Nos. sheds, already constructed around the instructional buildings, was worked out at Rs. 6.345 lacs which was approved provisionally by the Chairman, in anticipation of approval of BWC. Keeping in view the usefulness and additional requirement of these parking sheds a further amount of Rs. 10.11 lacs was allotted by MHRD for the construction of about 40 Nos. more such parking sheds around the instructional buildings and hostels. The whole amount of Rs. 15.11 lacs was received during 2003-04.

It is, therefore, requested that the BWC may consider and approve the RRCE above of Rs. 15.11 lacs for the construction of 40 Nos. parking sheds.

ESTIMATE FOR PARKING SHED AT NIT, KURUKSHETRA SR. NO. DESCRIPTION UNIT QTY RATE AMOUNT

1 Providing and fixing parking shed 3.20M x 4.85 M dimension on plan as per sketch attached made out of 100 mm dia vertical pipe and 50x20mm Rectangular Tube (16 SWG) including side cover or back cover whenever required including painting all steel portion by one coat of steel primer and two coats synthetic enamel paint Quality, Top cover with Fibre glass sheet any colour of 400 gms/SFT of make "Gold water" equivalent, including breaking of existing P.C.C. excavation and 1:2:4 concrete size 0.45 m x 0.45 m x 0.60 m deep and disposal of surplus earth, debris etc including all Each nut and bolt etc all complete. Shed

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40 34753.00 1390120.00

1390120.00

NBCC CHARGE @ 8% 111209.60

TOTAL 1511329.60 Say 15.11 Lacs

Item No. 2.8 To consider & approve the RRCE for Replacement of ACC sheets and provision of IRC fabrics in Workshop Block

The age-old ACC sheets provided in the Workshop block have outlived their lives, thus needing replacement. Similarly, some IRC fabrics are to be provided in the glazing portion preventing possible theft and intrusion of birds. It was, therefore, proposed to replace some of the ACC sheets as well as provide IRC fabrics in the Workshop Block at an estimated cost of Rs. 3.00 lacs. The proposal was approved by the Building & Works Committee vide item No. 1.12. The estimated amount of Rs. 3.00 lacs was release by Govt. of India during the financial year 2002-2003. The work is in progress. However, due to increase in scope of work, the revised estimate as received from NBCC amounting Rs.5.732 lacs was approved provisionally by the Chairman, BWC in anticipation of approval of BWC. The balance amount of Rs.2.732 lacs was released by MHRD during the financial year 2003-2004. However, some more portions of the Workshop needs replacement of old ACC sheets as well as provision of false ceiling in some labs. housed in the workshop block. For this purpose, an additional sum of Rs. 10.00 lacs is required. This estimate was approved by the Chairman, BWC in anticipation of the approval of BWC. The above estimate has been accepted by Govt. of India and a sum of Rs. 5.00 lacs is being released during 2004-2005.

It is therefore, requested that the BWC may consider and approve the RRCE of Rs. 15.73 lacs for the above purpose.

Replacement of ACC Sheet in workshop

Total No. of Damaged A.C.C. Sheet → 190 Nos (3Mx1M) Item:13.20 HSR → 570sqm @ (73.50 + 100% CP) Rs. 147/-sqm = 83790.00Add escalation due to increase in cost of material & labour during last 1 year 5% <u>= 4189.50</u> = 87979.50Add NBCC Charges 8% 7038.36 = 95017.86 Say 0.95 Lakhs Provision of IRC Fabric (Welded Mesh) in Workshop Estimated Cost Analysis For 3.00x1.75M = 5.25sgm 42.75 M.S. Angle $50x50x6 \rightarrow 9.5M @ 4.50kg/m$ 40x40x4 → 10.0M @ 2.40 kg/m 24.00 **--→** 66.75 kg Wastage 5% 3.34 1961.40 70.05 kg @ 28.00 IRC fabric 1.75x3.00 = 5.25 sgm(75x25x3.25 dia wire) 0.2625 sqm 882.00 5.5125 sqm @ 160.00/sqm Synthetic Enamel Paint L.S. 300.00 275.00 Erection/□caffolding L.S. Welding to existing Truss & nut & bolt system L.S. 350.00 3768.40 CP & OH 15% 565.26 4333.66 .: Cost per sqm = $\frac{4333.66}{1}$ 5.25 = Rs. 825.46/sqm Rs. 1366136.30 Total Cost → 1655.00Sqm @ 825.46 Add NBCC Charges 8% 109290.90 Rs. 1475427.00 Miscellaneous Rs. 98000.00 1573427.00 Rs Say Rs. 15.73 lacs

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Item No. 2.9 To consider & approve the RRCE for Construction of 7 Nos. New labs. in Mechanical Engineering Department and 2 Nos. labs. in Computer & Electronics Engineering Department

National Institute of Technology, Kurukshetra has been growing fast keeping in pace with the Global developments in Science and Technology. As a follow up, the Institute has identified the emerging areas in various disciplines where further development is necessary. To fulfil these requirements, various teaching departments viz. Civil Engg., Mechanical Engg., Electrical Engg., Computer Engg. and Electronics & Comm. Engg. have planned to expand/upgrade some of the laboratories in emerging areas. A total of 22 such laboratories were envisaged to be constructed in the Institute. The matter was placed before Building & Works Committee in its 17th meeting vide item No. 17.7. The Building & Works Committee approved the construction of the above 22 Nos. labs. However, in the first phase, funds for the construction of 13 Nos. labs. was sanctioned by the Government of India during the plan year 1999-2000. Thereafter, it was proposed to construct the remaining 9 Nos. laboratories as shown below:

1. Mechanical Engg. Department

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(i)	Machine Vision Lab	150 sqm
(ii)	Computer Assisted Machine	200 sqm.
	Drawing Hall	
(iii)	Industrial Engg. Lab.	200 sqm.
(iv)	Cryogenic Engg. Lab.	150 sqm
(v)	Combustion Engg. Lab.	150 sqm
(vi)	Adv. Heat & Mass Transfer Lab	200 sqm.
(vii)	Non-conventional Energy Lab.	200 sqm.

2. <u>Computer Engg. Department</u>

(i) Software Engg. Lab. 300 sqm

3. <u>Electronics Engg. Department</u>

(i) Product Design Lab. 200 sqm.

The estimated cost for the construction of the above 9 Nos. Labs was worked out to be Rs.135.80 lacs and the Building & Works Committee approved the same in its 19th meeting held on October 5, 2000 vide item No.19.7. These labs have been clubbed together to construct a new block to be occupied by Computer Engg. Deptt. for which no separate block is available at present. The entire amount of Rs.135.80 lacs has been received by 2002-03. However, to make the building functional, it is necessary to provide A.C.s and associated fittings in three of the labs. for which an additional amount of Rs. 12.00 lacs is required. This provision has been approved by the Chairman, Building & Works Committee in anticipation of approval of BWC.

The MHRD, Government of India has sanctioned an additional sum of Rs. 12.00 lacs in the current financial year for the above work..

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 147.80 lacs

ABSTRANCT OF REVISED COST ESTIMATE FOR COMPUTER LAB BUILDING AT NIT KKR

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RS. IN LAKHS

APPROVED COST	135.80
REVISED COST	
CIVIL WORK I/C WATER PROOFING WORK/ FRP DOME	121.66
AIRCONDITIONING WORK	7.50
AC PANEL	2.70
ALUMINIUM WORK	0.50
MISC. WORK SUCH AS SEWER LINE STROM WATER LINE	2.00
	134.36
NBCC CHARGE @ 10%	13.44
TOTAL	147.80
NBO	Sd/- Project Manager, CC at NIT, Kurukshetra

Item No.2.10 To consider and Approve the RRCE for Provision of PCC <u>Approach Path to the residences</u>

In National Institute of Technology, Kurukshetra there are about 400 residences for Teaching & Non-Teaching staff. Most of these residences constructed decades back were not provided with approach path. These residences were connected to the metal road with temporary brick paths, which are subjected to settlement and frequent damages besides having growth of grass. It was, therefore, proposed that these residences may be provided with concrete approach path as have been provided in newly constructed houses. Accordingly, the BWC approved the rough cost estimate amounting to Rs.19.28 lars vide item No. 20.3 held on 31.5.2001. The entire amount was released by Govt. of India by 2003-2004 and the work is under completion. However, an additional amount of Rs. 5.00 lacs is required to wind up the work, which has been approved by the Chairman, Building & Works Committee in anticipation of approval of BWC. The balance amount of Rs. 5.00 lacs is being released by MHRD during the financial year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 24.28 lac for the above work.

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REVISED ESTIMATE SUBMITTED BY NBCC LTD. FOR PAVEMENT IN TOWNSHIP

Province	 Haryana
Distt.	 Kurukshetra
Division	NIT Works, Kurukshetra
Name of Work	Pavement in Township
Approved Cost	 Rs. 12.28 Lakhs
Revised Cost	 Rs. 24.28 Lakhs

Sd/-Project Manager, NBCC at NIT, Kurukshetra

REVISED ESTIMATE FOR PAVEMENT WORK IN RESIDENCES

Dismantling Brick work, Tile Masonry or Tile Lining & Tile Terracing. 55.00 20588.15 374.33 Cum (d) 24493.50 150.00 (b) In Cement Cum 163.29 (Including sorting & stacking dismantled, material & removing the same within a distance of 48790.80 2 1084.24 45.00 6.6 Earthwork in excavation in foundations, trenches, Cum etc. in all kinds of soils, not exceeding 2 meters depth including dressing of bottom and side of trenches, stacking the excavated soil, clear from the edge of excavation & subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 meters. 3 10.132 Cement Concrete 1:2:4 with stone aggregate 20 Cum 884.00 1975.00 **1745900.00** mm nominal size in pavements, roads, taxi-tracks & runways, laid to required slope & camber, including consolidation, finishing & tamping complete. 190000.00 NS Supplying & filling fine sand under floor including, 950.00 200.00 watering & ramming consolidation complete. 26745.60 5 445.76 60.00 Labour charges for laying brick soiling to an Cum approved bond, with brick on end edging, on approved sub grade, filling joints with sand. (Brick will be issued by the department, only labour to be quoted) 6 Cum 125.51 950.00 119234.50 Providing & Laying brick soiling to an approved bond, with brick on end edging, on approved sub grade, filling joints with sand. (This item includes cost of bricks) 62.00 67256.36 7 Disposal of excavation earth lead more than 0.48 KM upto 1084.78 NS 1 Km 2243008.91 **NBCC CHARGES** 179440.71 @ 8% 5500.00 Misc. Ch. 2427949.62 TOTAL Say Rs. 24.28 lacs Sd/-Project Manager, NBCC at NIT, Kurukshetra

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Item No. 2.11 To consider & Approve the RRCE for Provision of front compound wall in E & F type residences in the Institute.

The E & F type residences in the Institute, meant for the Non-Teaching Staff, were not provided with front boundary walls, thus exposing the residences to trespassers and cattle heads. There had been a consistent demand from the Non-Teaching Union for the provision of front boundary walls in 102 Nos. of the residences of the above categories. The Building and Works Committee approved the rough cost estimate amounting to Rs.6.41 lacs in its 20th meeting vide item No. 20.5 held on 31.5.2001 out of which Rs. 3.00 lacs was released during 2001-02 and the remaining amount of Rs. 3.41 lacs was released during the financial year 2002-2003. The work has been completed and taken over. To wind up the account, a sum of Rs. 0.23 lacs is to be paid to PWD(B/R), which has been approved by the Chairman, Building & Works Committee in anticipation of approval of BWC. So, a sum of Rs. 0.23 lacs was sanctioned by Govt. of India during 2004-2005.

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It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 6.64 lacs to clear the liabilities to PWD (B&R).

Item No. 2.12 To consider and Approve the RRCE of Construction of additional 200 seater Girls' Hostel

The present Girls Hotel having a capacity of 91 seats was constructed in two phases. Earlier, the number of girl students taking admission in Engineering disciplines was negligible, which increased manifold since last decade. Consequently, there is increasing demand of seats accommodation the girls' hostel. At present the girl students residing in girls hostel are 135 comprising B.Tech., M.Tech. and Ph.D. students. Due to the shortage of accommodation in the Girls Hostel, some girl students used to decline admission in Regional Engineering College(presently National Institute of Technology), Kurukshetra. Despite that the girl students taking admission in the College is about 10% of the total strength of 1600 i.e. a strength of 160. Since more and more number of girl students are interested to come in the engineering stream and intake of the students is expected to be augmented in near future, it was anticipated that the strength of girl students would cross more than 300 Nos. in the immediate future. Thus, there is a need to augment the capacity of the Girls Hostel by atleast 200 seats.

The matter was placed before the 21st meeting of Building & Works Committee vide Item No. 21.4 for construction of a 120 seater Girls' Hostel with an estimated cost of Rs. 204.54 lacs. The Building & Works Committee approved the estimate as submitted by State PWD(B&R). Later, it was decided to construct a 200 seater Hostel in place of 120 seats,

keeping in view the expected increase in intake capacity. The NBCC submitted an estimate of Rs. 297.83 lacs, which was approved by the BWC vide item No.1.3.

The Govt.of India released Rs.216.65 lacs against this work during the financial year 2002-2003 and Rs.81.18 lacs during 2003-2004 respectively. The work is in progress and the final cost was anticipated to increase due to the fact that the building is being constructed on partial frame structure with rich specifications (due to bad soil conditions) including provision of raft foundation. Further, additional stair cases have been provided for the convenience of the girl students. In this estimate, the cost of the boundary wall (7ft high with Y-shaped barbed wire fencing), approach path, furniture etc were not included. The cost of these additional items including 10% departmental charges for NBCC comes to Rs. 77.43 lacs, which has been approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee. Hence, which is being released by Govt. of India during the financial year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 375.26 lacs

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ABSTRACT OF COST

History: The approved cost is Rs. 297.83, which are as under: -

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Sr. No.	Description	Area	Unit	Cost	Amount
A	BUILDING PORTION				
1	Ground Floor Only	868	Sqm	3450/-	2994600.00
2	Ground Floor	1367	Sqm ,		
3	First Floor	1367	Sqm	4050/-	
4	Second Floor	1357	Sqm	1030,	
5	Mumty	40	Sqm		16730550.00
6	Balcony	614	Sqm	2250/-	1381500.00
				(A)	21106650.00
В	ADDITIONAL WORK				
1	Constn. of Boundary Wall	350	RM	3000/-	105000.00
2	Check Post & gate			L.S	100000.00
3	Provision of Concrete Road	56	Sqm	400/-	22400.00
4	Provision of Curb & channel	112	RM	225/-	25200.00
				(B)	1197600.00
С	SERVICES				
1	P.H. Internal Service @ 7% of building cost i.e. 21106650.00				1477465.00
2	Internal electrical work @ 10% of 21106650.00				2110665.00
3	Provision of Land scaping L S				50000.00
4	Ext. water supply & sewerage L.S.				500000.00
5	Furniture Room				633200.00
				(C)	4771330.00
D	Provision of Furniture as per list attached		2419000.00		
	Provision of fire fighting /fire alarm system		500000.00		
	Provision of computer & allied wares		1000000.00		
	Provision of Ext. elect. Work HT/LT Supply	500000.00			
	Total	4419000.00			
			A+ B+ C Charges 10%		27075580.00 2707558.00
				Total	29783138.00

Sd/-Project Manager, NBCC at NIT, Kurukshetra

The Cost of this building has been increased; accordingly the revised cost estimate for Rs 375.25 Lakhs has been framed by Annexure I attached.

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CIVIL WORKS	Up to Plinth	Package - A	Package - B	Total
SCHEDULE ITEMS	5042966.95	11409909.42	7587137.85	
NONSCHEDULE ITEMS	40654.00	2450050.00	1656080.00	
	5083620.95	13859959.42	9243217.85	28186798.22
P. H WORKS				
SCHEDULE ITEMS	0.00	282902.02	189046.26	
NONSCHEDULE ITEMS	0.00	380508.00	248210.00	
	0.00	663410.02	437256.26	1100666.28
ELECTRICAL WORKS				
SCHEDULE ITEMS	0.00	386771.57	258128.11	
NONSCHEDULE ITEMS	0.00	935005.00	471850.00	
	0.00	1321776.57	729978.11	2051754.68
TOTAL	5083620.95	15845146.01	10410452.22	31339219.18
2				
ADDITIONAL ITEMS				
(RCC JALI/ P H / Electrical)				400000.00
BOUNDARY WALL OF				800000.00
GIRLS HOSTEL				
CHECK POST & GATE			L.S	100000.00
PROVISION OF CONCRETE PAVEMENT				400000.00
PROVISION OF CURB & CHANNELS				25200.00
FURNITURE (ROOMS)				1000000.00
PROVISION OF LANDSCAPING			L.S	50000.00
				34114419.18
		NBCC C	HARGES @ 10%	3411441.92
			TOTAL	37525861.10

Sat. Rs. 375.26 lacs

Sd/-Project Manager, NBCC at NIT, Kurukshetra

Item No. 2.13 To consider and Approve the RRCE for Construction of Front Compound Wall in G-type houses

G-type residences meant for class-IV employees, there was no front boundary wall, thus exposing the houses to cattle and trespassers. Hence, it was proposed to construct front boundary walls in these residences with an estimated cost of Rs.3.95 lacs. The Building approved the proposal & Works Committee vide item No. 1.5 and the entire amount of Rs.3.95 lacs was released by Govt. of India during the financial year 2002-2003. The work has been taken over, and to clear the pending liabilities of PWD (B&R) Haryana. Rs. 0.14 lacs is being released by the MHRD during the financial year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 4.09 lacs

Item No. 2.14 To consider and approve the RRCE for Construction of External Boundary Wall round the Institute

The National Institute of Technology, Kurukshetra is situated in a remote location over an area of about 300 acres. At present, the entire area is exposed from all sides causing potential threat from miscreants/trespassers and cattle heads etc. Due to security hazard, it has become imperative to construct boundary wall around the Institute over a length of about 3500 rm. The proposal was approved by the Building & Works Committee vide item No. 1.6. and the estimated amount Rs. 59.92 lacs (5ft-11½ inches height, 9 inches thick brick wall) was released by MHRD during the financial year 2003-2004. Before taking up the construction, the matter was referred by the Director to a high power committee to suggest suitable design for the boundary wall. The Committee, after considering all aspects including strength, effectiveness and life of the structure, recommended the construction of 7ft high RCC wall with broken glass pieces on the top. Thus, the estimated cost of the structure increased to Rs. 111.24 lacs. The revised estimate of Rs. 111.24 lacs has been approved by the Chairman, BWC in anticipation of the approval of BWC. An additional sum of Rs. 51.32 lacs is being released by Govt. of India during the financial year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 111.24 lacs for the construction of external boundary wall around the Institute.

REVISED ESTIMATE SUBMITTED BY NBCC LTD. KURUKSHETRA FOR BOUNDARY WALL AROUND AT NIT CAMPUS

Province ------ Haryana

Distt. ----- Kurukshetra

Division ----- NIT Works, Kurukshetra

Name of Work ----- Boundary Wall around NIT

Campus

Approved Cost ----- Rs. 103.00 Lakhs

Revised Cost ----- Rs. 111.24 Lakhs

REVISED ESTIMATE SUBMITED BY NBCC LTD., KURUKSHETRA FOR BOUNDARY WALL AROUND NIT CAMPUS AT KURUKSHETRA

History: -

The approved cost is Rs. 103.00 Lakhs. The cost of this work has been increased. Accordingly the revised cost estimate for Rs. 111.22 Lakhs has been framed by Annexure attached.

Rate: -

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The rate quoted by the contractor has been taken in estimate. Also rate of substituted/Additional items have been derived as per set procedure & got approved from Competent authority.

Specification: -

The work shall be carried out in accordance with PWD specification 1990 edition for Schedule Items and manufacturer's specification/CPWD specification for Non- Schedule items.

(Dy. Project Manager)

REVISED ESTIMATE FOR BOUNDARY WALL AROUND THE CAMPUS OF NIT KKR.

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SR. NO.	HSR ITEM NO.	DESCRIPTION	UNIT			CP AS ON JULY'0 3	RATE	AMOUNT
1	6.6	Earth work in excavation in foundationss, trenches, etc. in all kinds of soils, not exceeding 2 meters 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			* 11F9			
2	10.39	30 meters. Cement Concrete 1:4:8 with stone aggregate 40mm nominal size in	Cum	5390.00	11.08	250%	38.78	·209024.20
3	10.90	foundation & plinth. Cement Concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc., excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects, (For work upto 1.5 meters below ground	Cum	399.00	403.10	170%	1088.37	434259.63
4	10.87	level) Cement concrete 1:2:4 stone aggregate 20mm nominal size for reinforced concrete work for walls (10 cm to 20 cm thickness) straight and curved excluding steel reinforcement but including centering and shuttering, laid in position, complete in	Cum	719.25	687.10	170%	1855.17	1334331.02
	10.95 (a)	all respects Extra over item nos. 10.79 to 10.94, if 1:1.5:3 mix is	Cum	1331.92 2051.17	1400.00 86.90	170% 170%	3780.00 234.63	5034657.60 481266.02

					Say	y Rs. 111	.24 Lacs
					•	TOTAL	11122396.54
				NBC		RGES 8%	823881.23
		· win	2223.00	NDO	0.01145	_	10298515.31
10	NS	Providing & fixing Glass Pieces on top of Boundary Wall Rmt	3500.00	5.00		21.42	
9	NS	Extra for exposed concrete finish (Derive from HSR 9.5) (Where smooth exposed concrete finish is desired, additional rate of 33-1/3 percentage shall be payable on item of labour rates where such finish is desired) Sqm	20230.00	1040.35 6.55	225%	21.29	41197.86 430646.13
8	18.12	Wrought iron & mild steel (using angles, flats square bars, tes & channels) ladders, grills, gratting frames, window gaurds, iron doors openable or fixed stair case or parapet or any other type of railing, gates and tree gaurds etc, including cost of screws and welding rods of bolts and nuts complete fixed in position Qtl	19.00	1040.25	120%	2288 77	44407.96
	(a)	with surplus excavated from foundation and taken only from outside the building plinth, in 15cm layers including ramming watering and consolidating lead upto 30 Meters Cum	3871.70	3.43	220%	10.98	42495.78
7	18.22 6.13	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. Qtl Earth filling under floors	1050.47	917.05	130%	2109.22	2215667.08

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(Dy. Project Manager)

Item No. 2.15 To consider and approve the RRCE for Special repairs/renovation of Plastering, Flooring & PH fittings in Messes & Toilets in Hostel Nos. 1 to 5.

In National Institute of Technology, Kurukshetra there are 5 Nos. UG boys Hostels, which were constructed more than 35 years back. The Messes in these Hostels have become extremely shabby due to swelling of plaster in the kitchen, service counter, pantry, dining hall, recreation room etc. These rooms need complete renovation by way of re-plastering and distempering etc. Similarly, the public health fittings, floorings and plastering in toilets have also outlived their lives needing complete renovation. It was, therefore, proposed to carry out special repair/renovation in the above 5 Nos. boys Hostels of the College at an estimate cost of Rs. 69.48 lacs.

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The Building & Works Committee approved the above proposal vide item No. 21.9. and a sum of Rs. 69.48 lacs was released by MHRD during the financial year 2003-2004. While taking up the job, it was found that the joineries in the dinning halls and recreation rooms including the door and window shutters also need replacement. Thus, the scope of work was slightly modified. The NBCC has already tendered the entire work with revised scope and specifications for Rs. 96.97 lacs, which has been approved by the Chairman, BWC in anticipation of the approval of BWC. An additional amount of Rs. 51.32 lacs is being released by Govt. of India during the financial year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 96.97 lacs.

ROUGH COST ESTIMATE FOR SPECIAL REPAIRS IN TOILETS & MESSES OF HOSTEL NO. 1 TO 5

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DISMANTILLING ITEM	
H S R ITEMS	Rs 259990.00
NON SCHEDULE	Rs33290.70
Sub Total	Rs293280.70
CIVIL WORK	,
H S R ITEMS	Rs 5106072.23
NON SCHEDULE	Rs846820.70
Sub Total	Rs <u>5952892.93</u>
SANITORY WORK	
H S R ITEMS	Rs 934927.98
NON SCHEDULE	Rs692220.95
Sub Total	Rs 1627148.93
<u>ELECTRICAL</u>	
NON SCHEDULE	Rs 74600.00
	,
W 5	Rs 7947922.56
N B C C CHARGES 8%	635833.80
TOTAL	Rs8583756.36
	Sd/-
	Project Manager,
	NBCC at NIT, Kurukshetra

REVISED ESTIMATE FOR SPECIAL REPAIRS IN TOILETS & MESSES OF HOSTEL NO. 1 TO 5

Rs	272990.48
Rs	10580.00
Rs	283570.48
	,
Rs	6306000.17
Rs	634456.00
Rs	6940456.17
Rs	944276.28
Rs	692910.00
<i>R</i> s	1637186.28
Rs	118000.00
Rs	8979212.93
	718337.03
Rs	9697549.96
	Say Rs. 96.97 lacs
	RsRsRsRsRsRsRsR

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Project Manager,

NBCC at NIT, Kurukshetra

Item No. 2.16 Revised Rough Cost Estimate for New Additional Block & Seminar Hall Building

The new additional Block (AB Block & the seminar hall) Jubilee Hall were constructed by PWD (B &R) about 15 year back. The entire amount as per the estimated cost was received from Govt. of India and paid to PWD B&R). However, the PWD(B&R) intimated that a sum of Rs. 1.72 lacs was over spent due to slight change in scope of work. The Govt. of India has already released the above amount during the plan year 2004-2005.

The Building & Works Committee may consider and approve the above expenditure so that the pending liabilities of Rs. 1.72 lacs can be cleared.

Item No. 2.17 To consider & approve the RRCE for the construction of Computer & Electronics Engg. Lab.

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The Computer & Electronics Engg. Lab. were constructed by PWD (B&R) about 16 years back. The entire amount as per the estimated cost was received from Govt. of India and paid to PWD B&R). However, the PWD (B&R) intimated that a sum of Rs. 0.45 lacs was over spent due to slight change in scope of work. The Govt. of India has already released the above amount during the plan year 2004-2005.

The Building & Works Committee may consider and approve the above item to clear the pending liabilities of Rs. 0.45 lacs as stated above.

Item No. 2.18 Revised Rough Cost Estimate for Spl. Repairs to Bldgs i.e. Civil Engg. <u>Deptt., Hostels & Residences</u>

Special repairs to Bldgs i.e. Civil Engg. Deptt, Hostel & Residences etc. was carried out by PWD (B&R) about 22 years back. The entire amount as per the estimated cost was received from Govt. of India and paid to PWD B&R). However, the PWD(B&R) intimated that a sum of Rs. 0.10 lacs was over spent due to slight change in scope of work. The Govt. of India has already released the above amount during the plan year 2004-2005.

The Building & Works Committee may consider and approve the additional expenditure of Rs 0.10 lacs as stated above.

Item No. 2.19 To consider and approve the RCE for Construction of New Equipment shop in Workshop.

The Workshop section of the Institute has received funds to the tune of 10 million from TEQIP Scheme of Govt. of India for the purpose of purchase of modern equipments for the Workshop. The purchase process is in advance stage. The following equipments/machinery are proposed to be purchased under the TEQIP Scheme:

Phase-I (Area in Sq. Ft)							
Name of Machine	No. of M/c	Area required	Area required for M/c (Approximate)				
		Floor Area	Operational Area	Area /M/c			
CNC Lathe	3 Nos.	400	200	600	. 1800		
Vertical Machining Centre	1 No.	800	400 -27	1200	1200		
Computers etc.	-	100	100	100	100		
Spot welding M/c	1 No.	100	50	150	150		
Scam Welding M/c	1 No.	100	100	100	100		
Instructional Area	-	Common	for all the machines		650		
Total:					4000		
Phase-II (Area in Sq. Ft					a in Sq. Ft)		
CNC Lathe	3 Nos.	400	200	600	1800		
Horizontal	1 No.	1000	500	1500	1500		
Machining Centre							
Coordinator	1 No.	800	200	1000	1000		
Measuring M/c							
Wirecut EDM	1No.	800	200	1000	1000		
Plastic Injection Molding Machine	1 No.,	800	400	1200	1200		
		Total		J	6500		
Class room + Tut. Room + Office of W/S							
Add 30% circulation area							
G	Grand Total of space requirement						
		•	•		15,600 Say 1560		
					Sq.m		

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The existing space in Workshop is insufficient for the proposed machinery & equipments. These machineries being very sophisticated need dust free environment, which is not available in the existing Workshop (industrial shed). Keeping this in view, it is proposed that a new block with RCC roof be constructed to house these modern machineries. Besides, some class rooms & staff rooms are also proposed to be constructed contiguous to the equipment hall.

The estimated cost for the above block (1560 Sqm.) has been worked out be to Rs. 78.00 lacs which has been approved by the Chairman, B&WC of the Institute in anticipation of the approval of the B&WC. To initiate the construction, a sum of Rs. 50.00 lacs is being released by Govt. of India during the Plan Year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 18.67 lacs for each park.

ROUGH COST ESTIMATE FOR SECURITY LIGHTS & BOUNDARY AROUND COMMUNITY PARK AT NIT, KURUKSHETRA

Length	-	800 <u>M</u>

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Total Cost 800x1400 Rs. 1120000.00 Gate 2 Nos. LS Rs 22000.00 Electrical Work (Hi Mass flood Light) 540000.00 Rs. 1682000.00 NBCC Charges 8% 134560.00 Rs. Contingency 3% 50460.00 **Total** Rs. 1867020.00

> Sd/-Project Manager, NBCC at NIT, Kurukshetra

Say Rs. 18.67 Lacs

ROUGH COST ESTIMATE FOR CIVIL WORK OF BOUNDARY WALL AROUND COMMUNITY PARK AT NIT, KURUKSHETRA

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Sr. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Earth work in excavation in foundation trenches etc. in all kind of soil not exceeding 2.0 meters depth i/c dressing of bottom and sides of trenches stacking the excavated soil clear from the edge and subsequent filling around masnary in 15cm layer with compaction i/c disposal of all surplus soil directed within a lead of 30 Mtr.	 	300.00	40.00	12000.00
2	Cement concrete 1:5:10 with stone aggregate 40mm nomina size		75.00	1400.00	105000.00
3	1st class brick work laid in cement mortar 1:6 in foundation & plinth	-	150.00	1700.00	255000.00
4	First class brick work laid in cement sand mortar 1:4 in first storey upto 4 meters above plinth level	t	100.00	1750.00	175000.00
5	12mm thick cement plaster 1:6	Sqm	1000.00	40.00	40000.00
6	Wrought iron & mild stee (using angles, flats, square bars, bars, tees & channels ladders , grills, gratteing frames, window guards, iron doors openable or fixed stairs case or parapet or any othe type of railing, gates & tree guards etc, including cost of screws & welding rods or bolts & nuts complete fixed in position.	e d d d e r e f f	9050.00	35.00	316750.00
7	Applying Priming coats on stee work consisting of genuine reclead mixed with linseed oil and turpentine oil in equaproportions.	d d	550.00	9.00	4950.00
		40			

8	Painting two coats excluding priming coats with ready mixed paint for mettalic surfaces in a shades on new steel or ironwork.	d II	550.00	15.00	8250.00
9	Finishing walls with exterior decorative cement based paint such as snowcem, etc.two coats to give an even shade.	S	552.00	22.00	12144.00
10	Gate	Nos	2.00	LS	40000.00
			NBCC CHARG	ES @ 8%_ TOTAL __	969094.00 77527.00 1046621.00
					Say 10.47 Lacs

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Item No. 2.22 To consider and approve the RCE for Provision of Chain link fencing etc. around tennis court in Sports ground

The sports ground of the Institute is extensively used by the students beyond teaching hours and during holidays. The following small facilities at an estimated cost of Rs. 7.23 lacs need to be provided to the sports ground at the earliest:

1. Chain link fencing around tennis court

Rs. 4.50 lacs

2. C.C. coat in lawn tennis practice area

Rs. 1.44 lacs

3. Barbed wire fencing

Rs. 0.68 lacs

The above estimate has been approved by the Chairman, B&WC of the Institute in anticipation of the approval of the B&WC. For this purpose, a sum of Rs. 7.00 lacs is being released by Govt. of India during the Plan Year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 7.23 lacs

ROUGH COST ESTIMATE FOR LAWN TENNIS HALF WALL COURT AT NIT KKR

1. Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 meters 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 meters.

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16.35 x 18.35 x 0.50=150Cum @ 33.24= 4986.00

2. Providing & Filling Fine Sand under floor including ramming & watering etc

16.35 x 18.35 x 0.10=30Cum @ 200= 6000.00

3. Cement Concrete 1:4:8 with stone aggregate 20 mm nominal size in foundation & plinth

16.35 x 18.35 x 0.10=30 cum @ 1040.18= 31205.40

4. Cement Concrete 1:2:4 with stone aggregate 20 mm nominal size in pavements, roads, taxi-tracks & runways, laid to required slope & camber, including consolidation, finishing & tamping complete.

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16.35 x 18.35 x 0.15=45.37 @ 2000= 90740.00 132931.40 NBCC CHARGES @8% 310631.51 TOTAL 143565.91

Say Rs. 1.44 Lacs

Sd/-Project Manager, NBCC at NIT, Kurukshetra

DETAIL ESTIMATE FOR BARBED WIRE PARALLEL WITH HOCKEY & FOOTBALL GROUND

ESTIMATE FOR ONE SPAN (2.5 M)

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1.	Angle 50 x 50 x 5		
	1.90 Rmt @ 3.75 Kg/Rmt = 7.12Kg /Rmt @ 35/- (I/c Wastage)	=	249.20
	(all this member required drilling of holes & Cuts)		
2.	Carriage of above material L.S.		3.00
3.	Excavation for one nos. holes	=	20.00
4.	C. Concrete (1:2:4) 0.30 x 0.30 $0.60 = 0.054$ @ 2000/-	=	108.00
5.	Barbed wire (6 Nos.)16.00 Rmt = 1.50 Kg @ 42/-	=	63.00
6.	Priming & painting (Steel work)	=	7.00
7.	Labour for erection & Fixing		
	Fitter /Mason 1 Nos @ 120/- 1/6 20.00 2 Beldar 1 Nos @ 80/- 1/6 27.00 47.00	=	47.00 497.20
	Cost Per Rmt <u>497.20</u> 2.5	-	198.88
	Sale Tax @ 4% Total Cost for 302 Rmt @ 206.84 Add for Item no.4,6,7	= = = =	7.96 206.84/Span of 2.5 m 62465.68 380.00 62845.68
	NBCC Charges @ 8% TOTAL	=	Rs. 5027.65 Rs. 67873.33 Say 68000/-

Sd/-Project Manager, NBCC at NIT, Kurukshetra

DETAIL ESTIMATE FOR CHAIN LINK FENCING

ESTIMATE FOR ONE SPAN (2.4 m)

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S No.	. Description							
1.	ISMC 100 x 50) 4.6	5 Rmt	@ 9.20	Kg/Rmt =	42.78	Kg	
2.	MS Angle (40x 40x6)	→ 7.20	o Rmt	@ 3.50.	Kg/Rmt =	25.20	Kg	
<i>3</i> .	M S Flat 20mm x 4mm) 7.20	o Rmt	@ 0.65	Kg/Rmt =	<u>4.68</u> 72.66		,
	(All this members required	d drilli	(I/c V)	6 @ 35/ Vastage toles)			=	2543.10
4.	8mm dia 50mm long nut l		→		s.@ 1.50/eac	h	=	27.00
<i>5</i> .	Clamp (G.I) with nut & 20 100 mm X 75mm	0 x 4 m	m flat →	12 No	s. @ 9/each		=	108.00
5 a	Carriage of above materio	al	\rightarrow	L.S.			=	10.00
5 b	Excavation for one Nos. H	Ioles	\rightarrow				=	20.00
6.	C.Concrete (1:2:4) 0.30 x	0.30 x	0.90 =	0.081	cum @ 2000 _,	/Cum	=	162.00
<i>7</i> ·	60 x 60mm x 10-gauge ch (Width of chain link 1.90n				-		=	1185.60
8.	Priming painting (Steel w	ork)					=	105.00
8 a	Labour for erection & Fixi 2 Fitter /Mason@ 120/da 4 Beldar @ 80/-				240.00 320.00 560.00	5	=	112.00
9.	Ballies for support 4 Nos.	@ 2/-	(Rent j	for two	days)		==	8.00
10.	Scaffolding of Bamboos (1	ented))		L.S.		=	<u>20.00</u> 4300.10
	Cost of per Rmt		<u>4300</u> 2.40		=			1791.71
	Cost per Sqm		1791. 3·75		=			477.79
	Add Tax 4%				=			<u>19.11</u> 496.22

Rough Cost Estimate Chain Link Fencing in Lawn Tennis Ground at NIT, KKR

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S. No.	Description of Item	Unit	Qty	Rate	Amount
1	Providing and fixing Chain link Fencing made out of M.S. channel & M.S. Angle Iron and M.S. Flat Frame and 60 mm x 60 mm x 10 gauge glalvanised. Iron Chain link including Two coats of synthetic enamal paint 1 st Quality over a coat of steel Primer on all mild steel items including cost of excavation, cement concrete 1:2:4, disposal of surplus earth etc including cost of all welding, drilling, nuts and bolts 'U' clamps, etc including scaffolding, supports and all labour etc complete as per sketch attached (Cost include overlapping of Chain link wherever				
2	Providing and fixing Entry Door Double leaf made out of M.S. Angle Iron and M.S. Flat frame and chain link and other same item as above complete as per	Sqm Nos	715 1	506.00 7000.00	361790.00 7000.00
	Add for Extra ISMC & CC Add for dismantling of Existing pipe & cc in Chain link fencing				368790.00 5000.00 10000.00
	Ground & Tree Cutting Add for extra length of chain link fencing				25000.00
	Add NBCC Charges 8%			Sav Rs	408790.00 32703.20 441493.20 4.42 lacs
	7.44 11500 Onargos 070			Say Rs.	4

ROUGH COST ESTIMATE BASED ON MARKET RATE FOR LAWN TENNIS HALF WALL COURT AT NIT KKR

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Sr. No.	Description	Unit	Qty	Rate	Amount
1	Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 meters 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			+ 1.7%	
	a lead of 30 meters.	Cum	150.00	45.00	6750.00
2	Providing & Filling Fine Sand under floor including ramming &				
	watering etc.	Cum	30.00	200.00	6000.00
3	Cement Concrete 1:4:8 with stone aggregate 20 mm nominal size in				
	foundation & plinth	Cum	30.00	1400.00	42000.00
4	Cement Concrete 1:2:4 with stone aggregate 20 mm nominal size in pavments, roads, taxi-tracks & runways, laid to required slope & camber, including consolidation, finishing & tamping complete.		45.37	2000.00	90740.00
	miorning & temping complete.	Oum	10.07		20, (0.00
					145490.00
		NBCC CHA	RGES @	8%	11639.20
	•		I	OTAL	157129.20

ROUGH COST ESTIMATE BARBED WIRE PARALLEL WITH HOCKEY & FOOTBALL GROUND

	Description	Unit	Qty	Rate	Amount
No.					
1	1.2 m high fencing with 1.8 m				
	angle of size 50 x 50 x 5 mm thick				
	placed e very 2.5 m apart				
	embedded in cement concrete				
	1:2:4 Concrete blocks, provided				
	with 4 nos. horizontal lines & 2 nos diagonals of barbed wire 9.38				
	Kg per 100 meter (Min) between				·
	the two angle post fitted & fixed				
	with G I staples, turn buckles etc.			. j.1999r	
	including one coat of primer & two				
	coat of paint on steel work &				
	included the earth work & cement				
	concrete complete & all Labour				
	Charges	Meter	302.00	207.00	62514.00
					62514.00
			NBCC		
			CHARGE		
			S @ 8%_		5001.12
			<u>T</u>	OTAL	67515.12

Summary:

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1. Chain link fencing around tennis co	ourt Rs. 4.42 lacs	
2. C.C. coat in lawn tennis practice are	ea Rs. 1.57 lacs	
3. Barbed wire fencing	Rs. 0.68 lacs	
	Rs. 6.67 lacs	
Misc.	Rs. 0.56 lacs	
т	otal Rs. 7.23 lacs	

Item No. 2.23 To consider and Approve the RCE for the Provision of Green Rooms etc. in the Open Air Theatre

The Open Air Theatre (OAT) in the Institute is extensively used by the students for holding big functions e.g. cultural festivals, music & dramatic events etc. At present, this OAT does not have any basic amenities like green rooms, toilets etc. for girls and boys, thus creating great inconvenience to the students during such activities. It has been a long standing request from the students, especially the girl students to provide green room and toilets to the OAT. It is, therefore, proposed that the above basic amenities be provided to the OAT at an estimated cost of Rs. 5.00 lacs.

The above estimate has been approved by the Chairman, B&WC of the Institute in anticipation of the approval of the B&WC. For this purpose, a sum of Rs. 5.00 lacs is being released by Govt. of India during the Plan Year 2004-2005.

It is, therefore, requested that the BWC may consider and approve the RCE amounting to Rs. 5.00 lacs.

ROUGH COST ESTIMATE OF PROVISION FOR GREEN ROOM IN OPEN AIR THEATRE AT NIT, KURUKSHETRA

AREA - 100 Sqm

Scope: Construction f Green Room

Building Works (RCC framed structure construction)

(Soil Bearing Capacity – 8MT/Sqm)

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Sr. No. 1.	Description Room	Area 100	unit Sqm	Rate 4200	Amount 420000.00
1.	Services Public Health Works			L.S	10000.00
2.	Internal Elect. & Ext.	L.S.	15000.00		
3.	Provision for externa	l sewerage		L.S.	10000.00 455000.00
	NBCC Charges 10%				45500.00 500500.00 Say Rs. 500000.00

Sd/-Project Manager, NBCC

Item No. 2.24 To consider and approve the RCE for Construction of 2Nos. CAD labs. In Mechanical Engineering Department

The Mechanical Engineering department is in the process of establishing 2Nos. CAD labs. under the TEQIP project. The following equipments have been sanctioned by TEQIP, which are being procured soon:

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Lis	t of requirements	(Amount Rs. In lacs)			
S.	Name of Equipment with Brief Specifications	Unit Price	Qty.	Total	
No	<u> </u>		reqd.	Amount	
1.	SOFTWIRE				
	Solid Modeling, Design, Engineering,				
ļ	Manufacturing, analysis Software				
ļ	I-DEAS	1.50	20	30.00	
	Pro-Engineer	Bundled	100	5.00	
	Catia,	1.00	20	20.00	
	Uni-graphics	1.50	20	30.00	
	Drafting & Design Software				
ļ	Auto-desk's Inventor/MDT	0.60	30	18.00	
ļ	Mocro Station V8	Bundled	15	6.50	
	Surface Modeling Software: Image ware Surface	1.50	20	30.00	
ĺ	Three-axis CNC machine Software:				
	Del-con Power Mill+ Power Shape+ Art CAM	1.80	5	9.00	
	DNC link	1.00	1	1.00	
	Analysis Software:				
	Nastran	0.80	5	4.00	
	Ansys	2.50	2	5.00	
	NISA	2.00	2	4.00	
	Hyper-works	2.00	10	20.00	
	LS Dyna	1.50	1	1.50	
		Total		184.00	
	A Cost should include:				
	(i) On-site installation and training.	•			
İ	(ii) Warranty and Free upgrades for minimum				
	period of three years.		l		
i	(iii) Hard Copy manuals.			i	
	B Sostware should be on NT/Windows platform.				
2.	CAD Workstations Compaq/Dell/HP/IBM:	0.70	120	84.00	
	Pentium IV, 3.0 GHz, Intel OEM				
	motherboard,865g chipset, HT Technology with				
	512 KB cache and 800 MHz FSB, Preloaded with		j		
	window2000 Professional along with recovery CD				
	1GB RAM, 80 GB 7200 rpm HDD, CD-RW,64		·		
	MB AGP Card or Integrated Graphics, 10/100/100				
	Gb LAN Card,21" Monitor.	,			
3.	Xeon based Servers: 2.66 GHz Processor Capable	2.00	2	4.00	
	of dual Processing with 512 KB cache memory				
	Intel OEM E 7501 motherboard with 533 MHz				
	FSB 256 MB 266 MHz ECC DDR-RAM, 5 PCI				
	Slots, 2*36 GB SCSI controller Dual at 320 Mbps				
	per channel, DAT drive 12/24 GB, 21" Monitor,				
	F				

		Total		299.20
	one A4 size heavy duty color laser (Duplex) and two 24 pin DMP.			
	peripherals like two scanners, two CD-combo, two A0 Plotter, two heavy duty laser, two color desk jet,			
7.	Networking Equipments and other computer	-	-	10.00
6.	Air-conditioners 2.0 Ton with CVT.	0.35	10	3.50
	up.			
5.	Output 230V± 1%,minimum 1 hour back-up. UPS 750 VA Off-line, Minimum 20 Minutes back-	0.04	5	0.20
	AC, Single-phase input, Single-phase output.			
4.	UPS 20 KVA, online Input 160-260V, 50HZ+ 3%	4.50	3	13.50
	Preloaded with windows 2000 Server with recovery CD anti-virus software.			
	shutdown and wake-up			
	asset tracking and security management, remote			
	automatic fail cover, remote system installation,			
	port, 10/100/1000 Gb network card with teaming			
	integrated on board video memory, 4bays, 2 USB			

To house the above equipments 2 Nos. CAD Labs. are required to be constructed at an estimated cost of Rs. 11.00 lacs. The Chairman, BWC has approved the above estimate in anticipation of approval of BWC, and Govt. of India has sanctioned the above estimated amount during 2004-05.

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It is, therefore, requested that the BWC may consider and approve the RCE amounting to Rs. 11.00 lacs

ROUGH COST ESTIMATE FOR PROVISION FOR CAD CAM LAB (Mechanical LAB)

Scope: AREA - 220 Sqm Construction of CAD CAM Lab

Building Works (RCC framed structure construction) (Soil Bearing Capacity – 8MT/Sqm)

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Sr. No.	Description	Area	Unit	Rate	Amount
1.	Lab	100	Sqm	4200	924000.00
				, 7 4y	
1.	Services Public Health Works	S		L.S	26000.00
2.	Internal Elect. & Ex	Internal Elect. & Ext. Electrical			35000.00
3.	Provision for externa	Provision for external sewerage			20000.00 1005000.00
	NBCC Charges 10%	ò			100500.00
					1105500.00
				Say R	s. 1100000.00

Sd/-Project Manager, NBCC at NIT, Kurukshetra

Item No. 2.25 To consider and approve the RCE for the construction of Administrative Block in lieu of Class rooms.

The National Institute of Technology (formerly known as Regional Engineering College, Kurukshetra) was established around 40 years back. Since the inception, no space was provided for the Administrative Offices. The Academic area earmarked for various departments were temporarily occupied by the administrative sections, thus limiting the academic activities and their growth. Now, with the aging of the Institute, the departments need to grow further and expand their working areas. Thus, it has become imperative to create more class rooms, laboratories etc. within the instructional area of the Institute. It is, therefore, proposed that the instructional area (2500 sqm) occupied by the administration be vacated and a separate administrative block be constructed over a plinth area of 2032 Sqm. at an estimated cost of Rs. 121.80 lacs. In this process, an additional area of 2500 Sqm. (approx) will be available to the teaching departments for setting up laboratories, class rooms etc.

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The above estimate has been approved by the Chairman, B&WC of the Institute in anticipation of the approval of the B&WC.

It is, therefore, requested that the BWC may consider and approve the RCE amounting to Rs. 121.80 lacs

Rough Cost Estimate for Admn. Block in NIT, Kurukshetra

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S. N	Description	Area	Cost/Sqm.	Amount in Rs.
o A	Building Portion(RCC framed structure construction) Soil Bearing capacity 8 MT/sqm. 1. Ground Floor 2. First Floor 3. Mumty	1000 1000 30		
	3. Wanty	2030 Sqm	Rs.3900/ Sqm vide	
	Add for low bearing Capacity 8 MT/sqm instead of 11 MT/sqm. @ 15% vide condition (vii)		item5(a) Rs. 585/sqm. Rs. 4485/sqm	91,04,550/-
В	SERVICES PH Internal services @ 4% of		91,04,550.00	3,64,182.00
	building cost vide item 5(a) Internal Electrical Works @ 8% of Building vide Item 5(a)		91,04,550.00	7,28,264.00
	Provision of Landscaping		L.S.	50,000.00
	External water supply and sewarage (L.S.) & external Electrical vide condition (viii)		L.S.	4,75,000.00
	Road Kerb, Channels vide condition (viii)		L.S.	3,50,000.00
	Condition (vin)		Total: NBCC Charges 10%	110,72,906.00 11,07,209.00 121,79,305.00
			Say Rs.	121.80 Lacs
				Sd/- oject Manager, , Kurukshetra

Item No. 2.26 To consider & approve the RRCE for Constn. of 1 No. Over Head Service Reservoir (OHSR) & a tube well

The Building & Works Committee approved the construction of 1 No. Over Head Service Reservoir (OHSR) along with a tube well in the campus, keeping in view the scarcity of drinking water for the residents. The initial estimated cost was Rs.10.00 lacs for both the works. However, the Government of India released only Rs.5.00 lacs for this purpose at that time. So, the construction could not be taken up. The PWD(PH) was requested to submit a revised Rough cost Estimate for a 130 KLtr capacity OHSR and a tube well of 1 cfs capacity (approx.). The revised estimate as received from PWD(PH) for the construction of 1 No. OHSR and 1 No. tube well were Rs.14.95 lacs and Rs.6.41 lacs respectively. The entire sum of Rs. 21.36 lacs was received by 2000-2001. The work has been completed and it will be taken over soon. The PWD(PH) department has spent an additional amount of Rs. 1.35 lacs for the construction of the tube well, which has been approved by Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee. A sum of Rs. 1.35 lacs is being released by Govt. of India during the Plan year 2004-2005 to clear the liabilities of PWD (PH).

The Building & Works committee may approve the above estimate of Rs. 1.35 lacs for the above work.

Item No. 2.27 To consider & approve Rough Cost Estimate for Provision of Snowcem in Institution Buildings

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The Instructional Building etc. were constructed around about 40 years back and no surface treatment including snowcem was provided since then. The external surfaces of these buildings have been getting worn out due to absence any such treatment and they became very shabby. In the meantime, the NBA (National Accreditation Bureau) team paid visit to the Institute in the 4th week of February, 2004. It was than felt that the external surfaces of the Instructional Buildings should be treated with snowcem so that the structures get strengthened with added asthetics. The work was got done by NBCC against an estimated cost of Rs. 4.432 lacs out of the *College Development Funds*, which was approved by the Chairman BWC in anticipation of the approval of the B&WC. However, during the course of work the scope was extended for Jubilee Hall, Sports Complex & Reflection Tanks. Hence, the cost increased to Rs. 5,73,620/-.

The Building & Works committee may consider & approve the final estimated cost of Rs. 5,73,620/- out of College Development Funds.

NATIONAL BUILDING CONSTRUCTION CORPORATION LTD. (A GOVT. OF INDIA ENTERPRISES)

REVISED ESTIMATE

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SR. NO. DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1/8.32 a) Scraping of Colour Wash White Wash	& Sqm	24961.12	1.50	37441.68
2/16.61 Finishing walls with extendecorative cement base paints such as snowce	sed em,		11 y 199 9	
etc.two coats to give an even shade. 3/15.61 Repair in RCC chajja / Cempointing 1:3 deep variety	Sqm ent	24961.12	19.00	474261.28
brick and tile work.	Sqm	750.00_	25.90	19425.00
				531127.96
		NBCC CHARGES 8%		42490.24
		<u></u>	OTAL	573618.20

Say Rs. 5,73,620/-

Sd/-Project Manager, NBCC at NIT, Kurukshetra

Item No. 2.28 To approve Rough Cost Estimate for Provision of False Ceiling & Carpeting in Library-cum-Conference Hall of Civil Engg. Deptt.

In Civil Engg. Deptt., False Ceiling & carpeting were proposed to be provided in the Library-cum-Concernence Hall at an estimated cost of Rs 0.54 lacs. The estimate was approved by Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee and the work was proposed got done by NBCC out of *College Development Funds*.

The Building & Works Committee may consider & approve the above estimate.

Item No. 2.29 To consider & approve the RCE for Provision of False Ceiling Carpeting & Aluminium Glazing in Computer Lab. of Civil Engg. Deptt.

In Civil Engg. Deptt., False Ceiling, carpeting & Aluminium Glazing was proposed to be provided in Computer Lab of the Deptt. at an estimated cost of Rs 1.16 lacs. The estimate was approved by Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee and the work was proposed to be got done by NBCC out of College Development Funds.

The Building & Works Committee may consider & approve the above estimate.

Item No. 2.30 To consider & approve the RCE for Construction of two Nos. Security Posts & 6 Nos. Moveable Speed Breaking System

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In the Institute, there had been no security post and Traffic Control System at the entrance. Consequently, the outsiders had free entry to the Institute risking the security of the or residents. Hence, it was decided to construct 2 Nos. security posts at the entrances of the Institute and to provide 6 Nos. moveable speed breaking systems made of steel at an estimated cost of Rs. 2.34 lacs. The work was proposed to be executed by NBCC out of *College Development Funds*, which was approved by Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee. However, the cost of construction increased to 2.66 lacs due to slight change in scope of work.

The Building & Works Committee may consider & approve the above estimate of Rs. 2.66 lacs as stated above.

Item No. 2.31 To consider & Approve the RCE for Aluminium Doors, Glazing in cup-boards & Blinds etc. in VISI Lab. In EC & CE Deptt.

In Electronics & Communication Engg. Deptt some spl. work pertaining to removal of old PVC tiles and fixation of new Glaze tiles was doneat an estimated cost of Rs. 1,24,562/-by NBCC, which was approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee. The expenditure was incurred out of Equipments grants (replacement/removal of obsolete equipments in Workshop/EC & CE Deptt.)

The Building & Works Committee may consider & approve the above estimate.

Item No. 2.32 To consider & approve the RCE for Provision of False Ceiling & Carpeting in Conference Hall of Mech. Engg. Deptt.

In Mech. Engg. Deptt., False Ceiling, & carpcting were proposed to be provided in Conference Hall of the Deptt. at an estimated cost of Rs. 93,150/-. The estimate was approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee and the work was proposed to be executed by NBCC out of College Development Funds.

The Building & Works Committee may consider & approve the above estimate.

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Item No. 2.33 To consider and approve the RRCE of Renovation /Special repairs of <u>lawns</u>

The lawns around the Instructional Building and the Colony ground need complete renovation by way of digging, turfing, providing MS grills, benches etc. For this purpose a sum of Rs.5.00 lacs was approved by Building & Works Committee vide item No.19.18, and the entire amount was released by 2003-2004 by Government of India. However, for the maintenance of greenery in the vast open area an additional sum of Rs. 11.86 is required. This provision has been approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee

It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 16.86 lacs.

Item No. 2.34 To consider and approve the RRCE for Special Repair of Hostels Instructional Buildings & Residences

The age-old 5 Nos boys hostels in the Institute require special repair in terms of replacement of doors, windows, wire gauge shutters, wooden chhowkats, shelves, plastering on the walls etc. Similarly, some of the residences in the campus are more than 35 years old requiring urgent attention in terms of replacement of wooden fixtures (i.e. doors, windows, Chhowkats etc.), plastering of walls etc. To initiate this urgent task, a sum of Rs. 15.00 lacs (Rs.10.00 lacs for hostels and Rs.5.00 lacs for residences) was approved by the Building & Works Committee vide item No.19.19. An amount of Rs. 10.00 lacs was released by the Government of India, MHRD during the financial year 2000-2001 and Rs.5.00 lacs during 2002-03. Keeping in view the volume and extent of work, the estimate was further revised to Rs. 30.00 lacs by BWC vide item No. 1.10. The entire amount was released by 2003-2004. However, the deteriorating condition of these age old structures require constant attention, thus requiring an additional sum of Rs. 36.76 lacs which was approved by the Chairman, Building & Works Committee in anticipation of approval of Building & Works Committee.

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It is, therefore, requested that the BWC may consider and approve the RRCE amounting to Rs. 66.76 lacs for the above work.

Item No. 2.35 To consider & approve the Rough Cost Estimate for renovation of Lecture Theatre, Laboratories etc.

The Instructional Buildings consisting of Lecture Theatres, Tutorial Rooms, Laboratories etc. was constructed about 40 years back. The condition of Lecture Theatres, Conference Halls, Laboratories are in very bad shape due to wear & tear. It is, therefore, proposed that some of the old Lecture theatres, conference Halls, Laboratories be renovated to make them functional. The estimated cost for this work as submitted by NBCC Ltd. is Rs. 40.15 lacs. The Govt. of India has sanctioned a sum of Rs. 40.00 lacs under TEQIP scheme for the above purpose.

The Building & Works Committee may consider and approve the above estimate for Rs. 40.15 lacs.

ROUGH COST ESTIMATE FRAMED BY DY. PROJECT MANAGER NBCC LTD, NIT WORKS KURUKSHETRA FOR RENOVATION OF 10 NOS. LECTURE THEATRE HALL.

Rs.

2.65 Lakhs

1. One Lecture Hall

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Electric	Electrical Work		1.00 Lakhs
		Rs.	3.65 Lakhs
For 10 Nos. Lecture Hall	=	10 x	3.65 Lakhs
	=	Rs.	36.50 Lakhs
NBCC Charges 10%	′ =	Rs.	3.65 Lakhs
		Rs.	40.15 Lakhs

Civil Work

Item No. 2.36 To consider & Approve the Rough Cost Estimate for the replacement of Water Supply & Public Disposal Pumps Distribution Network.

The Water Supply/Disposal Pumps and distribution network of National Institute of Technology, Kurukshetra was installed about 40 years back. Over the years, the entire system has outlived its life resulting into frequent break downs. It is, therefore, proposed that most of the old pumps & distribution network be replaced with new ones. The estimated cost for this work as submitted by NBCC Ltd. is Rs. 30.25 lacs. The Govt. of India has sanctioned a sum of Rs. 30.00 lacs under TEQIP scheme for the above purpose.

The Building & Works Committee Consider and approve, the above estimate for Rs. 30.25 lacs.

ROUGH COST ESTIMATE FRAMED BY DY. PROJECT MANAGER NBCC LTD, NIT WORKS KURUKSHETRA FOR WATER SUPPLY & DISPOSAL PUMP & DISTRIBUTION NETWORK

Sr. No.	Description	Cost
1.	Pump 25 HP - 1 NO 20 HP - 1 NO 15 HP - 1 NO	Rs. 00.80 Lakhs Rs. 00.80 Lakhs Rs. 00.50 Lakhs
2.	Auto Control System	Rs. 04.60 Lakhs
3.	New Bore Well	Rs. 04.00 Lakhs
4.	Generator 63 KVA	Rs. 03.50 Lakhs
5. 6.	P & L L A Pipe P & L GI Pipe NBCC Charges @ 10%	Rs. 08.30 Lakhs Rs. 05.00 Lakhs Rs. 27.50 Lakhs Rs. 2.75 Lakhs Rs. 30.25 Lakhs

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Item No. 2.37 To consider & Approve the Rough Cost Estimate Renovation of Electrical Fittings in W/Shop etc.

The Workshop of National Institute of Technology, Kurukshetra was constructed about 40 years back. The condition of Electrical Wiring & appliances in the Workshop are in a very bad shape resulting into frequent electrical break downs. Consequently, the teaching work has been suffering badly. It is, therefore, proposed that all the old wiring, appliance etc. be replaced with new ones. The estimated cost for this work as submitted by NBCC Ltd. is Rs. 20.03 1 lacs. The Govt. of India has sanctioned a sum of Rs. 20.00 lacs under TEQIP scheme for the above purpose.

 $\label{eq:consider} The \ Building \ \& \ Works \ Committee \ Consider \ and \ approve \ the \ above \ estimate \ for \ Rs. \ 20.03 \ lacs.$

ROUGH COST ESTIMATE FOR ELECTRICAL WIRING IN WORKSHOP AT NIT, KKR.

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S. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY		CP AS ON JULY'03	Rate	Amount
1	31.4	Wiring in 1.5 Sqmm PVC insulated FRLS copper conductor cable with 1 no 1.0 sqmm copper insulated earth wire in 1.6mm thick ms conduit pipe including switch, wall socket, hylamp sheet, junction box, MS box etc & other consumable material as required complete.	r d s g o c c					
	<i>(1)</i>	Fan Point						
		Long Point	Nos	130.00	179.00	120%	393.80	51194.00
	(II)	Light Point	Nos					
		Medium Point	Nos	25.00	106.00	120%	233.20	5830.00
		Long Point	Nos	175.00	147.00	120%	323.40	56595.00
	(VII)	3 Pin 5 amp plug poin including earthing the 3rd pir etc.						
		Medium Point	Nos	20.00	120.00	120%	264.00	5280.00
		Long Point	Nos	50.00	162.00	120%	356.40	17820.00
	(VIII)	3 Pin 15 amp plug poin including earthling the 3rd pin etc.						
		Medium Point	Nos	30.00	135.00	120%	297.00	8910.00
		Long Point	Nos	50.00	180.00	120%	396.00	19800.00

2	(D)	Sheet Steel enclosure					
	HSR 31.12	Supply & erection of shee steel enclosures distribution boards suitable for MCBs etc. on wall/existing board pedestal with rag bolts including bonding to earth:	1 S /				
		8 way SPN	Nos	40.00 293.00	80%	527.40	21096.00
		8 way TPN	Nos	25.00 924.00		1663.20	41580.00
3	(K) HSR 31.15	Distribution board with plug & socket Supply & erection of sheet steel enclosures 2 pole/3pole with earth plug & socket suitable for incorporating single pole tripple pole MCB on wall/or existing pedestal complete with necessary connection etc.	t 22	. ,#vy			
	(ii)	SPN enclosure for Single	•				
		pole MCB 20 Amp	each	50.00 293.00	50%	439.50	21975.00
	(iv)	TPN enclosure for Tripple Pole MCB 30 Amp	each	25.00 737.00	50%	1105.50	27637.50
4	(L)	Miniature Circuit Breaker &		20,00 , 0, .00	30,0		m. 007.100
	HSR 31.17 (a)	Isolator Supply & erection of miniature circuit breaker/isolator 240/415 V in the existing distribution board including making necessary connection:- Miniature Circuit Breaker of 9 K A breaking capacity	t 1				
	(ii)	6 amp to 32 amp (Both)	Nos	620.00 197.00	30%	256.10	158782.00
	(ii)	63 amp single pole with neutral		40.00.040.00	200/	240.00	40400.00
	(iii)	40 amp to 60 amp TPN	Nos Nos	40.00 240.00 25.00 499.00	30% 30%	312.00 648.70	12480.00 16217.50
5	31.21 xv	Supply & erection of pipe for wiring purpose including bends inspection boxes etc where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm		20.00 499.00	3070	040.70	70217.30
		thickness on surfaces.	Rmt	50.00 14.90	80%	26.82	1341.00

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	xvi	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness on surfaces.		100.00	18.40	80%	33.12	3312.00
	xvii	Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thickness on surfaces.		25.00	23.20	80%	41.76	1044.00
	xviii	Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thickness on surfaces.		10.00	33.10	80%	59.58	595.80
	XXX	Supply & erection of PVC pipe of 6 kg pressure, laid 1 meter below ground level complete, including digging refilling of the trench with jointing etc.	! ! !					
	(b)	PVC pipe 80 mm dia	Rmt	15.00	42.00	80%	75.60	1134.00
	(c)	PVC pipe 65 mm dia	Rmt	25.00	31.00	80%	55.80	1395.00
6	31.35 xii	Dismantling old wiring points (not recessed) including necessary repaire to wall etc.	1					
	а	Light, fan or call bell point	No	350.00	2.80	80%	5.04	1764.00
	b	Wall socket point	No	100.00	1.60	80%	2.88	288.00
7	31.12 a	Main Switch						
	χv	Supply & erection of metal clad switches/B.D.B.S with rag bolts on wall or on existing angle iron board/pedestal including bonding to earth and necessary connections:-63 Amp TPN (Cropton, GEC,				·		
	and.	Standard)	Nos		521.00	80%	937.80	5626.80
	xvi	100 Amp TPN (-do-)	Nos	2.00 8	858.00	80%	1544.40	3088.80
8	31.22 (I)	Earthing with G I earth pipe 4.5 m long & 40 mm dia with masonry enclosures on the top etc. as required		6 00 °	378.00	80%	680.40	4082.40
	(ii)	Extra for using salt and charcoal/ coke for pipe earth electrode as required	1		125.00	80%	225.00	1350.00

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	xii	Pdg. And laying earth connections from earth electrode with 4.00 mm dia G I wire in 15 mm dia G I pipe from earth electrode as required) !	25.00	24.50	80%	44.10	1102.50
9	NS	Supply & erection of PVC unsheathed multishaded copper conductor cable single core 1100 volts grade in pipe of suitable size excluding cost & erection of pipe:-	! } }		. gry			
	(I)	Size 1.50Sqmm (1/1.40mm)	Meter	1000.00			8.00	8000.00
	(II)	Size 2.50Sqmm (1/1.80 mm)	Meter	800.00			15.00	12000.00
	(III)	Size 4 Sqmm (1/2.24mm)	Meter	6000.00			25.00	150000.00
	(IV)	Size 6 sqmm (1/2.80mm)	Meter	2500.00			30.00	75000.00
	(V)	Size 10 Sqmm(1/3.50mm)	Meter	1500.00			51.00	76500.00
10	NS	Supply & erection of Steen Shuttered 1.6 mm (16 gauge sheet) in the existing wall shutter make out 1.6 Sqmm thick with openable 8 lockable arrangement. S/E Adoter box made out of	S S Sqmt	25.00			1500.00	37500.00
		1.6mm (16 yauge M S Sheet for loose wire box of suitable size as site request	t	60.00			500.00	30000.00
12	NS	Providing & fixing Angle Iron frame of suitable size of installation of main switch and MCB DB as required	f	100.00			35.00	3500.00
13	NS	S/E fitting Box type Tube fitting Philips make	-					
	(I)	TMC 55/136	Nos	50.00			720.00	36000.00
	(II)	TMC 55/236	Nos	100.00			1200.00	120000.00
	(III)	KKU 22/236	Nos	50.00			1550.00	77500.00
14	NS	Providing & fixing of 32 Amp SPN metal clad socket outle in sheet steel enclosure having with 1 no. 32 Amp SPN MCB and 1 no. 32 Amp metal clad socket complete with connection etc.	t 9 0	40.00			1100.00	44000.00
		with connection etc.	1403	70.00			, , , , , , ,	7,000,00

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15 NS Supply & fixing of Bajaj make (Comfort model) ceiling fan with suitable size G /I down rod complete

(I) 1400 mm16 NS Civil Work (Flooring etc.)

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Nos 200.00

1400.00 **280000.00**

LS <u>380000.00</u>

1821321.30

NBCC CHARGES @ 10% 182132.13

TOTAL 2003453.43

Say Rs. 20.03 Lacs

Item No. 2.38 To consider & Approve the Rough Cost Estimate for Repair/modification of Instructional Building.

The Instructional Building of National Institute of Technology, Kurukshetra was constructed about 40 years back. The condition of Electrical Wiring & appliances in the Class rooms, Laboratories, Offices etc. have become very old leading to frequent electrical break downs. Consequently, the teaching work has been suffering badly. It is, therefore, proposed that all the old wiring, appliance etc. be replaced with new ones. The estimated cost for this work as submitted by NBCC Ltd. is Rs. 15.38 lacs. The Govt. of India has sanctioned a sum of Rs. 15.00 lacs under TEQIP scheme for the above purpose.

The Building & Works Committee Consider and approve the above estimate for Rs. 15.38 lacs.

ROUGH COST ESTIMATE FOR INSTRUCTIONAL BUILDING REPAIR & MODIFICATION AT NIT KKR

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Sr. No.	HSR Item No.	Description	Unit	~.,		ON IULY'0	Rate	Amount
1	31.4	Wiring in 1.5 Sqmm PV insulated FRLS coppe conductor cable with no. 1.0 sqmm coppe insulated earth wire insulated	er 1 er in iit h, et et tc					
	<i>(1)</i>	Fan Point						
	(a)	Short Point	Point	25.00	99.00	120%	217.80	5445.00
	(b)	Medium Point	Point	78.00	136.00	120%	299.20	23337.60
	(c)	Long Point	Point	78.00	179.00	120%	393.80	30716.40
	(ii)	Light Point						
	(a)	Short Point	Point	25.00	69.00	120%	151.80	3795.00
	(b)	Medium Point	Point	260.00	106.00	120%	233.20	60632.00
	(c)	Long Point	Point	218.00	147.00	120%	323.40	70501.20
	(iii)	Twin Control Light Point						
	(a)	Short Point	Point	4.00	71.00	120%	156.20	624.80
	(b)	Medium Point	Point	10.00	110.00	120%	242.00	2420.00
	(c)	Long Point	Point	10.00	153.00	120%	336.60	3366.00
	(iv)	Light Point withou	ut					

	(a)	Short Point	Point	5.00	38.00	120%	83.60	418.00	
	(b)	Medium Point	Point	45.00	69.00	120%	151.80	6831.00	
	(c)	Long Point	Point	15.00	108.00	120%	237.60	3564.00	
	(vi)	Call bell Point including							
		cost of M.S. Box 180 mm							
		x 100 mm x 60mm dee for call bell.	p						
	(a)	Short Point	Point	2.00	87.00	120%	191.40	382.80	
	(b)	Medium Point	Point	5.00	124.00	120%	272.80	1364.00	
	(c)	Long Point	Point	60.00	166.00	120%	365.20	21912.00	
	. ,	· ·	, опи	00.00	700.00	12070	000.20	21012.00	
	(vii)	3 pin 5 Amp. Plug Point							
	(a)	Short Point	Point	10.00	80.00	120%	176.00	1760.00	
	(b)	Medium Point	Point	150.00	120.00	"120%	264.00	39600.00	
	(c)	Long Point	Point	70.00	162.00	120%	356.40	24948.00	
	(viii)	3 pin 15 Amp. Plug Poin							
		including wiring with 2 No							
		2.5 Sqmm Copper and 1. Sqmm earth wire and 1.							
		Amp switch & socke							
		outlet etc. complete.	-						
	(a)	Short Point	Point	5.00	93.00	120%	204.60	1023.00	
	(b)	Medium Point	Point	55.00	135.00	120%	297.00	16335.00	
	(c)	Long Point	Point	250.00	180.00	120%	396.00	99000.00	
•	24.2	Committee of the							
2	31.2	Supply & erection of pipe for wiring purpose							
		including bendinspection boxes etc	s						
		including bender inspection boxes etc where necessary and	s C						
	VIZ	including bender inspection boxes etc. where necessary and painting as required:-	s C d						
	χv	including bender inspection boxes etc. where necessary and painting as required:- Heavy gauge welded	s c d						
	χv	including bender inspection boxes etc. where necessary and painting as required:-	s c d	350.00	14.90	80%	26.82	9387.00	
	χv	including bends inspection boxes etc where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60	s c d	350.00	14.90	80%	26.82	9387.00	
	xv xvi	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60mm thicness on surfaces. Heavy gauge welded	s c d d O Rmt	350.00	14.90	80%	26.82	9387.00	
		including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia	s d d O Rmt	350.00	14.90	80%	26.82	9387.00	
		including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60mm thicness on thicness on thicness on thicness on the thicness on the thicness of the thicken the	s d d O Rmt						
		including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia	s d d O Rmt	350.00 150.00	14.90 18.40	80%	26.82 33.12	9387.00 4968.00	
	xvi xvll	including bendarinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded the surfaces.	s c c c c c c c c c c c c c c c c c c c						
	xvi xvll	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 conduit pipe 32	s c c c c c c c c c c c c c c c c c c c						
	xvi xvll	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00	18.40	80%	33.12	4968.00	
	xvi xvll	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 conduit pipe 32	s c c c c c c c c c c c c c c c c c c c						
	xvi xvll	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00	18.40	80%	33.12	4968.00	
	xvi xvII	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00	18.40	80%	33.12	4968.00	
	xvi xvII	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 40 mm dia	s c c c c c c c c c c c c c c c c c c c	150.00	18.40	80%	33.12	4968.00	
	xvi xvli	including bendinspection boxes etc where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII xviii	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thicness on surfaces. Supply & erection of PVC	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII xviii	including bendinspection boxes etc where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces.	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII xviii	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thicness on surfaces. Supply & erection of PVC pipe of 6 kg presure, laid in meter below groubd leve complete, including digging	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII xviii	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thicness on surfaces. Supply & erection of PVC pipe of 6 kg presure, laid in meter below groubd lever complete, including digging refilling of the trench with	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	
	xvi xvII xviii	including bendinspection boxes etc. where necessary and painting as required:- Heavy gauge welded conduit pipe 20mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thicness on surfaces. Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thicness on surfaces. Supply & erection of PVC pipe of 6 kg presure, laid in meter below groubd leve complete, including digging	s c c c c c c c c c c c c c c c c c c c	150.00 50.00	18.40 23.20	80%	33.12 41.76	4968.00 2088.00	

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	(a) (b)	PVC pipe 120mm dia PVC pipe 80 mm dia	Rmt Rmt	25.00 25.00	59.00 42.00	80%	106.20 75.60	2655.00
	(c)	PVC pipe 65 mm dia	Rmt	25.00 25.00	42.00 31.00	80% 80%	75.80 55.80	1890.00 1395.00
3		Earthing with G I earth pipe 4.5 m long & 40 mm dia with masonary enclosures on the top etc. as required) 5	12.00	378.00	80%	680.40	8164.80
	(ii)	Extra for using salt and charcoal/ coke for pipe earth electrode as required	;	12.00	125.00	80%	225.00	. 2700.00
	xii	Pdg. And laying earth connections from earth electrode with 4.00 mm dia G I wire in 15 mm dia G I pipe from earth electrode as required) ! !	150.00	24.50	· 80%	44.10	6615.00
4	31.2 0 (I)	Erection of ceiling fan complete with necessary earthing of fan & regulator including carriage from local railway station/Goods transport / PWD store to the site of work.	1 7	200.00	13.00	80%	23.40	4680.00
	(iii)	Erection of exhaust fan complete with necessary earthing of fan & regulator including carriage from local railway station/Goods transport / PWD store to the site of work.	•	10.00	25.00	80%	45.00	45 0.00
	(v)	Making suitable hole in the wall upto 450mm sweep exhaust fan including finishing the same & fixing of wire mesh duly fixed with Deoder wood frame of section 40 mm x 25 mm thick		10.00	53.00	80%	95.40	954.00
5	8	Erection only of 1 x 40 watts or 2 x 40 watts 1220 mm long/ 1 x 20 watts or 2 x 20 watts 610 mm long flourecent tube with fittings by means of 2 Nos. 20 mm dia meter 1.60 mm thickness conduit pipe with spring loaded brass flanges at both ends including 0.75 sqmm (24/0.20 mm) PVC copper flexible cable for connecting the tube to the						
		connecting the tube to the adjacent light noint	Each	208.00 69	28.50	80%	51.30	10670.40

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adjacent light point including cost of conduit pipe flanges. PVC flexible cable & petty material required for the same (Upto 1/2 metr length of pipe)

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	xiii	Extra for additional lengt of 20 mm dia conduit pip for hanging of fitting (fo	e		·7	***		
		item no. xxi, xxii)	Rmt	110.00	11.30	80%	20.34	2237.40
6	31.1 2 D	Sheet Steel Enclosure						
		Supply & erection of sheet steel enclosure distribution boards suitable for MCE etc on wall/ existing board/pedstal with rag bold including bonding to earth:	n Bs g ts					
iv	а	4 Way SPN	Nos	14.00	263.00	80%	473.40	6627.60
	b	4 Way TPN	Nos	6.00	692.00	80%	1245.60	7473.60
v	a	6 Way SPN	Nos	20.00	279.00	80%	502.20	10044.00
	b	6 Way TPN	Nos	3.00	831.00	80%	1495.80	4487.40
vi	а	8 Way SPN	Nos	20.00	293.00	80%	527.40	10548.00
	b	8 Way TPN	Nos	6.00	924.00	80%	1663.20	9979.20
7	31.1 7 (a)	Supply & erection of miniature circuloreaker/Isolator 240/415 in the existing distribution board including making necessary connections:- Miniature Circuit	V n g					
	1-7	Breakers of 9 K.A breaking capacity	-					
	(ii)	6 to 32 Amp SP MCB	Nos	600.00	197.00	30%	256.10	153660.00
	(iii)	40 to 63 Amp SPN MCB	Nos	35.00	240.00	30%	312.00	10920.00
	(b)	M C B (FOR INCOMER)						
	(ii)	63 Amp SPN MCB	Nos	4.00	240.00	30%	312.00	1248.00
	(iii)	63 Amp TPN MCB	Nos	2.00	499.00	30%	648.70	1297.40
8	31.12	Main Switch						

		Supply & erection of met clad switches/B.D.B.S with rag bolts on wall or continuous existing angle including bonding to earth and necessary connections:-	th on on og					
	χv	63 Amp TPN (Croptor	n.					
		GEC, Standard)	., Nos	9.00	521.00	80%	937.80	8440.20
	xvi	100 Amp TPN (-do-)	Nos	11.00	858.00	80%	1544.40	16988.40
	xvii	200 Amp TPN (Catagary	-					
		<i>A</i>)	Nos	3.00	2646.00	80%	4762.80	14288.40
9		Dismantilling old wirin points (not recessed including necessary repair to wall etc.	Ĭ)		· .?	Á		
	а	Light, fan or call bell point	No	300.00	2.80	80%	5.04	1512.00
	b	Wall socket point	No	150.00	1.60	80%	2.88	432.00
		·		700.00	7.00	00/0	2.00	702.00
<u>NOI</u>	N-SC	<u>HEDULE</u>						
1		Supply of following types flourcent tube light fixture complete with tube rod, chocks, condensor etc. Complete of (Phillips make)						
	1	TMC - 55/136 HPF	Nos	150.00			550.00	82500.00
	ii	TMC - 55/236 HPF	Nos	1.00			850.00	850.00
	iii	TBS 50/236 HPF	Nos	1.00			2300.00	2300.00
	iv	SRP 202/250 with 250 V	V					
		HPSV lamp	Nos	10.00			4500.00	45000.00
2		Supply of following size ceiling fan of Bajaj make (Comfort Model)						
	<i>I</i>	1200 mm sweep	Nos	1.00			900.00	900.00
	ii	1400 mm sweep	Nos	100.00			1200.00	120000.00
3		Supply & erection of PVC unsheathed FRLS coppe conductor cable single cord 1100 volts grade in pipe of suitable size excluding cost & erection of pipe;	r e f					
	1	1.00 Sqmm	Rmt	250.00			6.00	1500.00
	ii	1.50 Sqmm	Rmt	550.00			8.00	4400.00
	iii	2.50 Sqmm	Rmt	125.00			11.00	1375.00
	iv	4.00 Sqmm	Rmt	240.00			16.00	3840.00
	V	6.00 Sqmm	Rmt	1000.00			25.00	25000.00
	vi	10 Sqmm	Rmt	50.00			44.70	2235.00

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4	Providing & fixing computer point with 2 No. 2.5 Sqmm copper FRLS wire with 1.5 Sqmm copper earth wire including providing & fixing of 1No, 5 Amp switch with 3 Nos 5 Amp socket outlet in suitable size M S box hylamp sheet etc complete			
	with all respect No	os 155.00	950.00	147250.00
5	Providing & laying of telephone wiring with 2 pair telephone wire from telephone box to telephone point complete with telephone socket outlet, MS Box, hylamp sheet etc.	os 150.00	800.00	120000.00
6	Providing & fixing of following size exhaust fan of Crompton greaues make of 2880 rpm heavy duty complete with all accessories.	5.00	2000.00	45000.00
l ii	380 mm sweep No		3000.00 4000.00	15000.00 20000.00
"	450 mm sweep No	os 5.00	7000.00	20000.00
7	Providing & fixing Angle Iron frame of suitable size of installation of main switch and MCB DB as required	g 150.00	25.00	3750.00
8	Dismantilling of DB & Main DB No	os 15.00	15.00	225.00
9 a	Providing & fixing of 20 pair tag block in sheet steel enclouser including mending good the damages No	o. 10.00	600.00	6000.00
b	Providing & fixing of 50 pair tag block in sheet steel enclouser including mending good the damages No	o. 5. <i>00</i>	1500.00	7500.00
С	Providing & fixing of 100 pair tag block in sheet steel enclouser including mending good the damages No	o. 2.00	. 2000.00	4000.00
10	Providing & fixing of 32 Amp SPN metal clad socket outlet in sheet steel enclouser having with 1 no. 32 Amp SPN MCB and 1 no. 32 Amp metal clad			
	socket complete with So	et 40.00	1100.00	44000.00

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11 providing & fixing with MS clamp on parapet of 1.5 meter long 40 mm dia GI pipe security light bracket having suitable bend & fixed in inside suitable G I pipe upto 40 cm from bottom having with manual locking arrangement and moving arrangment at any angle as approved by E I C. Set

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12.00

350.00

4200.00

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139809.11 **NBCC CHARGES @ 10%** TOTAL

Say Rs. 15.38 Lacs

Item no. 2.39 To consider and approve the RCE for roviding wiring for Acs & Computers etc. in Computer Lab. of CE Deptt.

In Civil Engg. Deptt., wiring for ACs & Computer were proposed to be provided in Computer Lab of the Deptt. at an estimated cost of Rs 1.23 lacs. The expenditure is proposed to be incurred out of Equipment grant of Civil Engg. Deptt. and the work would be executed by NBCC.

The Building & Works Committee may consider & approve the above estimate.

Item No. 2.40 To consider and approve the RCE for the provision of Geysers and **Exhaust Fans in Hostel Toilets**

All the washrooms (Bathrooms, toilets etc.) of the Boys Hostels are being renovated with glazed tiles & modern fittings (Item No. 2.15). However, the provision of Exhaust Fans & Geysers were not made in the original estimate. It is now proposed that the above amenities be provided in the Hostels at an estimated cost of Rs. 8.00 lacs. The work is being carried out by NBCC.

The Building & Works Committee may consider & approve the above estimate.

ROUGH COST ESTIMATE FOR RENOVATION OF HOSTEL TOILET 1 TO 5.

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Sr. No.	Description	Unit	t Qty		Rate	Amount
1	Providing & fixing in position Usha, Bajaj, Recold make (To the approval of the Engineer in Charge) 50 ltrs. capacity storage type automatic electric water heater, pressure/Non-Pressure type the rmostatically controlled, suitable for operation on 230 Volts, 50 cycles single phase vertical wall mounting fitted with withdrawable and adjustable type AC thermostat, thermostat knob to be readily. Accessable through the opening of suitable cover for adjustment of temprature in the installed postion of heater and the thermostat should be withdrawn without having to drain thewater, electric heating element made out of copper tube (Heating element should be easily removed and replaced in the installed position of heater) A neon indicator 1 Amp. Innecontainer made out of coppertined both from inside and outside outer container made out of mild steel sheet finished in gleaming white stove enamel paint insulated between the inner and outer with fibre glass wool with 1 meter length of suitable capacity 3 core flexible cord with plug and non return valve plastic/lead connections or pressure release valve (Where required) Complete including fixing & testing for a week(as required by the Engineer - incharge)			54	8650.00	467100.00
	2 Providing & fixing of 380mm sweep 950 RPM heavy duty crompton greaves make exhaust fan on suitable size wooden from including connection etc. complete as required and fixing of louver Shutter on wall, mending good the damages including providing of small material required to complete the work.	t I I F		54	4800.00	25 <u>9</u> 200.00
						726300.00
			NRCC (ges 10%	72630.00
				,-	TOTAL	798930.00
						Say Rs. 8.00 lacs

Item No. 2.41 To consider and approve the Rough Cost Estimate for the Installation of HT/LT Sub-Station

In the Institute the electricity supply is made directly by the State Electricity Board (UHBVN) through LT connections. The system worked satisfactorily when the Institute did not grow fully it had low electricity demand. With the increase in laboratories & buildings, the electric load of the Institute has increased manifold, thus requiring augmentation of load for the installed energy meters. With the present rules of UHBVN, any connection with more than 70 KW load requires HT connection resulting into installation of new transformer for the connection, the cost for which is to be borne by the Institute. Thus, the individual HT connections, several in numbers will require huge investment by the Institute. To get rid of this problem, it is proposed that bulk electricity supply be taken from UHBVN & distribution be made at Institution level. This will save paying rent for the individual energy meters and augmenting the load of the energy meters installed at various meters at the Institute level. Further, the present overhead distribution system will be changed by underground distribution system, thus adding aesthetics to the campus. The estimated cost for the entire work as detailed in the enclosed estimate is Rs. 302.00 lacs.

The Building & Works Committee may consider & approve the above estimate.

ROUGH COST ESTIMATE FOR THE INSTALLTION OF HT/LT SUB STATION

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Sr. No.	Description	Unit	Qty F	Rate	Amount
1	GO Switch complete with all				
_	accessories and 2 Nos RCC				
	Poles	Set	1.00	45000.00	45000.00
2 a	SITC of HT cable size 3 core				
	240 Sqmm XLPE from GO				
	switch to CT/PT Unit	Rm	200.00	1450.00	290000.00
2 b	SITC of HT cable size 3 core				•
	240 Sqmm XLPE from service station to GO Switch		1500.00	1450.00	2175000.00
3		Rm	1500.00	.,,,1450.00	21/5000.00
3	SITC of jointing kits for 3 core 240 sqmm XLPE HT cable				
а	Outdoor Type	Nos	1.00	11000.00	11000.00
b	Indoor Type	Nos	1.00	1000.00	30000.00
4			3.00	10000.00	30000.00
4	SITC of CT/PT Unit with 1 No. Trivector Meter	Set	1.00	150000.00	150000.00
5	SITC of 5 panel board HT		1.00	150000.00	130000.00
5	VCCB	Set	1.00	2500000.00	2500000.00
6	SITC of 1000 KVA outdoor		1.00	2500000100	
•	type copper wound				
	transformers	Nos	4.00	650000.00	2600000.00
7	SITC of HT cable size 3 core				
	120 Sqmm XLPE from VCCBs				
	to transformers	Rm	1500.00	980.00	1470000.00
8	SITC of jointing kits for 3 core				
_	120 Sqmm XLPE HT cable	Nos	8.00	9500.00	76000.00
9	SITC of 150 AH, 24 volts		1.00	75000.00	75000.00
10	Battery Station	Set	1.00	75000.00	75000.00
10	SITC of 2.5 Sqmm Copper Arm Control cables				
~	10 Core 2.5 Sqmm	Rm	150.00	190.00	28500.00
a b	3 Core 2.5 Sqmm	Rm	250.00	190.00	26250.00
11	Cable & tarminations for		250.00	105.00	20230.00
	control cables				
а	10 Core 2.5 Sgmm	Nos	8.00	150.00	1200.00
b	3 Core 2.5 Sqmm	Nos	32.00	90.00	2880.00
12	SITC of 600 x 600 x 3.15 mm		32.00	30.00	
	copper earth plate complete				
	with as per specifications	Nos	8.00	6500.00	52000.00
13	SITC of Danger plates 415				
	Volts	Nos	14.00	4000.00	56000.00
14	SITC of earthing strips as per				
	specifications.				
а	40 x 5 mm Copper earth Strip	Rm	200.00	450.00	90000.00
b	40 x 5 mm GI earth strip	Rm	500.00	90.00	45000.00
C	25 x 4 mm GI earth strip	Rm	100.00	60.00	6000.00
15					

а	CO-2 type fire extingushers	Nos	10.00	4500.00	45000.00
b	Dry powder type fire				
	extingushers	Nos	10.00	3500.00	35000.00
16	SITC of Fire Buckets with stands	Nos	6.00	2500.00	15000.00
17	SITC of Dander plates 11 KV	Nos	20.00	250.00	5000.00
18	SITC of fencing wok with	1105	20.00	230.00	5000.00
	grevals etc.	Job	1.00	125000.00	125000.00
19	SITC of 300 mm dia RCC				
	Hume pipe with mainholes				
	etc. as per specifications.	Rm	200.00	350.00	70000.00
			•	TOTAL - A	10024830.00
				·	
Sr. No.	Description	Unit	Qty	Rate	Amount
1	SITC of main panel boards	Nos	3.00	1000000.00	3000000.00
2	SITC of LT Cables in under		-		
	ground trenches				
а	$3.5 \times 630 \text{ sqmm AL Cond Arm}$				
	Cable	Rm	600.00	1850.00	1110000.00
b	3.5 x 240 sqmm AL Cond Arm Cable	Rm	1000.00	775.00	775000.00
С	3.5 x 185 sqmm AL Cond Arm	KIII	1000.00	775.00	773000.00
·	Cable	Rm	1000.00	675.00	675000.00
d	3.5 x 150 sqmm AL Cond Arm				
	Cable	Rm	800.00	525.00	420000.00
е	3.5 x 95 sqmm AL Cond Arm	D	4000.00	275.00	450000 00
3	Cable SITC of cable end	Rm	1200.00	375.00	450000.00
3	terminations				
а	3.5 x 630 sqmm AL Cond Arm				
	Cable	Nos	24.00	1000.00	24000.00
b	3.5 x 240 sqmm AL Cond Arm				
_	Cable	Nos	12.00	800.00	9600.00
С	3.5 x 185 sqmm AL Cond Arm Cable	Nos	12.00	500.00	6000.00
d	3.5 x 150 sqmm AL Cond Arm	1105	12.00	300.00	0000.00
	Cable	Nos	8.00	300.00	2400.00
e	3.5 x 95 sqmm AL Cond Arm				
	Cable	Nos	8.00	250.00	2000.00
4	SITC of 600 x 600 x 6 mm GI earth plate complete with as				
	per specifications	Nos	16.00	4000.00	64000.00
5	SITC of earthing strip as per	1103	10.00	4000.00	04000.00
	specifications				
а	40 x 5 mm GI earth strip	Rm	500.00	90.00	45000.00
b	25 x 4 mm GI earth strip				
	•	Rm	300.00	60.00	18000.00
6	SITC of fire extingushers				

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Nos 10.00 4500.00 45	
b Dry powder type fire extingushers Nos 10.00 3500.00 35	5000.00
7 SITC of fire buckets with	5000.00
8 SITC of Danger plates 415	5000.00
9 SITC of 300 mm dia RCC Hume pipe with mainholes	
	00.000
Construction of service station Building Job 1.00 2000000.00 2000	00.00
11 SITC of Tubular poles including cabling & electrical	
.	00.00
TOTAL - B 11771	1000.00
TOTAL A + B 21795	830.00
ADD FOR UNVBN CHARGES @	
26 % 5666	915.80
27462	2745.80
ADD NBCC CHARGES @ 10%2746	5274.50
TOTAL30209	020.30

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Item no. 2.42 To consider & approve the RCE for the installation of DG Sets

At present the Institute is dependent on UHBVN supply. Earlier the state Government used to provide uninterrupted electric supply to the Institute for 24 Hrs. However, in recent years, there is a shortage of electricity in the State and there are frequent load shedding in the campus. This has been severely hampering the Instructional & research work in the Institute. With the present scenario no improvement is in foresight. It is, therefore, proposed that two Nos. DG sets 1250 KVA capacity each be provided so that the normal functioning in respect of Instructional & Research work be restored in the Institute. The estimated cost for the DG sets including accessories & housing was worked out at Rs. 154.00 lacs.

The Building & Works Committee may consider & approve the above estimate.

SITC of 1250 KVA DG set including automatic panel accessorics & other related items 2 Nos. Rs. 6500000.00 Rs. 13000000.00 Housing etc. 1 No. Rs.10,00,000.00 Rs. 10,00,000.00 NBCC Charges 10% Rs. 1400000.00 Rs. 15400000.00

Rs. 154.00 Lacs

Item No. 2.43 To Adopt Delhi Schedule of Rates for framing estimates

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The Institute has been using Haryana Schedule of Rates (HSR) for framing estimates for various construction works. However, the Delhi Schedule of Rates (DSR) as used by CPWD is more elaborate and up-to-date. The officials of MHRD, Govt. of India during the discussion for plan proposal 2004-2005 pointed out that NIT, Kurukshetra should adopt DSR instead of HSR for framing estimates in future.

The Building & Works Committee may consider & approve the above proposal i.e. using DSR instead of HSR for framing estimates.

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