



AGENDA FOR 3rd MEETING OF BUILDING & WORKS COMMITTEE

APRIL 26, 2005



**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

AGENDA FOR 3rd MEETING OF BUILDING & WORKS COMMITTEE

VANUE: Office of Dr. G L Jambhulkar,
Dy. Educational Advisor (NITs),
Room No. 529, C-Wing, 5th Floor,
MHRD, Shastri Bhawan,
New Delhi

DAY : Tuesday

DATE : 26.04.2005

TIME : 11:00 AM

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CONSTITUTION OF BUILDING & WORKS COMMITTEE

1. Dr. N P Mehta
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 Development,
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, 1st Floor, Sector 17E,
Chandigarh Invitee
10. Sh. R P S Lohchab
Registrar,
NIT, Kurukshetra. Member-Secretary

Item No. 3.1

To confirm the minutes of the 2nd meeting of the Building & Works Committee held on 27.8.2004

The minutes of 2nd meeting of BWC were circulated amongst the members vide No. EO/2nd BWC/6600-08 dated September 8.9.2004. No comments were received from any member. The minutes may, therefore, be confirmed.

Item No. 3.2

To report the action taken on the minutes of the 2nd meeting of Building & Works Committee (BWC) held on 27.8.2004

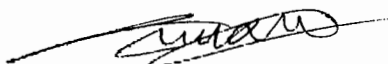
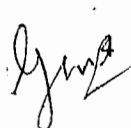
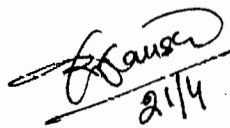

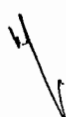
Item No.	Subject	Decision taken	Action taken
2.1	To consider the minutes of the 1 st meeting of the BWC held on 8.11.2002.	Minutes confirmed	No action is required
2.2	To report the action taken on the minutes of the 1 st meeting of the BWC held on 8.11.2002.	<p>The Committee noted the action taken on various decision taken by BWC.</p> <p>Item (14.3 & 15.2). The Chief Engr. PWD (B&R) was requested to expedite the installation of separate tube well for PWD Colony.</p> <p>Item (17.7, 2.4) The BWC approved the constn. of New Labs for the emerging areas in different disciplines with RRCE amounting to Rs. 160.67 lacs.</p> <p>Item(18.4,2.26) 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. and Rs. 1.35 lacs to clear the liabilities.</p>	<p>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)</p> <p>The work is completed and taken over</p> <p>Work is completed and taken over.</p>

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21/9
24/5

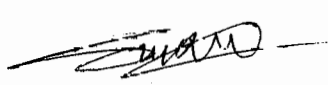


		<p>Item (18.8) The BWC approved the RCE amounting to Rs. 10.05 lacs for Storm Water Drains and Garbage Bins in the Institute campus.</p> <p>Item (19.3) The BWC approved the RCE amounting to Rs. 167.62 lacs for constn. of 6 Nos. Lect. Theatres.</p> <p>Item (19.4) The BWC approved the RCE amounting to Rs. 221.80 lacs for Constn. of a Gymnasium Hall in the Institute.</p> <p>Item (19.5, 19.6 & 2.6) The BWC approved the RRCE amounting to Rs. 158.80 lacs for constn. of Conference Hall-cum-Retiring / Refresh- ment Room for Day Scholar in the Institute.</p> <p>Item (19.7, 2.9) The BWC approved the RRCE amounting to Rs. 147.80 lacs for constn. of 7Nos. new labs in Mech. Engg. Dept. and 2Nos.labs. in Computer & Ec. Engg. Dept.</p> <p>Item (19.8 & 2.5) The BWC approved the RRCE amounting to Rs.58.66 lacs for the Provision of False Ceiling & Acoustic Treatment in Jubilee Hall.</p>	<p>Work is completed and taken over.</p> <p>Constn. of 6 Nos. Lecture Theatres is complete and these are in use. Link Corridor is also completed and taken over.</p> <p>Funds awaited</p> <p>Work completed and taken over.</p> <p>Work completed and taken over.</p> <p>Work is complete and taken over.</p>
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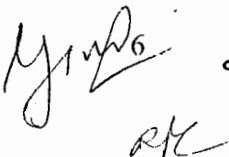



		<p>Item (19.10) The BWC approved the RCE amounting to Rs. 30.26 lacs for Renovation of Existing Reflection Tank.</p> <p>Item(19.11)The BWC approved the RCE of Rs.125.85 lacs for the provision of Glazed Tiles in Hostels, Guest House & Residences (Toilets & Kitchens) and Instructional Buildings (Toilet).</p> <p>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.</p> <p>Item (19.15)The BWC approved the RCE amounting to Rs.18.39 lacs.for the constn. of Training & Placement Department in the Institute.</p> <p>Item(19.18 & 2.31) The BWC approved the Revised rough Cost estimate amounting to Rs. 16.86 lacs for carrying out Renovtn/Special repairs of Lawns in the College.</p> <p>Item (20.3, 2.10) The BWC approved the RRCE amounting to Rs.24.28 lacs for PCC Approach Path to the residences.</p>	<p>Funds awaited.</p> <p>Funds awaited.</p> <p>Funds awaited.</p> <p>Funds awaited.</p> <p>Work is under progress.</p> <p>Rs. 24.28 lacs released during 2001-2002, 2003-04 and 2004.05. Work completed and taken over.</p>
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		<p>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.</p> <p>Item (20.5, 2.11) The BWC approved the RRCE amounting to Rs.6.64 lacs for the provision of front compound wall in E & F type Residences in the Institute.</p> <p>Item (17.16, 20.12 & 1.9) The BWC approved the RRCE amounting to Rs. 64.15lacs for constn. of Community Centre in Institute.</p> <p>Item (20.13) The BWC approved for auctioning the existing Gas Plant and to convert it into Canteen/any other utility.</p> <p>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.</p> <p>Item (1.4) The BWC approved the RCE amounting to Rs. 593.38 lacs for the Construction of (350 Seaters) Boys' Hostel in NIT, Kurukshetra.</p>	<p>Rs. 10.00 lacs released during Financial Year 2004-2005. Tenders are in progress.</p> <p>Work completed and taken over.</p> <p>Funds awaited.</p> <p>BOG approved this item. Process of auction is in progress.</p> <p>Most of the works have been allotted to NBCC Ltd. and their performance is satisfactory as per evaluation report (page-29).</p> <p>Funds awaited</p>
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		<p>Item (1.5, & 2.13) The BWC approved the RCE amounting to Rs. 4.09 lacs for the Construction of Front Compound Wall in G-type houses in NITK.</p> <p>Item (1.6 & 2.14) The BWC approved the RRCE amounting to Rs. 111.24 lacs for the Construction of External Boundary Wall of the NIT, Kurukshetra.</p> <p>Item (1.7) 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.</p> <p>Item (17.19 & 1.8) The BWC approved the RRCE amounting to Rs. 34.95 lacs for extension block of Guest House Buildg. (i/c Renovation of existing Guest House Bldg), in NIT, Kurukshetra.</p> <p>Item (1.11 & 2.7) The BWC approved the RRCE amounting to Rs. 15.11 lacs for Construction of Parking shed for vehicles at different places in NITK</p>	<p>Work is completed and taken over</p> <p>Work is under progress</p> <p>Work is completed and taken over</p> <p>Work is completed and taken over</p> <p>Work of Parking sheds is nearly under completion and likely to be taken over</p>
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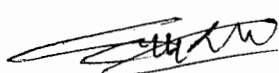



		Item (1.12 & 2.8)The BWC approved the RRCE amounting to Rs. 15.73 lacs for Replacement of ACC sheets and provision of IRC fabrics in Workshop Block etc., NIT, Kurukshetra.	Work is in progress
2.3	To consider & approve the RRCE for Re-construction of damaged/cracked/tilted compound wall in the residences.	The BWC approved the RRCE amounting to Rs. 58.32 lacs for re-construction of damaged/tilted/cracked / compound walls.	Work is completed and taken over
2.4	To consider & approve the RRCE for construction of New Laboratories for Emerging Areas in Different Disciplines	The BWC approved the RRCE amounting to Rs. 160.67 for construction of New Laboratories for Emerging Areas in Different Disciplines	Work is completed and taken over
2.5	To consider & approve the RRCE for Acoustic Treatment in Jubilee Hall	The BWC approved the RRCE amounting to Rs. 58.66 for Acoustic Treatment in Jubilee Hall	Work is complete and taken over
2.6	To consider & approve the RRCE for Construction of Conference Hall-cum-Refreshment Room for Day Scholars	The BWC approved the RRCE amounting to Rs. 158.80 lacs for the construction of Conference Hall-cum-Refreshment Room for Day Scholars	Work is completed and taken over
2.7	To consider & approve the RRCE for constn. of Parking sheds.	The BWC approved the RRCE amounting to Rs. 15.11 lacs for the construction of Parking sheds.	Work is completed and taken over
2.8	To consider & approve the RRCE for replacement of ACC Sheets & provision of IRC Fabrics in Workshop Block	The BWC approved the RRCE amounting to Rs. 15.73 lacs for the replacement of ACC Sheets & provision of IRC Fabrics in Workshop Block.	Work is in progress
2.9	To consider & approve the RRCE for constn. of 7 No. New Labs. In Mech. Engg. Deptt. and 2 Nos. Labs. in Comp. &	The BWC approved the RRCE amounting to Rs. 147.80 lacs for the constn. of 7 No. New Labs. In Mech. Engg.	Work is completed and taken over and a separate item for revision of cost is being put up vide item No. 3.3 to clear the pending liabilities

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	Electronics Engg. Deptt.	Deptt. and 2 Nos. Labs. in Comp. & Electronics Engg. Deptt.	
2.10	To consider & approve the RRCE for provision of PCC approach path to the residences.	The BWC approved the RRCE amounting to Rs. 24.28 lacs for the provision of PCC approach path to the residences.	Work is completed and taken over
2.11	To consider & approve the RRCE for provision of front compound wall in E & F type residences in the Institute.	The BWC approved the RRCE of Rs. 6.64 lacs for provision of front compound wall in E & F type residences	Work is completed and taken over
2.12	To consider & approve the RRCE for Constn. of additional. 200 seaters Girls Hostel.	The BWC approved the RRCE amounting to Rs. 375.26 lacs for Constn. of addl. 200 seaters Girls Hostel.	Work is under progress. A separate item is put up vide item No. 3.4 for revision of cost
2.13	To consider & approve the RRCE for Constn. of front compound wall in G-type houses.	The BWC approved the RRCE amounting to Rs. 4.09 lacs for Constn. of front compound wall in G-type houses.	Work is completed and taken over
2.14	To consider & approve the RRCE for Constn. of External boundary wall around the Institute.	The BWC approved the RRCE amounting to Rs. 111.24 lacs for Constn. of External boundary wall around the Institute.	Work is under progress
2.15	To consider & approve the RRCE for Spl. Repair/renovation of Plastering, Flooring and PH fittings in Messes & Toilets in Hostel Nos. 1 to 5.	The BWC approved the RRCE amounting to Rs. 96.97 lacs for Spl. Repair/renovation of Plastering, Flooring and PH fittings in Messes & Toilets in Hostel Nos. 1 to 5	Work is completed. A separate item No. 3.5 is put up to clear pending liabilities
2.16	To consider & approve the RRCE for New Additional block & Seminar Hall Building.	The BWC approved the RRCE amounting to Rs. 1.72 lacs for New Additional block & Seminar Hall Building. (Pending Liabilities)	Funds received to clear the liabilities during financial year 2004-05
2.17	To consider & approve the RRCE for Const. Of Computer & Electronics Engg. Lab.	The BWC approved the RRCE amounting to Rs. 0.45 lacs for Const. Of Computer & Electronics Engg. Lab. (Pending Liabilities)	Funds received to clear the liabilities during financial year 2004-05

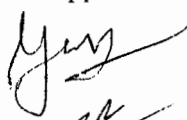
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2.18	To consider & approve the RRCE for Special repair to buildings i.e. Civil Engg. Deptt., Hostel & Residences.	The BWC approved the RRCE amounting to Rs. 0.10 lacs for Special repair to buildings i.e. Civil Engg. Deptt. Hostel & Residences. (Pending Liabilities)	Funds received to clear the liabilities during financial year 2004-05
2.19	To consider & approve the RCE for constn. of New Equipment shop in Workshop.	The BWC approved the RCE amounting to Rs. 78.00 lacs for constn. of New Equipment shop in Workshop.	Tenders are under progress
2.20	To consider & approve the RCE for provision of Air Conditioning in Institute Library	The BWC approved the RCE amounting to Rs. 97.00 lacs for provision of Air Conditioning in Institute Library	Funds awaited
2.21	To consider & approve the RCE for provision of High Mast Security Lights and Boundary in the Community Parks.	The BWC approved the RCE amounting to Rs. 18.67 lacs for provision of High Mast Security Lights and Boundary in the Community Parks out of plan grants and Rs.18.67 lacs out of Institute Development Funds.	Work is under completion
2.22	To consider & approve the RCE for provision of Chair Link fencing around Tennis Court in Sports Ground.	The BWC approved the RCE amounting to Rs. 7.23 lacs for provision of Chair Link fencing around Tennis Court in Sports Ground.	Work is completed and taken over
2.23	To consider & approve the RCE for provision of Green Room etc. in Open Air Theatre	The BWC approved the RCE amounting to Rs. 5.00 lacs for provision of Green Room etc. in Open Air Theatre	Tenders are initiated
2.24	To consider & approve the RCE for constn. of 2 Nos. CAD Labs. in Mech. Engg. Deptt.	The BWC approved the RCE amounting to Rs. 11.00 lacs for constn. of 2 Nos. CAD Labs. in Mech. Engg. Deptt.	Tenders are initiated
2.25	To consider & approve the RCE for constn. of Administrative Block in lieu of Class rooms.	The BWC approved the RCE amounting to Rs. 121.80 lacs for constn. of Administrative Block in lieu of Class rooms.	Fund awaited

2.26	To consider & approve the pending liabilities for constn. of one No. OHSR. & Tube-well.	The BWC approved to clear the liabilities amounting to Rs. 1.35 lacs for constn. of one No. OHSR. & Tube-well.	Work is completed and taken over
2.27	To consider & approve the RRCE provision. of Snowcem in Institutional Buildings	The BWC approved the RRCE amounting to Rs. 5.73620 lacs for provision. of Snowcem in Institutional Buildings	Work is completed and taken over
2.28	To consider & approve the RCE provision. of False Ceiling & Carpeting in Library-cum-Conference Hall of Civil Engg. Deptt.	The BWC approved the RCE amounting to Rs 0.54 lacs for provision. of False Ceiling & Carpeting in Library-cum-Conference Hall of Civil Engg. Deptt.	Work is completed and taken over
2.29	To consider & approve the RCE provision. of False Ceiling, Carpeting and Aluminium glazing in Computer lab. of Civil Engg. Deptt.	The BWC approved the RCE amounting to Rs 1.16 lacs for provision. of False Ceiling, Carpeting and Aluminium glazing in Computer lab. of Civil Engg. Deptt.	Work is completed and taken over
2.30	To consider & approve the RRCE for constn. of two Nos. security Posts and 6 Nos. moveable speed breaking system.	The BWC approved the RRCE amounting to Rs. 2.66 lacs for constn. of two Nos. security Posts and 6 Nos. moveable speed breaking system.	Work is completed and taken over
2.31	To consider & approve the RCE provision. of Aluminium doors, glazing in cup-boards & blinds etc. in VLSI in EC & CE Deptt.	The BWC approved the RCE amounting to Rs 1.42562 lacs for provision. of Aluminium doors, glazing in cup-boards & blinds etc. in VLSI in EC & CE Deptt	Work is complete and taken over
2.32	To consider & approve the RCE provision. of False Ceiling & Carpeting in Library-cum-Conference Hall of Mech. Engg. Deptt.	The BWC approved the RCE amounting to Rs 0.93150 lacs for provision. of False Ceiling & Carpeting in Library-cum-Conference Hall of Mech. Engg. Deptt.	Work is complete and taken over

2.33	To consider & approve the RRCE of Renovation/Special Repairs of lawns.	The BWC approved the RRCE amounting to Rs. 16.86 lacs for Renovation/Special Repairs of lawns.	Work is under progress
2.34	To consider & approve the RRCE of Special Repairs of Hostels & Instructional Buildings & Residences.	The BWC approved RRCE of Rs. 66.76 lacs for Special Repairs of Hostels & Instructional Buildings & Resi.	Work is under progress
2.35	To consider & approve the RCE for Renovation of Lecture Theatre, Laboratories etc.	The BWC approved the RCE amounting to Rs. 40.15 lacs for Renovation of Lecture Theatre, Labs etc.	Funds awaited
2.36	To consider & approve the RCE for the replacement of water supply and public health disposal pumps and distribution network.	The BWC approved the RCE amounting to Rs. 30.25 lacs for the replacement of water supply and public health disposal pumps and distn. network.	Funds awaited
2.37	To consider & approve the RCE for renovation of Electrical fittings in workshop.	The BWC approved the RCE amounting to Rs. 20.03 lacs for reno. of Elect. fittings in w/shop	Funds awaited
2.38	To consider & approve the RCE for repair/modification of Instructional Building.	The BWC approved the RCE amounting to Rs. 15.38 lacs for repair/modification of Instructional Building.	Funds awaited.
2.39	To consider & approve the RCE for providing ACs, wiring for ACs & computers etc. in computer Lab. of Civil Engg. Deptt.	The BWC approved the RCE amounting to Rs. 1.23 lacs for providing ACs, wiring for ACs & computers etc. in computer Lab. of CED	Work is completed and taken over
2.40	To consider & approve the RCE for provision of geysers and exhaust fans in Hostel Toilets.	The BWC approved the RCE amounting to Rs. 8.00 lacs for provision of geysers and exhaust fans in Hostel Toilets.	Funds awaited
2.41	To consider & approve the RCE for installation of HT/LT sub station.	The BWC approved the RCE amounting to Rs. 302.00 lacs for installation of HT/LT sub station.	Funds awaited
2.42	To consider & approve the RCE for installation of DG sets.	The BWC approved the RCE amounting to Rs. 154.00 lacs for installation of DG sets.	Funds awaited



Item No. 3.3 **To consider & approve the final expenditure for Construction of 7 Nos. New labs. in Mechanical Engineering Department and 2 Nos. labs. in Computer & Electronics Engineering Department (Computer Engineering Block)**

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. 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. were 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**
 - (i) Machine Vision Lab 150 sqm
 - (ii) Computer Assisted Machine Drawing Hall 200 sqm.
 - (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. **Computer Engg. Department**
 - (i) Software Engg. Lab. 300 sqm
3. **Electronics Engg. Department**
 - (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 namely, *Computer Engineering Block*. This block will be used by Computer Engineering deptt. for which no separate block is available at present. The entire amount of Rs.135.80 lacs was received by 2002-03. However, to make the building functional, it was necessary to provide A.C.s and associated fittings in three of the labs. for which an additional amount of Rs. 12.00 lacs was required. These provisions were approved

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by the Building & Works Committee vide item No. 2.9 and the amount was received from Govt. of India during the financial year 2004-2005. Now, the work has been completed in all respects leaving an additional liability of Rs. 2.11 lacs, thus enhancing the total cost of the to Rs.149.91 lacs.

It is, therefore, requested that the BWC may consider and approve the final cost of the above work amounting to Rs. 149.91 lacs.

REVISED COST ESTIMATE FOR COMPUTER LAB BUILDING AT NIT KKR

	RS.	IN	LAKHS
APPROVED COST			147.80
REVISED COST			
CIVIL WORK I/C WATER PROOFING WORK/FRP DOME			121.66
AIRCONDITIONING WORK			7.50
AC PANEL			3.47
ALUMINIUM WORK			0.84
MISC. WORK SUCH AS SEWER LINE STORM WATER LINE			2.81
			<hr/> 136.28
NBCC CHARGE @ 10%			13.63
TOTAL			<hr/> 149.91
			<hr/> 2.11 <hr/> <hr/>
	Addl. Requirement		

Sd/-
Project Manager
NBCC Ltd.

[Signature] 13 [Signature] 21/4 [Signature]

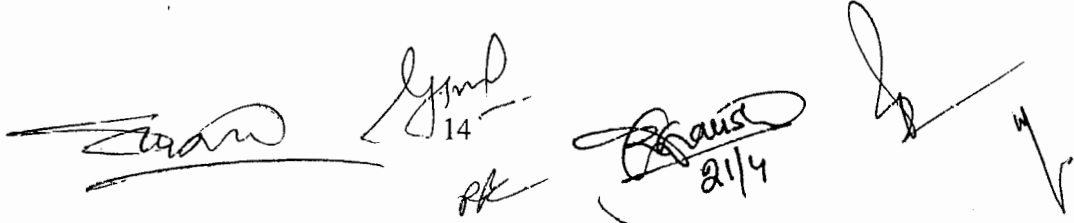
Item No. 3.4 **To consider and approve the final cost of Construction of additional
200 seater Girls' Hostel**

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. However, the trend changed drastically during the last decade. Consequently, there is increasing demand of seats in the Girls' Hostel. At present the girl students residing in girls hostel are about 150, 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 Institute is about 10% of the total strength of about 1500 students. 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 staircases 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 was not included. The cost of these additional items including 10% departmental charges for NBCC worked out to be Rs. 77.43 lacs, which was approved by the Building & Works Committee vide item No. 2.12 and released by Govt. of India during the financial year 2004-2005.

The construction of the building is in the final stage. Before taking over the building, the Director, NIT, Kurukshetra constituted a high power committee consisting of the

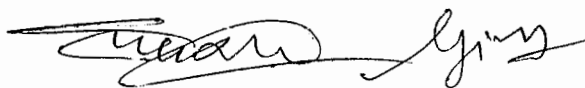
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following members asking for an inspection of the building and to suggest any last moment addition/alteration to enhance the functional utility of the building:

1. Dr. Krishan Gopal, Dean (Planning & Development)
2. Dr. V K Arora, Chief Warden & Chairman, Civil Engg. Deptt.
3. Dr. V K Sehgal, Professor of Structural Engg.
4. Dr. R C Bhattacharjee, Professor-In-Charge (Estate & Constn)
5. Sh. Maya Ram, Estate Officer

The above committee visited the hostel complex on 6.01.05 and suggested certain addition and alteration (minutes enclosed at page 16) to the building, which were accepted by the Director. Due to these additional scope of work and minor alteration as well as slight increase in cost on the basis of actual measurement, the overall cost of the building increased by Rs. 68.05 lacs, thus enhancing the total cost of the building to Rs. 443.31 lacs. The work is almost complete, which will be taken over soon.

It is, therefore, requested that the BWC may consider and approve the final cost of the above work amounting to Rs. 443.31 lacs.



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**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

No.EO/3648/

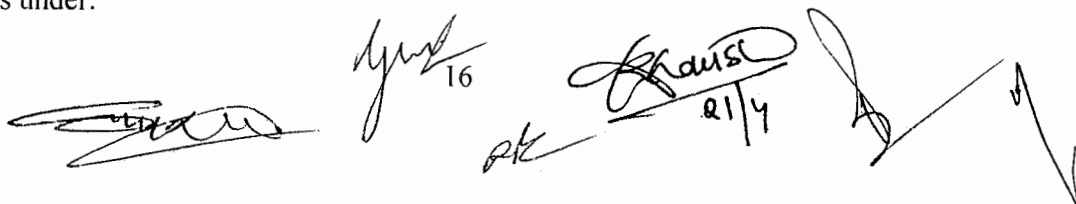
Date: January 07, 2005

A committee consisting of the following members was constituted by the Director vide letter No. EO/3648/07 dated 5.01.2005. The committee was asked to visit old and new girls hostel (under construction) and suggest suitable minor addition and/or alteration to the new girls hostel, if necessary, to enhance the functional utility of both the hostels. The committee is as under:

1. Dr. Krishan Gopal,
Dean P&D
2. Dr. V K Arora
Chief Warden & Chairman, Civil Engg. Deptt.
3. Dr. V K Sehgal
Prof. of Structural Engineering, Civil Engg. Deptt.
4. Dr. R C Bhattacharjee - Convenor
Prof. I/C(Estate & Constn.)
5. Sh. Maya Ram
Estate Officer

The committee visited the sites of new and old girls hostel on 6.01.2005 at 12:00 noon and had an on the spot assessment of both the hostels. The committee noted that the new girls hostel (200 seats) was proposed to be constructed keeping in view the shortage of seats in the old girls hostels for the existing B. Tech. and M. Tech. girl students studying in the Institute as well as anticipated increase in intake of girls students due to proposed augmentation of over all intake in the Institute. It was further noted that over all intake at the B. Tech. level has not been increased so far, thus making about 100 seats surplus at the present time. Keeping this fact in view, the committee suggested that on taking over the new girls hostel, it may be used for housing the 2nd, 3rd and final year B. Tech. students as well as M. Tech./Ph.D. students while the old girls hostel (double storey portion) be used for housing the first year girls students only. Further, the single storey portion of the old girls hostel be converted into a field hostel that would be utilized for accommodating the delegates coming for attending conferences/workshops/training programmes etc. from time to time. However, the single storey portion of the old girls hostel should be separated from the double storey portion by constructing a partition wall.

As regards minor addition and alteration in the new girls hostel, the committee decided as under:


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1. Separate boundary wall be constructed for the new girls hostel alongwith one entry gate at the front.
2. The storm water drain in front of the new girls hostel be completely covered inside the compound wall by laying one meter internal dia. heavy duty hume pipe.
3. PCC approach be provided in the front and back side of the new girls hostel.
4. Wire gauge shutter in one door and one window be provided in each of the rooms of the hostel.
5. Separate enclosure be provided at the back of the mess to store LPG cylinders. The enclosure may be constructed with 4 ½ " brick wall upto door level and wire mesh on the top upto ceiling level.
6. 4½ " partition wall alongwith cooking slab be constructed in the cooking service area as discussed at site.
7. Adequate number of water taps be provided in the washing area.
8. Exhaust fans be provided in kitchen area, dinning hall, computer room and recreation hall.
9. Separate water connection for both the wings be provided from the main line with L.A pipes.
10. Tube light fittings (mirror optics) be provided in recreation room as well as computer room.
11. CFL type/tube light fittings be provided in the corridors.
12. Tube light fittings be provided in all the students rooms, guest room, warden office etc.
13. Ceiling fan rods in the mess, recreation room, computer room etc. be extended suitably.
14. Main electric cable be provided for electric connection since it is not provided by UHBVN Ltd.
15. Adequate number of security lights be provided.
16. New furniture be provided in all the rooms, mess, computer room, recreation room, guest room and offices etc.

Submitted for the approval of the Director please.

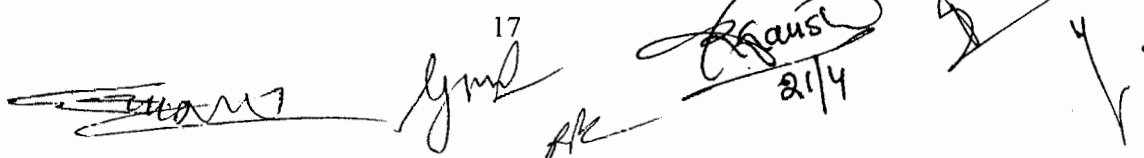
Sd/-
(Maya Ram)

Sd/-
(Dr. R C Bhattacharjee)

Sd/-
(Dr. V K Sehgal)

Sd/-
(Dr. V K Arora)

Sd/-
(Dr. Krishan Gopal)

17


REVISED ROUGH COST ESTIMATE FOR GIRLS HOSTEL (200 ROOMS)

<u>1</u>	<u>CIVIL WORKS</u>	<u>Up to Plinth</u>	<u>Package - A</u>	<u>Package - B</u>	<u>Total</u>
	SCHEDULE ITEMS	5042966.95	10026282.54	8806795.10	
	NONSCHEDULE ITEMS	40654.00	2593038.00	1972237.40	
		5083620.95	12619320.54	10779032.50	28481973.99

P. H WORKS

SCHEDULE ITEMS	0.00	301516.18	230964.80	
NONSCHEDULE ITEMS	0.00	477727.42	413393.68	
	0.00	779243.60	644358.48	1423602.08

ELECTRICAL WORKS

SCHEDULE ITEMS	0.00	246214.23	183449.76	
NONSCHEDULE ITEMS	0.00	804185.00	549940.00	
	0.00	1050399.23	733389.76	1783788.99

EXTRA ITEM (CIVIL + ELECTRICAL)	0.00	1173132.86	820998.23	1994131.09
TOTAL - A	5083620.95	15622096.23	12977778.97	33683496.15

Say **336.83 Lakhs**

ADDITIONAL WORKS

		Approved Amount	Revised Amount	Additional Requirmt. of Funds
1	(RCC JALI)	4.00	2.72	-1.28
2	PVC RAILING ON STAIR CASE	No Provision	0.16	0.16
3	BOUNDARY WALL OF GIRLS HOSTEL & ORNAMENTAL GATE	8.00	11.12	3.12
4	CHECK POST & GATE	1.00	1.00	0.00
5	PROVISION OF CONCRETE PAVEMENT & KERB CHANNEL	4.25	6.93	2.68
6	STORM WATER DRAIN (HUME PIPE)	No Provision	5.99	5.99

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7	WIRE GAUGE SHUTTER	No Provision	7.93	7.93
8	LAYING G I PIPE LINE	No Provision	0.95	0.95
9	MAIN ELECT.CABLE FOR ELECTRICAL CONNECTION	No Provision	1.26	1.26
10	FURNITURE (ROOMS)	10.00	15.18	5.18
11	Separate enclosures be provided at the back of the mess to store LPG cylinders. The enclosures may be constructed with 4 ½ " brick wall upto door level and wire mesh on the top upto ceiling level.	0.00	0.30	0.30
12	Exhaust fans be provided in kitchen area, dinning hall, computer room and recreation hall.	No Provision	1.00	1.00
13	Tube light fittings (mirror optics) be provided in recreation room as well as computer room.	No Provision	2.40	2.40
14	CFL type/ tube light fittings be provided in the corridors.	0.52	1.04	0.52
15	Tube light fittings be provided in all the student room, guest room, warden office etc.	No Provision	2.80	2.80
16	Adequate number of security lights to be provided.	No Provision	2.10	2.10
17	Water Cooler	No Provision	2.00	2.00
18	Sheets on expansion joints	No Provision	0.80	0.80
19	PROVISION OF LANDSCAPING	0.50	0.50	0.00

TOTAL - B	Sub Total	28.27	66.18	37.91
			403.01	
NBCC Charges 10%			40.30	
	Revised total cost		443.31	
	Approved Cost		375.26	
	Addl. Requirement		68.05	Lakhs

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Sd/-
Project Manager
NBCC Ltd.
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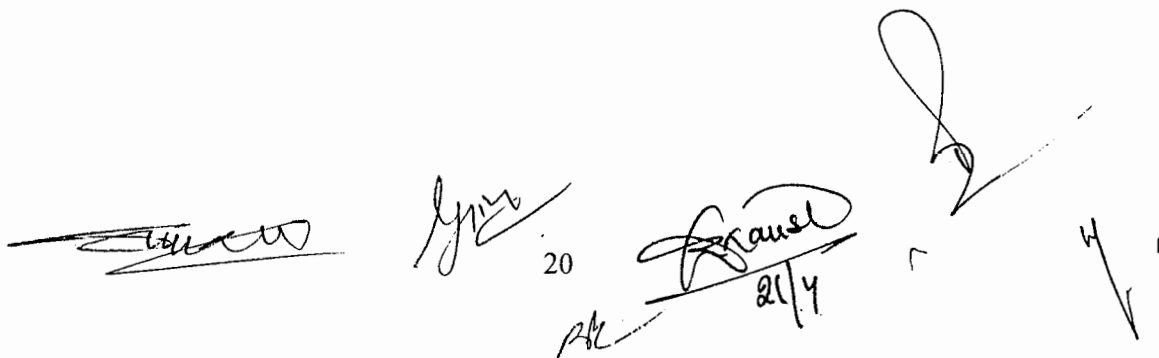
Item No. 3.5 **To consider and approve the final expenditure for Special repairs/ renovation of Plastering, Flooring & PH fittings in Messes & Toilets in Hostel Nos. 1 to 5**

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 became extremely shabby due to swelling of plaster in the kitchen, service counter, pantry, dining hall, recreation room etc. These rooms needed complete renovation by way of re-plastering and distemping etc. Similarly, the public health fittings, floorings and plastering in toilets 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 Institute at an estimate cost of Rs. 69.48 lacs.

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 needed replacement. Thus, the scope of work was slightly modified. The NBCC tendered the entire work with revised scope and specifications for Rs. 96.97 lacs, which was approved by the BWC vide item No. 2.15 and the additional amount of Rs. 51.32 lacs was released by Govt. of India during the financial year 2004-2005.

During the renovation of toilets, it was found that the C.I. stack pipes (4 to 5 Nos. in each toilet) got completely worn out needing full replacement, thus increasing the requirement of C.I. stack pipes manifold. Due to this additional requirement, the cost of the work has increased by Rs. 23.80 lacs and the total cost has increased to Rs. 120.77 lacs. The work has been completed in all respects and it was taken over from NBCC.

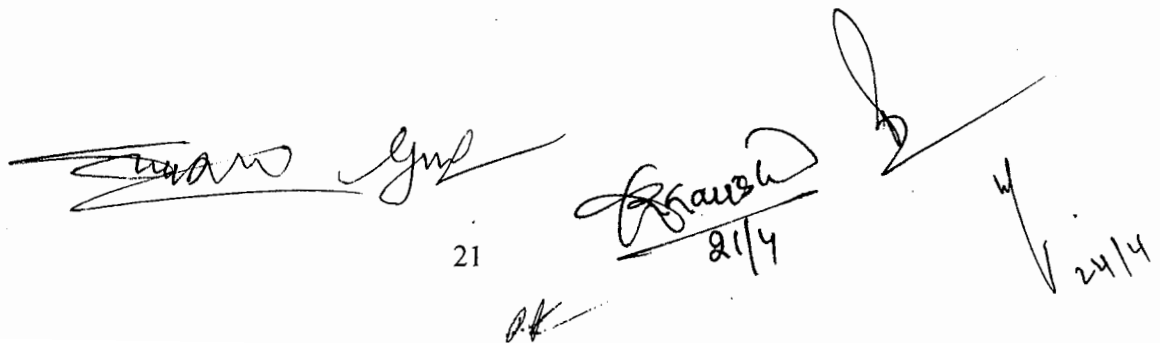
It is, therefore, requested that the BWC may consider and approve the final expenditure of Rs. 120.77 lacs for the above work.

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

DISMENTLING ITEM	Amount (Rupees)
SCHEDULE ITEMS	257848.74
NON SCHEDULE	43515.40
Sub Total	<u>301364.14</u>
 CIVIL WORK	
SCHEDULE ITEMS	5179888.11
NON SCHEDULE	757663.00
Sub Total	<u>5937551.11</u>
 SANITORY WORK	
SCHEDULE ITEMS	1115345.19
NON SCHEDULE	2090405.18
Sub Total	<u>3205750.37</u>
 ELECTRICAL	
NON SCHEDULE	971850.00
 EXTRA ITEMS	
	<u>766050.18</u>
N B C C CHARGES 8%	11182565.80
	<u>894605.26</u>
TOTAL	<u><u>12077171.06</u></u>
Approved Cost	9697000.00
Addl. Requirement	2380171.06
Say	Rs. 23.80 Lakhs

Sd/-
Project Manager
NBCC Ltd.



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Item No. 3.6 **To consider and approve the final expenditure for the Provision of (a) Fixing of welded mesh around Volley ball court, and (b) 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 were created against the approved estimated cost as shown below:

BWC Item	Name of Work	Approved estimated cost	Revised Cost	Amount transferred to NBCC	Balance Requirement
		Rupees in lacs			
EQP.	Fixing of welded mesh around Volley ball court	7.65	8.71	7.90	0.81
2.22	Provision of Chain link fencing etc. around tennis court in Sports ground	7.23	9.094	7.00	2.094

During execution, the scope of work increased slightly for better functional utility. Hence, the cost increased to Rs. 8.71 lacs and 9.094 lacs respectively as shown in the above table. The works were completed and taken over long back.

It is, therefore, requested that the BWC may consider and approve the final cost of Rs. 8.71 lacs and Rs. 9.094 lacs respectively for the above two works.

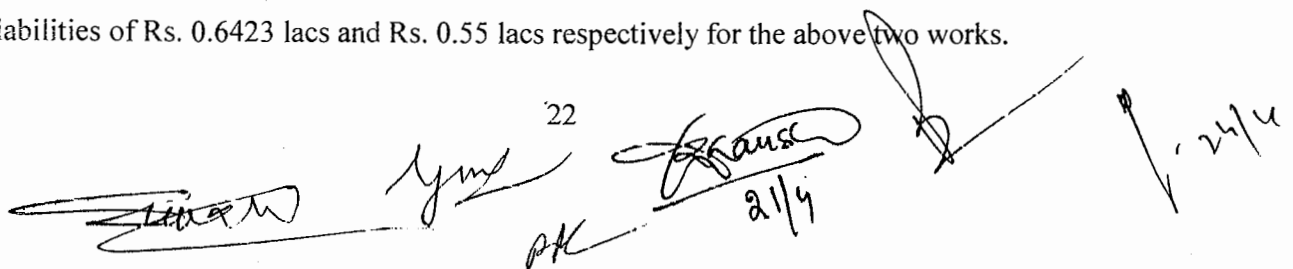
Item No. 3.7 **To consider and approve the final settlement of liabilities against (a) Extension of Health Centre Buldng, and (b) Constn. of P.G. hostel**

The following buildings were constructed by PWD(B&R), which were taken over long back. Now, while submitting *Utilization Certificates*, the PWD(B&R) communicated a little over spending against the works as shown below:

BWC Item	Name of Work	Approved estimated cost	Amount transferred to PWD(B/R)	Exp. Incurred by PWD(B/R)	Balance Requirement
		Rupees in lacs			
16.6	Hostel for P.G. Students & Research Fellows	177.20	177.20	177.8413	0.6413
17.18	Extension of H. Centre Building i/c Ext. services	12.20	12.20	12.75	0.5500

It is, therefore, requested that the BWC may consider and approve the clearing of final liabilities of Rs. 0.6423 lacs and Rs. 0.55 lacs respectively for the above two works.

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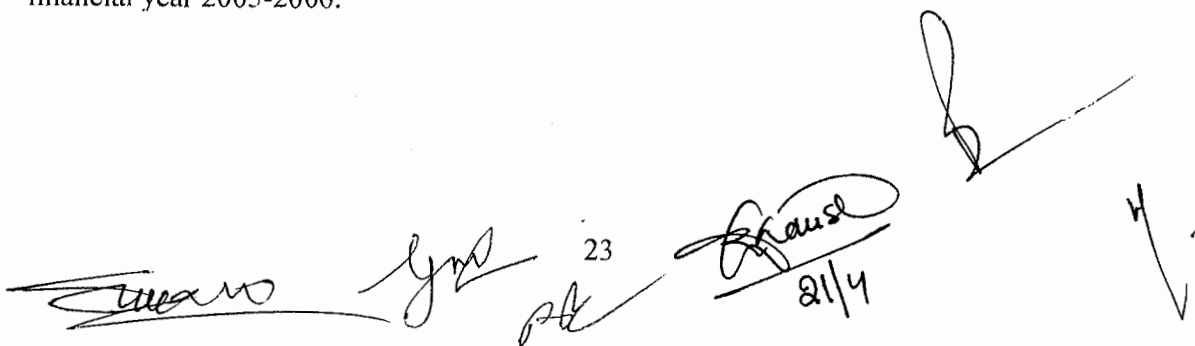
Item No. 3.8 **To consider and approve the estimate for Special Repair, Renovation and miscellaneous works in the Institute**

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. Besides, special maintenance/renovation of class rooms, computer centres, laboratories etc. have also become a routine affair. Further, the Institute lawns, herbs, shrubs & trees require special attention to maintain greenery and a pollution free environment. To maintain the above facilities including maintenance of electrical gazettes in the administrative offices etc. funds are required. The Govt. of India sanctioned and released a sum of Rs. 71.18 lacs during the financial year 2004-2005 for the special repair/renovation of campus out of which a sum of Rs. 67.31 lacs was spent, leaving a balance of Rs. 3.87 lacs only.

During the current financial year, the following amount is required for carrying out the above special maintenance/renovation works:

	Amount (Rs. In lacs)
1. Civil Maintenance	15.00
2. PH Maintenance	5.00
3. Electrical Maintenance	6.00
4. Horticultural Maintenance	2.50
5. Mtc. of Communication facilities	8.00
6. Mtc. of electronic gazettes(Computer, printer, photocopier, hardware etc for admn. Offices	3.00
7. Renovation of labs, class rooms etc. & Miscellaneous i/c 1 No. Institute main gate	20.50
Total	60.00 lacs

It is, therefore, requested that the BWC may consider and approve the estimate amounting to Rs. 60.00 lacs for the special repair/renovation works in the Institute during the financial year 2005-2006.

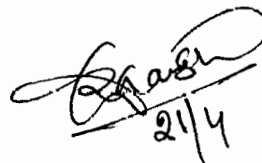
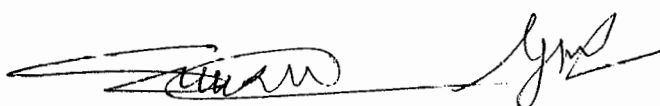


Item No. 3.9 **To consider and approve the RCE for construction of boundary wall etc. around hostel No. 3**

The first year students admitted to the Institute are accommodated in Hostel No. 3 in the campus. This hostel including all other boys' hostels are open from all sides without having any boundary wall. The first year students need special protection during 1st semester due to the menace of possible ragging. As per the orders of the Hon'ble Supreme Court of India the ragging on the campus is banned and the 1st year students ought to be provided with special care and protection. The 1st year hostel (hostel No. 3) at present is accessible by trespassers from all directions, thus causing serious security hazard for the inmates.

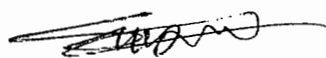
In view of the above, it is imperative that boundary wall alongwith security lights be provided around hostel No. 3 to avoid any trespassers entering into the hostel. An estimate amounting to Rs. 15.74 lacs has been submitted by NBCC for the above work.

It is, therefore, requested that the BWC may consider and approve the estimate amounting to Rs. 15.74 lacs for the construction of boundary wall etc. around hostel No.3 of the Institute.



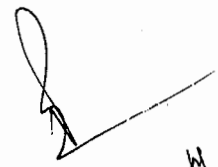
ROUGH COST ESTIMATE FOR BOUNDARY WALL OF HOSTEL NO 3 AT NIT, KKR

Sr.No.	DSR Item No.	Description	QTY	UNIT	RATE (Rs.)	Premium	TOTAL AMOUNT RATE (Rs.)	(Rs.)
<u>CIVIL WORK</u>								
1	2.8.1.	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, with in a lead of 50 m.						
		All kinds of soil	359.78	Cum	93.55	19.28%	111.59	40146.57
2	4.5.8	Providing & laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level. 1:4:8 (1 Cement: 4 Coarse sand: 8 Graded Stone aggregate 40 mm nominal size)	59.96	Cum	1404.70	19.28%	1675.53	100464.55
3	6.1.14	Brick work with F P S bricks of class designation 165.50 + 75 in foundation and plinth 220.66 = in Cement mortar 1:6 (1 Cement : 6 Coarse Sand)	386.16	Cum	-	-	2052.17	792465.97
4	4.2	Providing & laying Damp Proof Course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded Stone aggregate 12.5 mm nominal Size)	122.59	Sqm	84.60	19.28%	100.91	12370.66
5	6.2	Extra for Brick Masonry with tile bricks of class designation 100 in superstructure from plinth level upto floor five level	220.66	Cum	206.40	19.28%	246.19	54325.15



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6	5.3	Reinforced cement Concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 Cement: 2 Coarse Sand: 4 graded stone aggregate 20 mm nominal size)	6.13 Cum	2120.65	19.28%	2529.51	15505.90
7	13.9.4	15mm cement plaster on the rough side of single or half brick wall of mix: 1:6 (1 Cement : 6 Fine Sand)	959.40 Sqm	51.00	19.28%	60.83	58362.99
8	13.11.4	12 mm cement plaster of mix 1:6 (1 Cement : 6 Fine Sand)	479.70 Sqm	46.60	19.28%	55.58	26663.88
9	13.63.3	Pointing on tile brick work with cement mortar 1:3 (1 Cement : 3 fine sand) Struck pointing	479.70 Sqm	50.10	19.28%	59.76	28666.53
10	13.79.1	Finishing wall with water proofing cement paint " Snowcem-Plus" of M/s Snowcem India Ltd. or equivalent of required shade: New Work (Two or More Coats applied @ 3.84 Kg/Sqm)	1918.80 Sqm	23.10	19.28%	27.55	52870.00
11	1.1.1 (A)	Disposal of surplus excavated earth upto 1 KM	300.00 Cum	34.77	19.28%	41.47	12442.10
12	15.34.1	Dismantling & stacking within 50 meter lead, fencing posts or struts i/c all earth work and dismantling of concrete etc. in base of T/L iron or pipe	267.00 Nos	28.70	19.28%	34.23	9140.31
13	15	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 meter lead.	500.00 Kg	3.65	19.28%	4.35	2176.86

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14	10.7.1	Providing & fixing 1 mm thick M S Sheet door with frame of 40 x 40 x 6 mm angle iron and 3mm M S gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer Using M S angles 40 x 40 x 6 mm for diagonal braces	20.00 Sqm	986.55	19.28%	1176.76	23535.14
15	NS	Providing & fixing Glass Pieces on the top of Boundary Wall	533.00 Rmt			20.00	10660.00

ELECTRICAL WORK

1		Providing & laying of 4 core x 16 sqmm Al armoured cable alongwith 2 nos 8 SWG G I wire from main electrical panel to gate panel in ground including excavation of cable trench, Laying of cable, bricks protecting covering, refilling the trenches etc. at required complete work.	40.00 Rmt			226.98	9079.20
2		Providing & laying of 4 core x 10 sqmm Al unarmoured cable alongwith 2 Nos G I wire of 10 SWG from main gate panel to each light junction box in 40 mm PVC pipe including chase cutting on wall & providing of PVC pipe complete.	520.00 Rmt			202.68	105393.60
3		Providing & fixing of 200 mm x 250 mm and 100 mm deep weather proof hinged type M S Box having fitted with 4 way connector and 1 No. Fuse Kit kat for each light including connection at both end.	11.00 Nos			211.64	2328.04

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4	Providing and fixing of 25 mm dia PVC Conduit from each light to junction box complete with 2 Nos 4 Sqmm + 1 Nos 2.5 sqmm copper F R L S wire from light to junction box connection complete as required including chase cutting and mending good damager etc. connection & testing.	20.00 Rmt	98.32	1966.40
5	Providing & fixing 40 mm dia GI pipe for SPC fitting to junction box alongwith 2 Nos 4 Sqmm + 1 Nos 2.5 Sqmm Copper FRLS wire from fitting to Connection of junction box i/c connection & testing.	10.00 Rmt	170.23	1702.30
6	Providing & fixing of 4 way TPN DB complete with 32 Amp TPN MCB and 6 Nos 10 Amp SP MCB and 6 nos blanking plate etc. complete including connection	1.00 Set	1871.22	1871.22
7	Glanding & termination of cable with brass compression gland i/c connection etc.			
	(i) 16 Sqmm Cable	2.00 Set	15.64	31.28
	(ii) 10 sqmm Cable	15.00 Nos	15.64	234.60
8	P/F of SPC - 202/ 70 (I) L P F fitting with 1 x 70 W (I) SON lamp complete with cover etc. connection & testing.	3.00 Nos	3593.30	10779.90
9	P/F of flood light luminiar of Phillips make catalog No.MWF 330-SK/250 (Sym) complete with 1x 250W HPI-T i/c connection,testing & fixing	8.00 Nos	7207.43	57659.44

1430842.58

NBCC CHARGES 10% 143084.26

TOTAL 1573926.83

Sd/-

Project Manager,
NBCC Ltd.

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 2/1/4

Item No. 3.10 To consider evaluation report in respect of performance of NBCC

In National Institute of Technology (erstwhile Regional Engineering College), Kurukshetra PWD (B&R) was the only executing Agency for the Institute for Civil works. However, the BWC vide item No.21.3 decided to allot some works to NBCC on trial basis. Again, the BWC vide item No. 2.2, desired that the high power committee of the Institute as constituted by the Director for having quality control check on the on-going works, should also evaluate the performance of NBCC vis-à-vis PWD (B&R).

The above committee met on 20.4.05 and submitted the evaluation report as desired by BWC (report enclosed). In the report, the committee expressed satisfaction over the performance of NBCC and recommended to utilise the services of NBCC on regular basis.

The report is placed before the Building & Works committee for perusal and further direction please.

EVALUATION REPORT

**NATIONAL INSTITUTE OF TECHNOLOGY
(DEEMED UNIVERSITY)
KURUKSHETRA-136119**

No. EO/3674/237

Date: April 20, 2005

As desired by the Building & Works Committee vide item No. 2.2 (action taken on the minutes), the High Power Committee met on 20.4.2005 for the purpose of evaluation of performance of NBCC vis-à-vis PWD(B&R) pertaining to execution of deposit works of National Institute of Technology, Kurukshetra. The committee, on the basis of experience acquired during routine checks performed on deposit works executed by PWD (B&R) and NBCC, is of the opinion that the performance of NBCC is far superior than that of PWD(B&R), in respect of quality of construction, speed of construction and esthetics. As, such the committee recommends that the services of NBCC may be utilized on regular basis.

Sd/-
(D.K.Kaushik)
Member

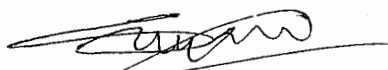
Sd/-
(Gulzar Singh)
Member

Sd/-
(Sathans)
Member

Sd/-
(R C Bhattacharjee)
Member

Sd/-
(V.K Sehgal)
Member

Sd/-
(V.K Arora)
Chairman



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Handwritten signature of Gulzar Singh
Handwritten signature of V.K. Sehgal
21/4

