

AGENDA FOR 4TH MEETING OF BUILDING & WORKS COMMITTEE

DECEMBER 12, 2005



**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

AGENDA FOR 4TH MEETING OF BUILDING & WORKS COMMITTEE

VANUE: **Board Room**
 National Institute of Technology
 Kurukshetra

DAY : **Monday**

DATE : **12-12-2005**

TIME : **12.00 Noon**

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

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CONSTITUTION OF BUILDING & WORKS COMMITTEE

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|-----|--|------------------|
| 1. | Dr. M.N. Bandyopadhyay
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,
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. | Sh. Amitabha Basu
Group General Manager, RBG Head (N)
NBCC Ltd., NBCC Place,
Bhishma Pitahma Marg, Pragati Vihar,
New Delhi-110003 | Member |
| 6. | Representative of PWD(B&R), Civil Wing,
Office of Engr-In-Chief, PWD(B&R),
Old Estate Bldg., Sector 19B
Chandigarh | Member |
| 7. | Dr. Krishna Gopal,
Dean (P&D)
NIT, Kurukshetra | Member |
| 8. | Prof. R K Bansal
Prof. I/C(Estate & Constn.)
NIT, Kurukshetra. | Invitee |
| 9. | Sh. Kapil Sharma
M/S S.K. Integrated Consultant,
280, Deepali Enclave, Pitam Pura
Delhi | Invitee |
| 10. | Sh. R P S Lohchhab
Registrar,
NIT, Kurukshetra. | Member-Secretary |

Item No. 4.1**To confirm the minutes of the 3rd meeting of the Building & Works Committee held on 26.4.2005**

The minutes of 3rd meeting were circulated amongst the members vide No. EO/3674/2559 dated April 28/29, 2005. No comments were received from any member. The minutes may, therefore, be confirmed.

Item No. 4.2**To report the action taken on the minutes of the 3rd meeting of the Building & Works Committee (BWC) held on 26.4.2005**

Item No.	Subject	Decision taken	Action taken
3.1	To consider the minutes of the 2 nd meeting of the BWC held on 27.8.2004.	Minutes confirmed	No action is required.
3.2	To report the action taken on the minutes of the 2 nd meeting of the BWC held on 27.8.2004.	<p>The Committee noted the action taken on various decision taken by BWC.</p> <p>Item (14.3 & 15.2). The Chief Engineer, PWD (B&R) was requested to expedite the installation of separate tube well for PWD Colony.</p> <p>Item (19.3) The BWC approved the RCE amounting to Rs. 167.62 lacs for Const. of 6 nos. Lecture Theatres.</p> <p>Item (19.4) The BWC approved the RCE amounting to Rs. 221.80 lacs for Constr. 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 Const. of conference</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>Const. of 6 nos. Lecture Theatres is completed and these are in use. Link corridors are also completed & taken over. A separate item no. 4.4 is attached to utilize the balance amount for safety guard of lecture theatres.</p> <p>Funds awaited</p> <p>Work completed and taken over. A separate item no. 4.5 is made to utilize the balance amount for PCC approach path and toilets etc. to</p>

	<p>hall-cum-retiring/ refreshment room for day scholar in the Institute.</p> <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 Employccs.</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 &2.33) The BWC approved the RRCE amounting to Rs.16.86 lacs for carryingout Renovation /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>facilitate the students from hostel and institutional side.</p> <p>Funds awaited.</p> <p>Funds awaited. A separate item no. 4.3 is attached.</p> <p>Funds awaited.</p> <p>Funds awaited.</p> <p>Funds awaited.</p> <p>Rs. 5.00 laces was released in 2003-04. Work is under progress. Balance funds are awaited.</p> <p>Work completed and taken over and a separate item for revision of cost is being put up vide item no. 4.6 to clear the pending liabilities.</p>
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		<p>Item (20.4) The BWC approved the RCE amounting to Rs.32.53 lacs for the Const. of 32 Nos. garages in various residences in the campus.</p>	Rs. 20.00 lacs released during financial year 2004-05 & 2005-06. Work is under progress.
		<p>Item (17.16, 20.12 & 1.9) The BWC approved the RRCE amounting to Rs. 64.15 lacs for Const. of Community Centre in Institute.</p>	Funds awaited.
		<p>Item (20.13) The BWC approved for auctioning the existing Gas Plant and to convert it into Canteen/any other purposes.</p>	BOG approved this item. Auction of existing Gas Plant is to be carried out.
		<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>	Funds awaited.
		<p>Item (1.6& 2.14) The BWC approved the RRCE amounting to Rs.111.24 lacs for the Const. of External Boundary Wall of the NIT Kurukshetra.</p>	Work is under progress. A separate item vide item no. 4.7 is being put up with RRCE amounting to Rs.133.65 lac.
		<p>Item No. (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.</p>	Rs. 3.00 lacs were released during 2002-2003, Rs. 2.732 lacs during the year 2003-2004 , Rs. 5.00 lacs during 2004-2005 and Rs. 5.00 lacs during the year 2005-2006. Work completed and taken over.

	<p>Item No. (2.19) The BWC approved the RRCE amounting to Rs.78.00 lacs for const. of new equipment shop in workshop.</p> <p>Item No. (2.20) The BWC approved the RCE amounting to Rs. 97.00 lacs for Prov. of Air-conditioning in Institute Library.</p> <p>Item No. (2.21) The BWC approved the RCE amounting to Rs.18.67 lacs for Prov. of High Mast Security Lights & boundary in the Community Park out of Plan grant and Rs.18.67 lacs out of Institute Dev. Fund.</p> <p>Item No. (2.23) The BWC approved the RCE amounting to Rs.5.00 lacs for Prov. of Green Room etc. in Open Air Theatre.</p> <p>Item No. (2.24) The BWC approved the RCE amounting to Rs.11.00 lacs for Const. of 2 nos. CAD labs. in Mech. Engg. Deptt.</p> <p>Item No. (2.25) The BWC approved the RCE amounting to Rs.121.80 lacs for Const. of Adm. Block in lieu of class rooms.</p> <p>Item No. (2.35) The BWC approved the</p>	<p>Rs. 50.00 lacs were released during 2004-05 and Rs. 28.00 lacs during 2005-06. A separate item vide item no. 4.8 is being put up with RRCE amounting to Rs.150.37 lac.</p> <p>Funds awaited.</p> <p>An amount of Rs.15.00 lacs was released during 2004-05 and Rs. 3.67 lacs during 2005-06. Work is nearly under completion.</p> <p>Tenders are initiated.</p> <p>Vide item No.17.7 and 2.4 approved by the BWC, the construction work of CAD/CAM lab. in Mech. Engg. Deptt. has been completed and taken over.</p> <p>Funds awaited.</p> <p>Rs. 22.52 lac has been released during 2005-06 by</p>
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		<p>RCE amounting to Rs.40.15 lacs for Renovation of Lecture Theatre, Labs. etc.</p> <p>Item No. (2.36) The BWC approved the RCE amounting to Rs.30.25 lac for replacement of water supply & public health disposal pump and distribution network.</p> <p>Item No. (2.37) The BWC approved the RCE amounting to Rs.20.03 lac for renovation of electrical fittings in workshop.</p> <p>Item No. (2.38) The BWC approved the RCE amounting to Rs.15.38 lac for repair/modification of Instructional building.</p> <p>Item No. (2.40) The BWC approved the RCE amounting to Rs. 8.00 lac for Provision of geysers and exhaust fans in hostel toilets.</p> <p>Item No. (2.41) The BWC approved the RCE amounting to Rs.302.00 lac for installation of HT/LT sub station.</p> <p>Item No. (2.42) The BWC approved the RCE amounting to Rs.154.00 lac for installation of DG sets.</p>	<p>the GOI to renovate 6 nos. Lecture Hall under TEQIP. Work is in progress.</p> <p>Rs. 21.94 lac has been released by GOI under TEQIP. Work is in progress.</p> <p>The GOI has released an amount of Rs. 19.67 lac. under TEQIP. Work is in progress.</p> <p>A separate item vide item No. 4.10 is being put up with RRCE amounting to Rs. 22.01 lac.</p> <p>Rs. 8.00 lac has been released by MHRD during the year 2005-06.</p> <p>Rs. 75.00 lac has been released by MHRD during the year 2005-06.</p> <p>Rs. 25.00 lac has been released by MHRD during the year 2005-06.</p>
3.3	To consider & approve the final expenditure for Const. of 7 nos.	Item No. (17.7, 19.7 2.9 & 3.3) The BWC approved the RRCE	Funds received to clear the liabilities during financial year 2005-06 and work is

	new labs. in Mech. Engg. Deptt. and 2 nos. labs. in Comp. & EcE Deptt. (Computer Engg. Block)	amounting to Rs. 149.91 lacs for the const. of 7 nos. new labs in Mech. Engg. Deptt. and 2 nos. Comp. & EcE Deptt. during 2005-2006 to clear the liabilities.	completed and taken over.
3.4	To consider and approve the final cost of Const. of additional 200 seater Girls' Hostel.	Item No. (21.4, 1.3, 2.12 & 3.4) The BWC approved the RRCE amounting to Rs. 443.31 lacs for Construction of Additional (200 seater) New Girls Hostel in National Institute of technology, Kurukshetra.	Funds released amounting to Rs. 68.05 during 2005-06. Work is nearly completed.
3.5	To consider and approve the final expenditure for Special repair/renovation of Plastering, Flooring & PH fittings in Messes & Toilets in Hostel No. 1 to 5.	Item No. (21.9, 2.15 & 3.5) The BWC approved the RRCE amounting to Rs. 23.80 lacs for Special repair/renovation of plastering, flooring & PH fittings in Messes & Toilets in Hostel No. 1 to 5 to clear the pending liabilities.	Funds received to clear the liabilities during financial year 2005-06. Work completed and taken over.
3.6	To consider and approve the final expenditure for the Prov. of (a) Fixing of welded mesh around Volley ball court, and (b) Chain link fencing etc. around tennis court in Sports Ground.	The BWC approved the RCE amounting to (a) Rs. 8.71 lacs for Fixing of welded mesh around Volley ball court, and (b) 9.094 for Prov. of Chain Link fencing around Tennis Court in sports ground to clear the pending liabilities.	Funds received to clear the liabilities during financial year 2005-06. Work is completed and taken over.
3.7	To consider & approve the final settlement of liabilities against (a) Extension of Health Centre Building and (b) Const. of P.G. Hostel	The BWC approved the RRCE amounting to (a) Rs. 12.75 lacs for Extn. of Health Centre Building and (b) Rs. 177.8413 lacs for Const. of P.G. Hostel.	Funds transferred to concerned departments.

3.8	To consider and approve the estimate for Special repair, renovation and miscellaneous works in the Institute.	The BWC approved a sum of Rs. 70.00 lacs for Special repair, renovation and miscellaneous works in the Institute for the year 2005-06 including Rs. 10.00 lacs for the replacement of furniture in Ist year hostel.	Funds amounting to Rs.49.00 lacs released during 2005-06. Work is under progress.
3.9	To consider and approve the RCE for Construction of External boundary wall for around hostel no. 3	The BWC approved the RCE amounting to Rs.15.74 lacs for the Construction of External boundary wall for hostel no. 3	Funds released during 2005-06. Work is under progress.

Item No. 4.3

To consider RCE for provision of glazed tiles in Hostels, Guest house, Residences (Toilets and Kitchens) and Instructional buildings (Toilets).

A RCE amounting to Rs. 125.85 lacs for provision of glazed tiles in Hostels, Guest House and Residences (Toilets and Kitchens) and Instructional Building (Toilets) was approved in 19th meeting of B.W.C held on Oct. 5, 2000 vide Item No. 19.11. The funds are still awaited. The works included:

- (i) 5 Nos. Boys Hostels.
- (ii) Guest house.
- (iii) Instructional Buildings.
- (iv) Residences.

The works for provision of glazed tiles in 5 No. boys' hostels was completed and taken over under the work "Special repair/renovation of Plastering, Flooring and PH fitting in messes & Toilets in Hostel No. 1 to 5" approved by the B.W.C vide item No. 21.9, 2.15 and 3.5.

The works for provision of glazed tiles in Instructional Buildings was completed and taken over under the work "Renovation of toilets in the Instructional Buildings i/c Replacement of PH fittings in NIT Kurukshetra" approved by B.W.C vide item No. 1.7.

The work for provision of glazed tiles in Guest house and Residences (Toilets and Kitchens) is still to be taken up and funds are awaited. A modified RCE amounting to Rs. 86.84 lac has been prepared.

It is, therefore, requested that B.W.C may consider and approve RCE amounting to Rs. 86.84 lac for the glazed tiles in Guest House and Residences (Toilets and Kitchens).

ROUGH COST ESTIMATE FOR PROVISION OF GLAZED TILES IN GUEST HOUSE & RESIDENCES (TOILETS & KITCHEN) AT NIT, KURUKSHETRA

Sr. No.	Description	Qty	Unit	Rate	Amount
1	Providing & fixing 1st quality Ceramic Glazed Tiles conforming to IS: 13753 of minimum thickness 5 mm of approved make like NITCO, ORIENT, SOMANY KAJARIA or equivalent make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer- in - Charge in skirting, risers of steps and dados over 12 mm thick bed of Cement Mortar 1:3 (1 Cement : 3 Coarse Sand) and jointing with grey cement slurry @ 3.3 KG per sqm including poiting in white cement mixed with pigment of matching shade complete.				
	FOR GUEST HOUSE	170.00	Sqm	615.00	104550.00
	FOR RESIDENCES (TOILETS & KITCHEN)	12523.00	Sqm	615.00	7701645.00
					7806195.00
	Add 3% Contingency				234185.85
					8040380.85
	Add 8% NBCC Charges				643230.47
	Total				8683611.32
			Say Rs. 86.84 lacs		

Item No. 4.4

**To consider and approve the construction of 6 Nos.
Lecture Theatres.**

Six nos. lecture theatres were constructed for UG & PG students in the Institute with all modern amenities and the work was approved by the BWC amounting to Rs. 167.05 lacs vide item no.19.3 in its meeting held on 5.10.2000. The construction of 6 nos. lecture theatres alongwith corridors was completed and taken over by the Institute which are in use. It is proposed to provide two collapsible gates and boundary wall around the lecture theatre areas. The total expenditure is Rs. 126.81 lacs whereas the MHRD released a sum of Rs. 155.00 lacs out of the estimated cost of Rs. 167.05 lacs. There is a balance of Rs. 28.19 lacs out of the grant received till to date. If the above facilities are provided, the estimated cost comes out to Rs. 10.26 lacs which can be met out of the available grant.

Therefore, it is requested that BWC may consider and approve the proposal.

Rough Cost Estimate For Construction of Wall around Lecture Theatre & Computer Lab Building at NIT Kurukshetra

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
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	202.98	Cum	93.55	18988.78
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)	33.83	Cum	1404.70	47521.00
3	6.1.14	Brick work with F P S bricks of class designation 75 in foundation and plinth in				
		Cement mortar 1:6 (1 Cement : 6 Coarse Sand)	250.53	Cum	1384.50	346858.79
4	4.25	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)	74.37	Sqm	103.80	7719.61
5	4.27	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 Kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in Kerosene oil.	74.37	Sqm	29.25	2175.32
6	6.3	Extra for brick work in super structure above plinth level upto floor V level.	142.12	Cum	206.40	29333.57
7	13.12.4	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 Cement : 6 coarse sand)	604.43	Sqm	54.15	32729.88
8	13.63.2	Pointing on tile brick work with cement mortar 1:3 (1 Cement : 3 Fine sand)				
		Ruled Pointing	604.43	Sqm	43.55	26322.93

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
9	10.32.2	Steel work welded in built up section/ framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				
		In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	5456.73	Kg	29.15	159063.68
10	13.93	Painting & synthetic enamel paint of approved brand and manufacture to give an even shade				
		Two or more coat on new work	126.59	Sqm	24.25	3069.81
11	4.16.1	Providing & fixing upto floor five level precast cement concrete string or lacing courses, copings, bad plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 Cement: 3 Coarse Sand) cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface complete.				
		1:2:4 (1 Cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	3.72	Cum	2837.30	10554.76
12	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)	1255.55	Sqm	23.10	29003.21
						713341.32
		Add 27% on DSR - 2002				192602.16
					A	905943.48
13	NS	Providing & fixing Glass Strips	278.70		20.00	5574.00
14	NS	Extra for 2 Nos. Barbed wire.	278.70		6.66	1856.14
					B	7430.14
					A + B	913373.62
		VAT 4%				36534.94
						949908.56
		Add 8% NBCC Charges				75992.69
		Total				1025901.25

Item No. 4.5 To consider and approve the RRCE for security of Conference Hall cum-Refreshment Room for day scholars and PCC approach path from the hostel and Institutional side.

A Conference Hall-cum-Refreshment Room was recently constructed in the Institute to organise the conferences with all modern audio visual amenities and a refreshment hall for day scholars. The above work was approved by BWC in its 19th meeting held on 5th Oct., 2000 vide item no. 19.5 & 19.6 amounting to Rs.135.45 lacs. Whole amount was released by MHRD, Govt. of India during the financial year 2001-02 and 2002-03 and subsequently estimate amounting to Rs. 158.80 lacs by the BWC vide item no. 2.6 in its meeting held on 27th Aug., 2004. The work was completed and taken over. The lower portion of the conference hall is being used for providing refreshment to day scholars. Now, it is proposed that a 10 ft./7 ft. wide PCC path and two nos. toilets to facilitate the students from the hostel & Institutional side. For provision of above facilities, an estimate amounting to Rs. 3.23 lac is enclosed.

It is, therefore, requested that BWC may consider and approve RRCE of PCC approach path and 2 nos. toilets from the hostel side. This amount will be met out of the saving of the construction of conference hall-cum-refreshment room.

ROUGH COST ESTIMATE FOR CONSTRUCTION OF 2 NOS TOILETS & MISC. WORKS AT CONFERENCE HAL AT NIT KURUKSHETRA

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
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	20.00	Cum	93.55	1871.00
2	6.1	Brick work with F P S bricks of class designation 75 in foundation & plinth in:				
	6.1.10	Cement Mortar 1:6 (1 Cement : 6 Fine Sand)	7.50	Cum	1338.75	10040.63
3	6.3	Extra for brick work in superstructure above plinth level upto floor V level	15.50	Cum	206.40	3199.20
4	13.12.4	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 Cement : 6 coarse sand)	90.00	Sqm	54.15	4873.50
5	4.5.8	Providing & laying in positlon 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)	2.50	Cum	1404.70	3511.75
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 agggregate 20 mm nominal size)	2.00	Cum	2120.65	4241.30
7	5.14	Centering & shuttering including stracking propping etc and removal of form for :				
	5.14.5	Linteal Beams	12.00	Sqm	87.95	1055.40

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
8	16.1	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 Cement : 3 Coarse Sand : 6 Graded stone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	20.00	Sqm	131.20	2624.00
9	10.15	Providing & fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of surface as directed by engineer- in - charge	48.00	Meter	166.35	7984.80
10	9.25.2	Providing & fixing ISI marked flush door shutters non decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter				
		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.00	Sqm	835.90	3343.60
11	13.70.1	White washing with lime to give an even shade New work (Three or more coat)	90.00	Sqm	4.65	418.50
12	11.4.3	Cement Concrete flooring 1:2:4 finished with a floating coat of neat cement I/c cement slurry, but excluding the cost of nosing & step etc. complete.				
		50 mm thick with 20 mm nominal size stone aggregate	9.75	Sqm	133.60	1302.60
13	14.5.2	Renewing glass panes, with putty and nails wherever necessary				
		Glass panes weighing 10.00 Kg/Sqm	1.00	Sqm	329.00	329.00

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
14	9.82.1	P & F M S grills of required pattern in frames of windows etc. with M S flats, square or round bars etc. all complete				
		Fixed to steel window by welding	50.00	Kg	34.00	1700.00
15	9.218.1	Providing & fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts & screws etc complete				
		300 x 16 mm	2.00	Each	90.70	181.40
16	9.219	Providing & fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete.				
	9.219.3	200 x 10 mm	4.00	Each	35.10	140.40
	9.219.5	100 x 10 mm	8.00	Each	22.25	178.00
17	9.222	P & F ISI marked oxidised M S handle conforming to IS : 4992 with necessary screws etc. complete				
	9.222.1	125 mm	4.00	Each	33.05	132.20
18	9.224	Providing & fixing aluminium casement stays ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc. complete	2.00	Each	37.95	75.90
19	2.28	Supplying & filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	3.00	Cum	213.30	639.90
20	13.81.1	Applying priming coat with ready mixed pink or grey primer of approve brand and manufacture on wood work (hard & soft wood)	4.00	Sqm	11.75	47.00
21	11.20	P & F glass strips in joints of terrazo/ cement concret floor				
		40 mm wide & 4 mm thick	25.00	Meter	12.90	322.50

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
22	5.29	Reinforcement for R C C work I/c straining, cutting, bending, placing in position and binding all complete.				
	5.29.1	Mild steel & medium tensile steel bars	500.00	Kg	21.45	10725.00
23	19.48.1.2	Providing & fixing soil, waste and vent pipes				
		Centrifugally cast (spun) iron S & S pipe	70.00	Meter	361.45	25301.50
24	19.72.1	Providing & fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls & floors:				
		100 mm inlet and 100 mm outlet	5.00	Each	359.80	1799.00
25	19.51.1.2	Providing & fixing plain bend of required degree				
		Centrifugally cast (spun) iron S & S pipe	3.00	Each	136.25	408.75
26	20.2.2.1	Concealed pipe including painting with anti-corrosive bitumastic paint, cutting chases and making good the wall				
		15 mm dia nominal bore	60.00	Meter	88.35	5301.00
27	20.3.3	Providing & fixing G I Pipes complete with G I fittings including trenching and refilling etc (External work)				
		25 mm dia nominal bore	40.00	Meter	88.80	3552.00
28	19.7.4	Providing & fixing wash basin with C I /M S brackets, 15mm C P brass pillar taps, Kingston/ GEM/ Techno/ Parko, 32 mm C P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
		Flat back wash basin size 550 x 400 mm with single 15 mm C P brass pillar tap	2.00	Each	770.10	1540.20
29	19.101.2	Providing and fixing PTMT Bottle trap for wash basin and sink (paryag or equilant)				
		Bottle trap 38 mm single piece moulded with height of 270 mm , effective length of tail pipe 265 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighting not less than 270 gms	2.00	Each	308.80	617.60

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
30	19.1.2	Providing and fixing water closet squatting pan (indian type W C pan) with 100 mm sand cast iron P or S trap, 10 litre low level white PVC flushing cistren with manually controlled device (handle lever) conforming to IS : 7231, Parryware/Hindware/seabird/Orient (Carol) with all fittings and fixtures complete including cutting and making good the walls and floors wherever	2.00	Each	1767.45	3534.90
31	19.20A.1	Providing & fixing PVC low level flushing cistren with manually controlled device (handle lever) conforming to IS : 7231, Parryware/Hindware/Seabird/Orient (Carol) with all fittings and fixtures complete.				
		10 Litre Capacity - White	2.00	Each	585.70	1171.40
32	19.5.2	Providing & fixing white vitreous china flat back half stall urinal of 580 x 380 x 350 mm with white PVC automatic flushing cistren, Parryware/Hindware/Seabird/Orient (Carol) with fittings, standard size CP brass flush pipe, spreaders with unions and clamps (all in CP brass) with waste fitting as per IS 2556, CI trap with outlet grating and other coupling in CP brass including painting of fitting and cutting and making good the walls and floors wherever required:				
		Range of two half stall urinals with 5 litre PVC automatic flushing cistren	2.00	Each	4162.40	8324.80
33	19.34 A 1.2	Painting and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete				
		Semi rigid pipe 40 mm dia	2.00	Each	31.05	62.10
34	20.94	Providing & fixing C P brass angle valve far basin mixer and gyser points of approved quality conforming to IS : 8931				
		15 mm nominal bore	5.00	Each	185.80	929.00
35	20.13.1.1	Providing & fixing uplasticised PVC connection pipe with brass unions				
		30 cm length - 15 mm nominal bore	5.00	Each	24.20	121.00

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
36	20.90	Providing & fixing C P brass bib cock of approved quality conforming to IS 8931				
		15 mm nominal bore	2.00	Each	163.75	327.50
37	19.104.2	Providing & fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (paryag or equivalent)				
		600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	2.00	Each	244.55	489.10
38	20.9.3	Providing & fixing gun metal valve with C I wheel of approved quality (Screwed end)				
		25 mm nominal bore	2.00	Each	168.75	337.50
39	19.49	Providing & fixing M S holder bat clamps of approved design to Sand cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10 x 10 x 10 CM of 1:2:4 mix (1 Cement: 2 Coarse Sand: 4 graded stone aggregate 20 mm nominal size) including cost of cutting holes and making good the walls etc.				
		For 100 mm dia pipe	6.00	Each	44.35	266.10
40	19.68.1.	Providing & fixing collar				
		Centrifugally cast spun iron S & S - 100 mm	3.00	Each	112.90	338.70
41	2.1.1	Earth Work in Surface Excavation not exceeding 30 Cm in depth but exceeding 1.5 M in width as well as 10 Sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5m, disposed soil to be leveled and neatly dressed:				
		All kinds of soil	184.10	Sqm	13.63	2509.28
42	2.28	Supply & filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete	18.41	Cum	213.30	3926.85
43	4.5.8	Providing & laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level.				

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
		1:4:8 (1 Cement: 4 Coarse sand: 8 Graded Stone aggregate 40 mm nominal size)	27.62	Cum	1404.70	38797.81
44	17.61	Cement concrete 1:2:4 (1 Cement : 2 Coarse Sand: 4 Graded Stone aggregate 20 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete	18.41	Cum	1848.00	34021.68
45	17.65.1	Providing & laying in position bitumen hot sealing compound for expansion joints etc.		Per Cm depth		
		Using grade "A" sealing compound	35.00	Width p	0.75	26.25
						192641.61
		Add 27% on DSR - 2002				52013.23
					TOTAL - A	244654.84
1	NS	Providing & fixing urinal fitting with all fitting complete	1.00	Set	450.00	450.00
2	NS	Providing & fixing urinal Partition complete	1.00	Nos	450.00	450.00
3	NS	Providing & fixing looking mirror	2.00	Nos	500.00	1000.00
4	NS	Providing & fixing Urinal channel complete	6.00	Nos	300.00	1800.00
5	NS	Providing & fixing CP Jali complete	6.00	Nos	15.00	90.00
6	NS	Providing & fixing Soap Dish complete	2.00	Nos	250.00	500.00
7	NS	Supply & Fixing PVC Tank	1.00	Nos	4000.00	4000.00
8	NS	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.	3.00	Nos	211.64	634.92
9	NS	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 damamger etc. connection & testing.	50.00	Rmt	98.32	4916.00

Sr. No.	DSR Item	Description	Qty	Unit	Rate	Amount
10	NS	Providing & fixing 40 mm dia G I pipe for S P C fitting to junction box alongwith 2 Nos 4 Sqmm + 1 Nos 2.5 Sqmm Copper F R L S wire from fitting to Connection of junction box including connection & testing.	20.00	Rmt	170.23	3404.60
11	NS	Providing & fixing of 4 way SPN DB complete with 16 Amp SPN MCB and 2 Nos 10 Amp SP MCB complete including connection	1.00	Set	1300.00	1300.00
12	NS	Light/ Fan point wiring with 1.5 sqmm PVC insulated FRLS wire in M S conduit including Box, Switch etc. as required				0.00
		Short Point	2.00	Nos	198.00	396.00
		Medium Point	4.00	Nos	272.00	1088.00
13	NS	Supply & installation of Exhaust fan of 450 mm sweep complete	2.00	Nos	1200.00	2400.00
14	NS	Providing & fixing of 1 No 5 amp 3 pin socket of outlet with switch on switch board	3.00	Nos	25.00	75.00
15	NS	Providing & fixing of battan holder fitting on wall.	3.00	Nos	12.00	36.00
16	NS	Providing & fixing Kerb Stone in precast CC (1:2:4) as per design all complete.				
		Size of Kerb Stone (250 x 100 x 600mm)	126.00	Rmt	250.00	31500.00
					TOTAL - B	54040.52
					A + B	298695.36
		Add 8% NBCC Charges				23895.63
		Total				322590.99
			Say Rs. 3.23 lac			

Item No. 4.6

To consider and approve the final settlement of liabilities against the work for PCC approach path to the residences.

The following work was carried out by M/S National Building Construction Corporation Ltd. Now, while submitting utilization certificate, the NBCC communicated a little over spending against the work as shown below:

BWC Item	Name of work	Approved estimated cost	Amount transferred to NBCC	Exp. Incurred by NBCC	Balance requirement
				Rupees in lac	
	PCC approach path to residences	24.28	24.28	25.02	0.74

It is, therefore, requested that the BWC may consider and approve the clearing of final liabilities of Rs. 0.74 lac for the above work. The GOI will be requested to release the said amount of Rs. 0.74 lac.

Item No. 4.7 To consider and approve the RRCE for Construction of External Boundary Wall of the National Institute of Technology, Kurukshetra.

The construction of external boundary wall in the National Institute of Technology, Kurukshetra was approved by the Building & Works Committee in its meeting dated 8.11.2002 vide item no. 1.6 amounting to Rs. 59.92 lacs. But due to recommendations of the High Power Committee, the design for the construction of external boundary was changed to RCC wall 7 feet in height instead of 9 inch thick brick wall of height 5 ft. 11¹/₂ inches. The estimated amount amounting to Rs. 111.21 lacs was revised vide item no. 2.14 by the BWC in its meeting held on August 27, 2004. The construction work in RCC was carried out as per the revised design. During construction, it was found that a part of the boundary wall crosses the village pond and along the periphery of oxidation pond for which the design of RCC wall had to be changed from 7 ft. height to 11 ft. height to retain the earth work of the oxidation pond and also due to difference in level at the pond site. Also during excavation of boundary wall near oxidation ponds, overflow CI pipe line was found. It needs shifting from foundation of boundary. The estimated cost of the external boundary including above works gets revised to Rs. 133.65 lacs.

Therefore, it is requested that the Building & Works Committee may consider and approve the revised estimated cost of the external boundary wall.

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

SR. NO.	HSR ITEM NO.	DESCRIPTION	UNIT	QTY	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 30 meters.	Cum	6300.00	38.78	244314.00
2	10.39	Cement Concrete 1:4:8 with stone aggregate 40mm nominal size in foundation & plinth.	Cum	512.00	1088.37	557245.44
3	10.90	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 level)	Cum	860.00	1855.17	1595446.20
4	10.87	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 all respects	Cum	1550.00	3780.00	5859000.00
5	10.95 (a)	Extra over item nos. 10.79 to 10.94, if 1:1.5:3 mix is used, instead of 1:2:4	Cum	2360.00	234.63	553726.80
6	18.22	Cold twisted deformed (ribbed/tor steel) bars for R C C works where not included in the complete rate of R C C including bending, binding and placing in position complete.	Qtl	1300.00	2109.22	2741979.50
7	6.13 (a)	Earth filling under floors 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	4550.00	10.98	49940.80

8	18.12	Wrought iron & mild steel (using angles, flats square bars, tes & channels) ladders, grills, grating 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	18.00	2288.77	41197.86
9	N S	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	21308.00	21.29	453594.05
10	N S	Providing & fixing Glass Pieces on top of Boundary Wall	Rmt	3600.00	21.42	77112.00

	12374491.00
NBCC CHARGE 8%	989959.28
TOTAL	13364450.28

Say Rs. 133.65 lacs

Item No. 4.8

To consider and approve the RRCE for construction of New Equipment Shop in Workshop at NIT Kurukshetra.

The Building & Works Committee approved the RCE for construction of New Equipment Shop in Workshop vide item no. 2.19 amounting to Rs.78.00 lac in its 2nd meeting held on August 27, 2004. A sum of Rs. 78.00 lac has already been released by GOI. But due to some changes in design of the building, considering the actual requirements, a RRCE amounting to Rs.150.37 lac has been prepared.

It is, therefore, requested that BWC may consider and approve the RRCE amounting to Rs. 150.37 lac.

REVISED ESTIMATE FOR CONSTRUCTION OF NEW EQUIPMENT SHOP AT NIT KURUKSHETRA

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
1	EARTH WORK				
2.6.1	Earth work in surface excavation over areas exceeding 30 cm in depth 1.5m in width as well as 10 Sq.m. on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, surplus disposed earth to be levelled and neatly dressed.				
a)	All kinds of soil	1723.35	CUM	105.80	182330.43
2.10	Excavating trenches of required width for pipes, cable etc. including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed with in a lead of 50 m.				
2.10.1.1	Pipes cables etc not exceeding 80mm dia	153.35	Meter	67.16	10298.99
2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m.	865.73	CUM	34.96	30265.84
2.28	Supply & filling in plinth with jamuna sand under floors including, watering ramming consolidating and dressing complete.	252.93	CUM	244.72	61897.64
2.35.1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ lindane emulsifiable concentrte of 20%	102.00	Liter	152.72	15577.44
4.5.9	Providing & laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level.				
	1:4:8 (1cement : 4 fine sand : 8 graded stone aggregate 40mm nominal size).	93.09	Cum	1522.60	141737.22
4.24	Providing & laying Damp proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2coarse sand: 4 graded stone aggregate 12.5mm nominal size).	39.45	Sqm	97.52	3847.39
4.27	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in korosene oil.	39.45	Sqm	34.04	1342.96

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
5.1.2	Providing & laying Reinforcement cement concrete in raft, footing, bases of columns etc. and mass concrete excluding the cost of centering, shuttering and reinforcement all work upto plinth level.				
	1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	781.00	Cum	2433.40	1900485.40
5.2.2	Providing & laying Reinforcement cement concrete in wall (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement.				
	1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	83.78	Cum	2703.88	226531.07
5.3	Reinforcement Cement Concrete work in beams, suspended floor, roofs having slopes upto 15 degree, 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 (1cement:2coarse sand:4graded stone aggregate 20mm nominal size).	290.05	Cum	2438.00	707151.99
	Extra for 1:1.5:3 instade of 1:2:4	290.05	Cum	230.00	66711.50
5.13	Reinforcement Cement Concrete work in vertical & horizontal flns Individually or forming box louvers, fascia and eaves boards upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1cement:1.5coarse sand:3graded stone aggregate 20mm nominal size).	9.49	Cum	2584.28	24514.20
5.14	Centering and shuttering including strutting, propping etc. and removal of form for :				
5.14.1	Foundations, footings, bases of columns etc., mass concrete, and precast shelves.	789.68	Sqm	70.84	55941.13
5.14.3	Suspended floors, roofs, landing and balconies.	993.06	Sqm	127.88	126992.52
5.14.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	736.52	Sqm	101.20	74535.89
5.14.6	Columns, pillars, Piers, Abutments posts and struts.	999.14	Sqm	156.40	156265.03
5.14.7	Stairs, (excluding landings) except spiral - staircases	26.78	Sqm	122.36	3276.80
5.14.4	Shelves, Platforms, counters etc	35.64	Sqm	127.88	4557.64

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
5.16	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering at all levels over a height of 3.5 m for every additional height of 1 metre or part thereof (plan area to be measured)				
5.16.1	Suspended floors, roofs, landing, beams and balconies (plan area to be measured).	993.06	Sqm	52.44	52076.07
5.29	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position and binding all complete.				
5.29.3 or 5.29.7	TMT bars. Or Cold Twisted bars.	101000.00	KG	34.96	3530960.00
5.36	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints complete as directed.	141.02	per cm depth per cm width per 100m	286.12	40348.64
5.37	Providing and fixing sheet covering over expansion joints with cadmium plated steel screws as per design to match the colour / shade of wall treatment.				
5.37.2	Aluminium fluted strips 3.15mm thick				
5.37.2.1	150mm WIDE	70.00	meter	193.12	13518.40
5.38	Add or deduct for plaster drip course/ grooves in plaster surface or moulding to RCC projections.	12138.92	meter	10.12	122845.88
6.1.14	Brick work with FPS bricks of class designation 75 in foundation and plinth in:				
6.1.2	Cement mortar 1:6 (1cement: 6coarse sand).	722.49	Cum	1591.60	1149915.08
6.3	Extra for brick work in super-structure above plinth level upto floor V level.	646.15	Cum	237.36	153370.81
6.18	Half brick masonry with bricks of class designation 75 on foundation and plinth in:				
6.18.4	Cement mortar 1:4 (1cement: 4coarse sand).	571.52	sqm	201.48	115149.85
6.19	Extra for half brick masonry in super-structure, above plinth level upto floor V level .	519.59	sqm	25.76	13384.65
6.20.(A)	Extra for providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of half brick masonry.(with FPS Bricks).	519.59	sqm	24.84	12906.63
9.25.	Providing & fixing 1st class hard wood and well matched commercial 3 ply veneering with vertical garins or cross bands and face veneers on both faces of shutters:				

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
9.25.3	35mm thick including ISI marked stainless steel butt hinges with necessary screws.	73.75	sqm	908.96	67036.48
9.37	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	73.75	sqm	64.60	4764.25
9.82	Providing & fixing M S grills of required pattern in frames of windows etc. with M S flats, square or round bars etc. all completed.				
9.82.1	Fixed to steel windows by welding.	1596.26	KG	46.92	74896.52
9.119.2	Providing and fixing ISI marked oxidised M S tower bolt black finish, (Barrel Type) with necessary screws etc.compleated.				
	200x10mm	16.00	Each	26.68	426.88
9.122.1	Providing and fixing ISI marked oxidised M S handles conforming to IS: 4992 with necessary screws etc.compleated.				
	125mm	146.00	Each	8.28	1208.88
9.127.2	Providing and fixing ISI marked oxidised M S hasp & staple (safety type) conforming to IS: 363 with necessary screws etc.compleated.				
	115mm	146.00	Each	11.04	1611.84
9.127.A.3	Providing and fixing ISI marked oxidised M S casement stays (straigh peg type) with necessary screws etc.compleated.				
	200mm weighing not less than 120gms.	146.00	Each	14.72	2149.12
9.222	Providing and fixing aluminium handles colour anodised (anodic coating not less than grade AC10 as per IS: 1868) to required colour or shade with necessary screws etc. complete.				
9.222.1	125 mm.	146.00	Each	37.72	5507.12
9.219	Providing and fixing aluminium tower bolt ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc.compleated.				
9.219.1	300 x 10 mm	16.00	Each	52.44	839.04
9.219.2	250 x 10 mm	16.00	Each	46.00	736.00
9.219.3	200x10mm	16.00	Each	40.48	647.68
9.218	Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary nuts, screws etc. complete :				
9.218.1	300 x 16 mm	16.00	Each	103.96	1663.36
9.218.2	250 x 16 mm	16.00	Each	99.36	1589.76

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
9.223	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC10 as per IS: 1868) to required colour or shade with necessary screws etc. complete.				
9.223.2	Twin rubber stopper.	16.00	Each	53.36	853.76
10.5	Providing & fixing in position collapsible steel shutter with vertical channel 20x10x2mm and braced with top and bottom rail of T- iron 40x40x6mm with 40mm dia steel pulley completed with bolts, nuts, locking arrangement, stoppers, handles including applying a priming coat of approved steel primer.	12.50	Sqm	2220.88	27761.00
10.8	Supplying & fixing rolling shutters of approved make, made of required size MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade no.2 and MS top cover of required thickness for rolling shutters.				
10.8.1	80x1.25mm MS laths with 1.25mm thick top cover.	15.60	sqm	1227.28	19145.57
10.9	Providing & fixing ball bearing for rollin shutters.	2.00	Each	333.04	666.08
10.10.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
	Exceeding 10.00 sqm and upto 16.80 sqm in the area.	15.60	sqm	355.12	5539.87
10.13	Extra for providing and fixing steel beading of approved shape & section with screws instead of glazing clips & metal sash putty in steel doors, window, ventilators and composite units.	13.50	meter	16.56	223.56
10.15	Providing & Fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of surface as directed by engineer-in-charge.				
10.15.1	Profile A	571.23	meter	230.00	131381.75
10.15.3	Profile C	344.84	meter	128.80	44415.39

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
	Providing & fixing MS glazed openable shutters 30 mm thick to window (excluding cost of glazing) made out of MS box section of size 75 x 35 mm x 1.6 mm thick including M S hinges and screws etc complete	73.75	Sqm	828.00	61065.00
9.7	Extra for providing heavy sheet glass panes instead of ordinary glass in glazed doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured)				
9.7.2	13.75 Kg/ Sqm (5.5 mm thick) instead of 10 Kg per Sqm (4mm thick)	59.00	Sqm	115.92	6839.28
14.106	Providing & fixing to existing door frames 30 mm thick factory made Polyvinyl Chloride (PVC) door shutters made of styles and rails of a UPVC hollow section of size 60 x 30 mm and wall thickness 2 mm (+ -) 0.2 mm with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M S galvanized/ plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stain less steel screws. The styles of the shutter reinforced by inserting galvanized M S tube of size 25 x 20 mm and 1 mm (+ -) 0.1 mm wall thickness. The lock rail made up of H section a UPVC hollow section at size 100 x 30 mm and 2 mm (+ -) 0.2 mm wall thickness fixed to the shutter styles by means of plastic/ galvanized M S "U" cleats. The shutter frame filled with a UPVC multi chambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+ -) 0.1 mm wall thickness. the panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M S rod and fastened with nuts & washers, complete as per manufacture				
14.106.1	30 mm thick shutter	2.10	Sqm	1748.00	3670.80
10.33	Providing and Fixing hand rail by welding etc. to steel ladders railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.				
10.33.3	G I Pipes 40 mm nominal bore (Class B)	507.50	KG	51.52	26146.40
11.5	40mm thick red oxide flooring under layer of 30 mm thick cement concrete 1:2:4 (1Cement: 2Coarse Sand: 4Graded stone aggregate 12.5 mm nominal size) and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 Kg of red oxide of iron per 50 Kg of cement) 1:3 (1 Cement:3 Coarse sand) finished with a floating coat of neat cement red oxide mix of same proportion including cement slurry, but excluding the cost of nosing of steps etc. complete.	550.73	Sqm	273.24	150481.47

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
11.11	Red oxide plaster skirting (upto 30 cm ht.) with top layer of 6 mm thick plaster of cement mortar red oxide mix using 3.5 Kg of red oxide of iron per 50 Kg of cement in mortar 1:3 (1Cement: 3Coarse Sand) finished with a floating coat of cement red oxide mix of same proportion.				
11.11.1	18 mm thick with under layer 12 mm thick cement plaster 1:3 (1Cement : 3Coarse Sand)	22.31	sqm	133.40	2975.54
11.15	40 mm thick marble chips flooring rubbed & polished to granolithic finish, under layer 34mm thick cement concrete 1:2:4 (1Cement: 2 Coarse sand : 4 Grade Stone aggregate 12.5 mm nominal size) and top layer 6mm thick with white, black, chocolate, green, yellow, or green marble chips of size from 1mm to 4mm nominal size laid in cement mabble powder mix 3:1 (3 Cement: 1 Marble powder) by weight in proportion of 4:7 (4 Cement marble powder mix : 7 marvle chips) by volume including cement slurry etc. complete.				
11.15.6	Ordinary cement without any pigment	328.68	sqm	184.92	60779.51
11.16	40 mm thick marble chips Skirting (upto 30cm hight) rubbed & polished to granolithic finish, under layer 31mm thick cement concrete 1:2:4 (1Cement: 2 Coarse sand : 4 Grade Stone aggregate 12.5 mm nominal size) and top layer 9mm thick with white, black, chocolate, green, yellow, or gren marble chips of size from 4mm to 7mm nominal size laid in cement mabble powder mix 3:1 (3 Cement: 1 Marble powder) by weight in proportion of 4:7 (4 Cement marble powder mix : 7 marvle chips) by volume including cement slurry etc. complete.				
11.16.1	Ordinary cement without any pigment	34.85	sqm	191.36	6668.13
11.20.1	Providing and Fixing Glass Strips in joints of terrazzo/cement concrete floor				
	40 mm wide and 4m thick	1847.43	meter	14.72	27194.16
16.4A.2	Providing and fixing 18mm thick mirror polished, machine cut black granite stone for wash basine platforms of requiried size of approved shade, colour texture laid over 20mm thick base cement mortar 1:4 (1cement:4coarse sand) with joint treated with white cement mixed with maching pigment epoxy touch ups including rubbing, curing, edge moulding, front latak and necessary cutout for sink and wash basis counter as per drawings complete in all respect.				
		7.54	sqm	2300.00	17342.00

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
11.48	Kota stone slab flooring over 20 mm (average) thick cement mortar 1:3 (1 Cement: 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete.				
	25 mm thick	38.20	sqm	521.64	19926.65
11.49	kota stone slab 25 mm thick in riser of steps, skirting, dado, and pillars laid on 12mm (average) thick cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete.	16.71	sqm	531.76	8885.71
11.58	Extra for nosing in steps and treads of Kota stone slab.	63.00	meter	23.00	1449.00
11.73	Providing 7 Fixing 1st quality ceramic glazed tiles conforming to IS: 13753 of minimum thickness 5mm of approved make like NITCO, ORIENT, SOMANY, KAJARIA or equivalent make in all colors, shades except begundy, bottle green, black of any size as approved by Engineer- in-Charge in skirting, riser of steps and dados over 12mm thick bed of cement mortar 1:3 (1 Cement: 3 Coarse sand) and jointing with grey cement slurry @ 3.3 Kg per Sqm including pointing in white cement mixed with pigment of matching shade complete.	132.00	sqm	394.68	52096.61
11.75	Providing & Laying ceramic floor glazed tiles 300x300mm (thickness to be specified by the manufacturer) of first Quality conforming to IS: 13755 of NITCO, ORIENT, SOMANY or equivalent make in all colors, shades except white, ivory, grey, fume red brown laid on 20 mm thick bed of cement mortar 1:4 (1 Cement: 4 Coarse sand) including pointing the joints with white cement and matching pigments etc. complete.	71.72	sqm	530.84	38071.42

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
12.82	Providing & fixing at all ht. False ceiling of 12.5 mm thick tapered edges gypsum board conforming to IS: 2095 including providing and fixing of frame work made of special sections power pressed from MS sheet and galvanised in accordance with Zinc coating 600 as per IS: 277 and consisting if angle cleats of size 25x1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flanges fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x5mm of required length, and other end of the angle hanger being fixed with nut and bolts to GI channels 45x 15 x 0.9 mm running at the rate of 100 mm centre to centre to which the ceiling section 0.5mm thick bottom wedges of 80 mm with tapered flanges of 26 mm each having clips of 10.5mm at 450 mm centre to centre shall be fixed in a direction perpendicular to GI channel with connecting clips made out of 2.64 mm dia x 230 mm long GI wire at every junction including fixing the gypsum board with ceiling section and perimetre channel 0.5mm thick 27 mm high having flanges of 20mm & 30mm long, the perimetre of ceiling	97.87	sqm	478.40	46821.01
13.8.4	12 mm cement plaster on the rough side of single or half brick wall of mix 1:6 (1 Cement: 6 Fine Sand)	1714.53	sqm	50.60	86755.22
13.24.1	6 mm cement plaster to ceiling of mix: 1:3 (1 Cement: 3 Fine Sand)	1134.17	sqm	46.00	52171.70
13.63	Pointing on tile brick work with cement mortar 1:3 (1 Cement: 3 Fine sand)				
13.63.2	Ruled pointing	2514.66	sqm	49.68	124928.31
13.70.1	White washing with lime to give an even shade				
	New work (Three or more coats)	1134.17	sqm	5.34	6056.47
13.77.2	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
	New work (Three or more coats) over and including priming coat with cement primer	1714.53	sqm	34.04	58362.50
13.79.1	Finishing wall with water proofing cement paint "Snowcem-Plus" of M/s Snowcem India Ltd. or equivalent of required shade	2514.66	sqm	26.68	67091.13
13.93	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
	Two or more coat of new work	484.23	sqm	27.60	13364.70
16.2	Making plinth protection with bricks of class designation 75 laid on edge in cement mortar 1:6 (1 Cement: 6 Coarse sand) with 12mm thick bed of cement mortar 1:6 (1 Cement: 6 Coarse sand) over 75 mm bed of dry brick aggregate 40mm nominal size rammed, consolidated and grouted with fine sand and the top of brick pointed with cement mortar 1:3 (1 Cement: 3 Coarse sand)				

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
16.2.1	With F P S bricks	365.42	sqm	294.40	107579.06
17.1	Preparation of subgrade by excavation earth to an average of 22.5 cm depth, dressing to chamber and consolidating with road roller including making good the undulations etc. and disposal of surplus earth lead upto 50 meter.	1636.18	sqm	20.24	33116.18
17.2	Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spills etc. and rerolling the subgrade.	1636.18	sqm	0.92	1505.28
17.61	Cement concrete 1:2:4 (1 Cement : 2 Coarse Snd: 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete	35.36	Cum	2125.20	75147.07
19.1	Providing & Fixing water closet squatting pan (Indian type WC pan) with 100mm cast iron P or S trap 10 liter low level white PVC flushing cistern with manually controlled device (Handle lever) conforming to IS: 7231, Parryware/Hindware/Seabird/Orient(Carol) with all fitting and fixtures complete including cutting and making good the walls and floor wherever required:				
19.1.2	White Vitreous China long pan pattern WC pan of size 580 mm	6.00	Each	1897.04	11382.24
19.2	Providing & Fixing white vitreous china pedestal type water closet (European type WC pan) with seat and lid, 10 litre low level white PVC flushing cistren with manually controlled device (Handle lever) conforming to IS: 7231, Parryware/Hindware/Seabird/Orient(Carol) with all fitting and fixtures complete including cutting and making good the walls and floor wherever required:				
19.2.2	WC pan with IS marked white solid plastic seat & lid	6.00	Each	1854.72	11128.32
19.4	Providing & Fixing white vitreous china flat back or wall cornertype lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unions and GI clamps complete including painting, fitting and brackets, cutting and making good the walls and floor wherever required:				
19.4.3	Range of three urinals basins with 10 litre white PVC automatic flushing cistern Parryware/Hindware/Seabird/Orient(Carol)	4.00	Each	3556.72	14226.88

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
19.7	Providing & Fixing wash basin with CI/MS brackets, 15 mm CP brass pillar taps, Kingston/Gem/Techno/Parko, 32mm CP brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever required:				
19.7.3	Wash basin size 550x400 mm with a pair of 15mm CP brass pillar taps.	6.00	Each	1004.04	6024.24
19.8.2	Add for providing 32mm dia CP brass trap	6.00	Each	104.88	629.28
19.38	Providing & Fixing 100mm sand cast iron grating for gully, floor or nahani trap.	12.00	Each	13.88	166.56
19.42 A	Providing & Fixing mirror thickness of required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing.				
19.42A.4	Rectangular shape 1500 x 450 mm	6.00	Each	945.76	5674.56
19.43	Providing & Fixing 600x120x5 mm glass shelf with edges round of supported on anodised aluminium angle frame with CP brass bracket and guard rail complete fixed with 40mm long screws, rawl plug etc. complete.	6.00	Each	168.36	1010.16
19.45	Providing & Fixing toilet paper holder				
19.45.1	CP Brass	6.00	Each	115.00	690.00
19.48	Providing & Fixing soil waste & vent pipes				
19.48.1	100 mm dia	105.00	Metre	344.08	36128.40
19.48.2	75 mm dia. centrifugally cast (spun) iron S & S pipe	98.00	Metre	427.80	41924.40
19.49	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.				
19.49.1	for 100 mm dia. pipe	8.00	Each	60.72	485.76
19.49.2	for 75 mm dia. pipe	8.00	Each	59.80	478.40
19.50.	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
19.50.1	100 mm Centrifugally cast (spun) iron S&S.	6.00	Each	237.36	1424.16
19.50.2	75 mm Centrifugally cast (spun) iron S&S.	6.00	Each	189.52	1137.12
19.51	Providing and fixing plain bend of required degree.				
19.51.1	100 mm Centrifugally cast (spun) iron S&S	6.00	Each	187.68	1126.08
19.51.2	75 mm Centrifugally cast (spun) iron S&S	6.00	Each	126.04	756.24

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
19.52	Providing and fixing heel rest sanitary bend.				
19.52.1	100 mm Centrifugally cast (spun) iron S&S	6.00	Each	230.00	1380.00
19.52.2	75 mm Centrifugally cast (spun) iron S&S	6.00	Each	202.40	1214.40
19.67	Providing and fixing terminal guard.				
19.67.1	100 mm Centrifugally cast (spun) iron S&S	6.00	Each	156.40	938.40
19.67.2	75 mm Centrifugally cast (spun) iron S&S	6.00	Each	151.80	910.80
19.68	Providing and fixing collar:				
19.68.1	100 mm dia Centrifugally cast (spun) iron S&S	6.00	Each	156.40	938.40
19.68.2	75 mm dia Centrifugally cast (spun) iron S&S	6.00	Each	142.60	855.60
19.70.	Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter:				
19.70.1	100 mm	45.00	Each	105.80	4761.00
19.70.2	75 mm	38.00	Each	92.00	3496.00
19.71	Providing and fixing M.S. stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter:				
19.71.1	100 mm dia	25.00	Each	42.32	1058.00
19.71.2	75mm dia	25.00	Each	41.40	1035.00
19.72	Providing and fixing sand cast iron/centrifugally cast(spun) iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:				
19.72.2	100 mm inlet and 75 mm outlet	6.00	Each	515.20	3091.20
20.2	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (Internal work):				
	Concealed				
20.2.1.1	15 mm dia nominal bore (Medium)	155.25	Metre	121.44	18853.56
20.2.1.2	20 mm dia nominal bore (Medium)	105.35	Metre	141.68	14925.99
20.3	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (External work):				
	Exposed on Wall				
20.3.1	15 mm dia nominal bore	125.53	Metre	74.52	9354.50
20.3.2	20 mm dia nominal bore	95.20	Metre	92.00	8758.40
	40mm dia nominal bore	82.58	Metre	161.00	13295.38
20.9.3	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	25 mm dia nominal bore	6.00	Each	194.12	1164.72

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
	40mm dia nominal bore	4.00	Each	331.20	1324.80
20.77	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality.				
	15 mm dia nominal bore	125.53	Metre	1.84	230.98
	20 mm dia nominal bore	95.20	Metre	2.30	218.96
	40mm dia nominal bore	82.58	Metre	3.68	303.89
20.87	Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work)				
	15 mm dia nominal bore	18.00	Each	71.76	1291.68
	20 mm dia nominal bore	15.00	Each	83.72	1255.80
	40mm dia nominal bore	8.00	Each	154.56	1236.48
20.91	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15 mm nominal bore	6.00	Each	268.64	1611.84
20.90.	Providing and fixing C.P brass bib cock of approved quality.				
	15mm nominal bore.	6.00	Each	188.60	1131.60
20.94	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931.				
	15 mm nominal bore	6.00	Each	213.44	1280.64
20.93	Providing & fixing C.P brass angle valve for basin mixer and geyser points of approved quality conforming to is: 8931. 15mm nominal bore.	20.00	Each	188.60	3772.00
21.1	Providing laying 7 jointing glazed stoneware pipes grade A with stuff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.150mm dia	52.56	meter	128.80	6769.73
8.03	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.	1090.60	Sqm	325.68	355186.61
a)	Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound confirming to IS : 2645 over the RCC slab including cleaning the surface before treatment.				

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
b)	Laying cement concrete using broken bricks/brick bats 25 mm to 100 mm size with 50% of cement mortar 1:5 (1 cement :5 coarse sand) admixed with proprietary water proofing compound confirming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound confirming to IS:2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				
c)	After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound confirming to IS : 2645.				
d)	Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound confirming to IS: 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300x300 mm square.				
e)	The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer.				
	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
	The treatment is to be carried out by a specialised agency with the approval of the Engineer and shall be guaranteed fully effective for a minimum period of 10 years.				
	Notwithstanding this, the responsibility of effectiveness of the treatment shall be fully, entirely and unqualifiedly be that of the main contractor for the work.				
12.39	Making khurras 45 x 45 cm with average minimum thickness of 5cm cement concrete 1:2:4 (1:cement: 2 coarse sand: 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement: 3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete.	35.00	Each	79.12	2769.20
20.89	Providing & placing on terrace (at all floor level) polyethylen water storage tank ISI: 12701 marked indicating the BIS License No. with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank (Sintex, Electroplast, Star, Lotus or equivalent having valid ISI license.)	5000.00	per litre capacity	4.60	23000.00

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
12.78	Providing and fixing on wall face unplasticised - rigid PVC rain water pipe conforming to IS:13592 type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.				
	(I) single socketed pipe				
12.78.2	110mm dia	203.50	meter	145.36	29580.76
12.79	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised rigid PVC rain water pipe conforming to IS:13592 type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.				
12.79.5.2	110mm bend	74.00	Each	93.84	6944.16

D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
	NON-SCHEDULE ITEMS				
1	Providing and Fixing M.S.35x35x5 angle frames for windows, and ventilators with L- type section made of .004 mm thick M S welded jali joints mitred and welded and grinded finish with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 Cement: 3 Coarse sand: 6 Graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or fixing clips or with bolts and nuts and require including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers.	72.47	Sqm	828.00	60005.16
2	Treatment of soil With chlorpyrifos/ lindane E C 20% with 1% concentration. (Free supply as per IS plinth area will be measured)	1011.73	Sqm	23.00	23269.79
	TOTAL - A				11289899.51

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
ELECTRICAL WORK						
		SUB-HEAD I - POINT WIRING				
		(PVC INSULATED CU. CONDUCTOR WIRES IN MS CONDUITS)				
1)		Copper point (Primary point) wiring in MS conduit :				
		Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq. mm PVC insulated, copper conductor cable in surface / recessed MS conduit including providing 1.5 sq mm dia earth copper wire for loop earthing as required.				
a)	403	Group - C	Nos	180.00	584.10	105138.00
		(CPWD-SR-94)				
2)		Copper point (Secondary point) wiring in MS conduit :				
		Wiring for Secondary (loop) point / fan point / exhaust fan point / call bell point with 1.5 sq. mm PVC insulated, copper conductor cable in surface / recessed MS conduit including providing 1.5sq mm dia earth copper wire for loop earthing as required .				
a)	403	Group - C	Nos	30.00	544.50	16335.00
		(DR/DSR-94)				
3)	404	Copper twin control point wiring in MS conduit :				
		(CPWD-SR-94)				
		Wiring for twin control light point with 1.5 sq. mm PVC insulated, copper conductor, cable in surface / recessed MS conduit with 2, way 5.6 amps. Piano tumbler type switch etc. as required including providing 1.5 sq mm dia earth copper wire for loop earthing as required.	Point	8.00	633.60	5068.80
4)	407	Copper plug point wiring in MS conduit (2 x 4 sq.				
		(CPWD-SR-94)				
		Wiring for power plug (with Neon) with 2 x 4 sq. mm PVC insulated, copper conductor, single core cable in surface / recessed MS conduit along with 1 no. 2.5 sq mm dia earth copper wire for loop earthing as required.	RM	200.00	118.80	23760.00
5)	408	Copper plug point wiring in MS conduit (4 x 4 sq.				
		(CPWD-SR-94)				
		Wiring for power plug (with Neon) with 4 x 4 sq. mm PVC insulated, copper conductor, single core cable in surface / recessed MS conduit along with 2 no. 2.5 sq mm dia earth copper wire for loop earthing as required.	RM	10.00	191.07	1910.70
6)	409	Copper circuit wiring in MS conduit (2x2.5 sq. mm)				
		(CPWD-SR-94)				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		Wiring for circuit wiring with 2 x 2.5+ 1x1.5 loop earth sq. mm PVC insulated, copper conductor, single core cable in surface / recessed MS conduit as required.	RM	800.00	89.10	71280.00
7)		Copper sub main wiring in MS conduit :				
		Wiring for submain wiring with the following size of PVC insulated, copper conductor, single core cable in surface/ recessed MS conduit as required.				
a)	412	2 x 6 + 1x4E sq. mm (For A/C socket)	RM	40.00	148.50	5940.00
		(CPWD-SR-94)				
b)	412	2 x 6 + 1x4E sq. mm (For sub-main wiring)	RM	90.00	148.50	13365.00
		(CPWD-SR-94)				
c)	419	4 x 10 + 1x6E sq. mm	RM	125.00	297.00	37125.00
		(CPWD-SR-94)				
8)		Supplying and fixing of following sizes of MS conduit along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a)	801	20 mm dia	RM	800.00	59.40	47520.00
		(CPWD-SR-94)				
b)	802	25 mm dia	RM	400.00	69.30	27720.00
		(CPWD-SR-94)				
c)	803	32 mm dia	RM	200.00	99.00	19800.00
		(CPWD-SR-94)				
9)	1207	Supplying and fixing metal box of 180 mm x 100 mm x 60mm deep (nominal size) on surface or in recessed with suitable size Phenolic laminated sheet cover in the front including providing and fixing 3 pin 5/6 amp socket outlet and 5/6 amp tumbler/Piano type switch connection, painting, etc. as required. (For light plugs)	Set	27.00	138.60	3742.20
		(CPWD-SR-94)				
10)	1208	Supplying and fixing metal box of 180 mm x 100 mm x 60 mm deep (nominal size) on surface / recessed with suitable size Phonemic laminated sheet cover in the front including providing and fixing 6 pin 15 / 16 amp socket outlet and 15/16amp tumbler/Piano type switch connection, painting, etc as required. (For Power plugs).	Set	15.00	188.10	2821.50
11)	1822	S/F 32A SPNMCB industrial socket outlet :-				
		(CPWD-SR-94)				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		Supplying and fixing 20 amps ,240 Volts SPN industrial type socket outlet with 2 pole and earth metal enclosed plug top along with 32 amps, "C Characteristics curve" series SP MCB , in sheet steel enclosure ,on surface or in recess with chained metal cover for the socket ,outlet and complete with connections ,testing and commissioning etc. as required. (For A/C outlets in flats)	Nos	6.00	841.50	5049.00
12)	1208	Supplying and fixing suitable module modular metal box on surface or in recess with suitable size modular base plate & cover plate including providing and fixing 1No. 6 pin 15/16 A and 2 Nos. 5/6 A modular socket outlets with shutters and 15/16 A modular switch, connections with name plate with marking "Power point on UPS" all accessories etc and all civil works complete as required. (Computer Power Point).	Set	17.00	594.00	10098.00
	(CPWD-SR-94)					
		SUB-HEAD II				
		SUPPLY & ERECTION OF LIGHTING FIXTURES & FANS				
1)	MR	Supply of the following flourescent tube lght fixtures with all accessories, such as spring loaded side holders, copper ballasts, starters, power factor compensators, MS housing to house ballasts, starter, power factor compensator complete as required .				
a)		Philips cat. No. TMC-55, 1 x 36 W FL Lamp HPF, GE TCI C/S WIPRO WCF 50/140 with 36 W Trulite Fl. Lamp.	Nos	15.00	742.50	11137.50
b)		Philips cat. No. TCS-306, 2 x 36 W FL Lamp HPF, GE TC MO S, WIPRO WVF 41236, with 2 nos. 36 W Trulite Fl. Lamp.	Nos	60.00	2465.10	147906.00
i)	1225	Installation of Flourescent fittings with down rod:	Nos.	60.00	148.50	8910.00
	ITCFFDCU	Installation, testing & comissioning of prewired, flourescent fittings, of all types, complete with all accessories and tubes etc. including supplying and fixing ball and socket arrangement, 2 nos. down rods of 20 mm dia x 1.6 mm thick steel conduit upto 30 cm. length, painting and wiring the down rods and connections with 1.5 sq. mm PVC insulated, copper conductor, single core cable as required.				
ii)	1227	Providing & fixing extra down rod:	Nos.	60.00	99.00	5940.00
	EXTDRCU	Providing & fixing extra conduit down rod of 20 mm dia 2x10 cm length with 2x1.5 sq. mm PVC insulated, copper conductor, single core cable including painting etc. as required (Note: More than 5 cm. length shall be rounded to the nearest 10 cm. and 5 cm.or less shall be ignored)				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
c)		Philips cat. No. TKS-306, 2 x 36 W FL Lamp HPF, GE TC MO S, WIPRO WVF 41236, with 2 nos. 36 W Trulite Fl. Lamp.	Nos	25.00	2465.10	61627.50
i)	1225	Installation of above Fluorescent fittings		25.00	148.50	3712.50
	ITCFFDCU	Installation, testing & commissioning of prewired, fluorescent fittings, of all types, complete with all accessories and tubes etc. including supplying and fixing ball and socket arrangement, 2 nos. down rods of 20 mm dia x 1.6 mm thick steel conduit upto 30 cm. length, painting and wiring the down rods and connections with 1.5 sq. mm PVC insulated, copper conductor, single core cable as required.				
2)	MR	Supply of the following PL lamp/ halogen fixtures complete with all accessories and with lamp, transformer, Ballast, control gear lamp etc. complete as required.				
a)		Philips Cat. No. FCS 31/211, 2 x 11W CFL or equivalent.	Nos	30.00	1485.00	44550.00
b)		Bulk head light suitable for 1 x 10W ,GE CFL E AS BH, PHILIPS FXC 101	Nos	20.00	841.50	16830.00
c)		Ceiling Fan (1400 mm) :				
i)	1229	Supplying	Nos	60.00	1633.50	98010.00
	ITCCFCU	Supply of 1400 mm 350 RPM with regulator ceiling fan including wiring the down rod of standard length (upto 30 cm)				
ii)	1229	Installation	Nos	60.00	59.40	3564.00
	ITCCFCU	Installation, testing and commissioning of ceiling fan and regulator including wiring the down rod of standard length (upto 30 cm.) with 1.5 sq mm. PVC insulated, copper conductor, single core cable etc. as required.				
iii)	1008	Circular MS fan box:	Nos	60.00	59.40	3564.00
	MB20015075	Supplying & fixing Circular MS fan box of 150 x 75 x 60 mm deep in recess with suitable size of phenolic laminated sheet cover in the front including painting etc. as required.				
iv)	1232	Extra down rod 20 mm dia:	RM	50.00	19.80	990.00
	EXTPIP20	Supplying and fixing extra down rod of 10 cm. length, G.I. pipe, 20 mm dia., heavy gauge, including painting etc. as required.				
v)	1230	Cutting and threading down rod:	Nos	40.00	9.90	396.00
	EXTCUTPIP	Extra for cutting and threading of G.I. pipe, heavy gauge down rod for ceiling fan etc. as required.				
d)	1235	Exhaust fan (300 mm with louvres):	Nos	10.00	1930.50	19305.00

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
	ITCEF450	Supply of exhaust fan in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing, commissioning etc. as required.				
3)	1212	Erection of incandescent or CFL light fittings :				
	(CPWD-SR-94)					
		Erection of wall bracket/ceiling fittings of all sizes and shapes containing upto two GLS/CFL/MH/SON/Halogen lamps per fitting, complete with all accessories including connections	Nos	50.00	59.40	2970.00
4)	1235	ITC exhaust fan upto 450 mm sweep:				
	(CPWD-SR-94)					
		Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing, commissioning etc. as required.	Nos	10.00	247.50	2475.00
5)	1237	Fixing louvers / Shutters for exhaust fan :				
	(CPWD-SR-94)					
		Extra for fixing the louvers / shutters complete with frame for exhaust fans of all sizes.	Nos	10.00	49.50	495.00
		SUB-HEAD III				
		MDB'S, DISTRIBUTION BOARDS & CABLES				
1)						
		Supply, installation, testing and commissioning of 2 mm thick MS sheet steel fabricated cubicle type Panel dust and vermin proof complete with hinged and lockable doors . The Sheet Steel shall under go minimum seven tank treatment followed by finishing treatment of powder coating with 60 micron minimum thickness. All the panels shall be floor mounted and dead front construction complete with interconnections by copper strips/ wires and painting. The distribution boards shall be provided with 1 no. voltmeter of range 0-500 volts VSS, Ammeter of required range ASS along with associated C.T.'s in the incoming switch.				
		One set of phase indicating lamps with back up fuses in incoming feeder only. One no. ON indication lamp to be provided in all outgoing feeders.				
a.		Main Panel (Length 1700mm, Depth 400mm & Height 2100mm)				
		Incoming				
		1 No. 630 amp 4P MCCB of 25 KA service breaking capacity and 630 amp Trip setting with heavy duty solid neutral link.				
		Bus Bar				
		1 No. 800 amp TPN Aluminium Bus bar of suitable length.				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		Outgoing				
		3 Nos. 250 amp & 2 Nos. 200 amp 4P MCCB of 25 KA service breaking capacity & 300 amp Trip setting with heavy duty solid neutral link.				
		1 No. 100 amp 4P MCCB of 25 KA service breaking capacity & 100 amp Trip setting with heavy duty solid neutral link.				
		MDB & EMD (A1 TO A7) described as above	Set	1.00	226215.00	226215.00
b.		Panel Emergency				
		Incoming				
		1 No. 250 amp 4P MCCB of 10 KA service breaking capacity and 25 amp on load change over switch Trip setting with heavy duty solid neutral link.				
		Bus Bar				
		1 No. 300 amp TPN Aluminium Bus bar of suitable length.				
		Outgoing				
		5 Nos. 63 amp 4P MCCB of 25 KA service breaking capacity & 25 amp Trip setting with heavy duty solid neutral link.				
		2 Nos. 63 amp DP MCB of 10 KA service breaking capacity				
			Set	1.00	83160.00	83160.00
c.		PDB -Machine panel for workshop				
		Incoming				
		1 No. 200 amp 4P MCCB of 25 KA service breaking capacity with electronic release.				
		Bus Bar				
		1 No. 250 amp TPN Aluminium Bus bar of suitable length.				
		Outgoing				
		4 Nos. 63 amp 4P MCCB of 25 KA service breaking capacity				
		4 nos. 40 A 4P MCB, 10 KA breaking capacity, motor duty.				
		2 nos. 32 A 4P DP MCCB, 25 KA breaking capacity, motor duty.				
			Set	1.00	186733.80	186733.80
d		CAPACITOR Panel				
		Incoming				
		1 No. 250 amp 4P MCCB of 25 KA service breaking capacity with electronic release.				
		Bus Bar				
		1 No. 250 amp TPN Aluminium Bus bar of suitable length.				
		6 nos. 32 A power contractor, 32 A TP mcb & 75 KVAR Cap. BANK				
			Set	1.00	129195.00	129195.00
		S/F 5A to 32A B Characteristics Curve series MCB :				
2)						

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		Supplying and fixing 5 amp to 32 amps rating, 240 volts, "B Characteristics curve" series, miniature circuit breaker of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required (Category-B)				
		Single pole				
a.	1801		Each	100.00	143.55	14355.00
	(CPWD-SR-94)	S/F FP MCB isolator :				
3)						
		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required :				
		63 amps				
a)	1813		Each	6.00	594.00	3564.00
	(CPWD-SR-94)					
4)						
		Supplying and fixing following rating, double pole, (single phase and neutral) 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)		63 amps	Each	15.00	2009.70	30145.50
	1816					
	(CPWD-SR-94)	Supply and fixing of 8 way TPN DB double metal door enclosure (IP 42) with provision for installing 24 Nos of 10/20 amps SP MCB's i.e. 8 Nos. of 10/20 amp SP MCB's arranged in 3 rows arranged in 3 tier one above other and controlled by 1 No. 63 amp TPN MCB and neutral link and having per phase isolation with provision for installing SPN RCCB separate for each phase.(The rate does not				
5)	MR		Nos	5.00	4653.00	23265.00
	1903					
		Supplying, laying of following sizes XLPE insulated (Heavy duty) Aluminium conductor cables suitable for working voltage upto and including 1100 Volts , laid and tied on existing overhead cable trays; or laid and tied over MS supports in masonry trenches including providing MS supports and clamps for fixing to supports.				
6)	MR					
		3.5 Core, 185 sq. mm				
i.			RM	110.00	831.60	91476.00
		3.5 Core, 120 sq. mm				
ii.			RM	125.00	608.85	76106.25
		4 Core, 25 sq. mm				
iii			RM	100.00	222.75	22275.00
		4 Core, 16 sq. mm				
iv			RM	50.00	173.25	8662.50

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
7)		Supply and making end termination with brass compression glands and aluminium lugs following sizes of PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade of the following sizes as required.				
		3.5 Core, 185 sq. mm				
i)	630		Set	10.00	594.00	5940.00
	(CPWD-SR-95	3.5 Core, 120 sq. mm				
ii)	627		Set	4.00	495.00	1980.00
	(CPWD-SR-95	4 Core, 25 sq. mm				
iii)	620		Set	6.00	99.00	594.00
	(CPWD-SR-95	4 Core, 16 sq. mm				
iv)			Set	20.00	99.00	1980.00
8)						
		Supply and making end termination with brass compression glands and copper lugs following sizes of PVC sheathed / aluminium conductor cable of 1.1 KV grade of the following sizes as required.				
a		2 Core, 6 sq. mm	Set	20.00	99.00	1980.00
9)		Race way for machines				
	(CPWD-SR-95					
		Fabricating and installing following size of MS GI Race way cover with locking arrangement				
i		200 mm, width x 75mm depth x 2.0 mm thickness	RM	65.00	420.75	27348.75
ii		300 mm width x 75mm depth x 2.0 mm thickness	RM	5.00	594.00	2970.00
		SUB-HEAD IV				
		EARTHING & LOOP EARTHING				
		Earthing with G.I. earth plate as per IS: 3043 including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal and salt) complete as required.				
1)	2104)		Set	6.00	3465.00	20790.00
	(CPWD-SR-94	Extra for charcoal and salt for GI plate or copper plate earth electrode as required.				
2)	2106		Set	6.00	594.00	3564.00
	(CPWD-SR-94	P/F 25 x 5mm GI earth strip in surface / recess :				
3)	2117					
	(CPWD-SR-94	Providing and fixing 25mm x 5mm GI strip on surface or in recess for connections etc. as required.				
			RM	100.00	99.00	9900.00
		P/F 6 SWG G.I. earth wire with conduit/cable :				
4)	2120					
	(CPWD-SR-94	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with the existing surface / recessed conduit / submain wiring / cable as required.				
			RM	500.00	17.82	8910.00

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		P/F 25 x 5 mm GI earth strip in pipe :				
5)	2113					
	(CPWD-SR-94)	Providing and fixing 25 x 3 mm GI strip in 40 mm dia GI pipe from earth electrode as required.				
			RM	20.00	247.50	4950.00
		SUB-HEAD V				
		TELEPHONE WIRING AND CONDUITING				
		Supplying and fixing in position MS anodised box including providing RJ 11 telephone socket, white polycarbonate cover plate complete as required.				
1)	MR		Nos.	16.00	123.75	1980.00
		Supplying and wiring with 4 x 0.61 mm dia (2-Pair) PVC insulated copper conductor wires in existing conduits from the telephone outlet box to the tag block.				
2)	MR		RM	220.00	17.82	3920.40
		Supply and laying of the following sizes of PVC insulated copper conductor armoured telephone cables.				
3)	MR	10 Pair cable of 0.61 mm dia				
			RM	150.00	138.60	20790.00
4)	MR	20 Pair tag block (TTB)				
			Nos	1.00	1485.00	1485.00
		Supplying and fixing of following sizes of MS conduit along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
5)		20 mm dia				
	802		RM	180.00	59.40	10692.00
	(CPWD-SR-94)					
		CONDUITING FOR COMPUTER NETWORKING				
6)						
a)		Supply and fixing of following sizes of MS conduit along with the accessories in surface/recess (including supply & fixing of conduit with all accessories) including painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit as required.				
	i)	20 mm dia	RM	150.00	59.40	8910.00
	ii)	25 mm dia	RM	10.00	69.30	693.00
b)		Supplying and fixing 18 module modular metal box on surface or in recess with modular cover plate and all accessories complete as required.	Nos	1.00	495.00	495.00
		SUB-HEAD VI				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		FIRE DETECTION AND ALARM SYSTEM				
		Supply, installation, fixing, testing and commissioning of Manual call point in ABS plastic body (Break glass) to initiate audio visual alarm as per specifications complete.				
1	MR		Nos	1.00	693.00	693.00
		Supply, installation, testing and commissioning of Fire Alarm Hooter having and audible range of 25 meters.				
2	MR		Nos	1.00	693.00	693.00
		Supplying, installation, fixing, testing and commissioning of wall mounting microprocessor based 2 zone control panel microprocessor based with window type annunciation to indicate fire and				
3	MR		Set	1.00	27720.00	27720.00
		Supply, installation, testing and commissioning of following types of addressable fire detection and alarm accessories as per technical specification & complete with connections etc as required.				
4)						
a)	MR	Ionization type Smoke Detector	Nos	20.00	1980.00	39600.00
b)	MR	Heat Detector	Nos	4.00	1782.00	7128.00
c)	MR	Response Indicator	Nos	10.00	198.00	1980.00
5)		Supply and drawing 2 x 1.5 sq.mm. PVC insulated copper conductor ,single core cable in the existing surface/recessed PVC /steel conduit/PVC casing and capping as required.				
	602		RM	500.00	29.70	14850.00
6)	CPWD-SR-94	Supply and laying of 5C x 1.5 sq.mm. PVC insulated copper conductor cable complete as required.				
			RM	50.00	168.30	8415.00
7)	MR	Supplying and fixing of following sizes of steel conduit along with the accessories in surface/recess including painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit as required.				
a)		20 mm dla				
	702		RM	150.00	59.40	8910.00
b)		20 mm dia GI Flexible:	RM	25.00	49.50	1237.50
		SUB-HEAD VII				
		EPABX				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		Supply, installation, fixing, testing and commissioning of MDF (Krone type) for termination of 20 lines with necessary protective devices for all trunk line from high voltage & high current complete as required.				
1	MR	EPABX	Set	1.00	42075.00	42075.00
		TOTAL - B				2017382.40
		TOTAL A + B				13307281.91
		NBCC CHARGES 10%				1330728.19
		Contingency Charges 3%				399218.46
		TOTAL A + B				15037228.56

Item No. 4.9

**To consider and approve the RCE for renovation of
Old Library Building at NIT Kurukshetra**

Renovation of old Library Building needs to be done. The work will include false ceiling, floor tiling and glazed walls, replacement of door frames, providing aluminium doors, electrical fittings for false ceiling, renovation of toilets and misc. repair including cement plastering, painting, distempering and white washing etc. For the above work, a rough cost estimate amounting to Rs. 21.97 lac has been prepared. The Govt. of India has sanctioned a sum of Rs. 21.97 lacs under TEQIP scheme for the above purpose.

It is, therefore, requested that the Building & Works Committee may consider and approve the above estimate for Rs. 21.97 lacs.

**ROUGH COST ESTIMATE FOR RENOVATION OF OLD LIBRARY BUILDING
AT NIT, KURUKSHETRA**

Sr. No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.	Providing & fixing false ceiling as per specification.	450.00	Sqm	650.00	292500.00
2.	Providing & laying floor tiles etc. complete	430.00	Sqm	700.00	301000.00
3.	Providing & laying Glazed wall tiles	310.00	Sqm	515.00	159650.00
4.	Replacement of door frame and fixing of new door frames	25.00	Rmt	500.00	12500.00
5.	Painting, white washing & distempering work	L S			125000.00
6.	Renovation of toilets	L S			433000.00
7.	Cement plaster in CM 1:6	L S			30000.00
8.	Heritage on Columns	L S			15000.00
9.	Aluminum Glazing work	L S			315000.00
10.	Electrical fitting for False Ceiling	L S			350400.00
					2034050.00
		NBCC Charges @ 8%			162724.00
				Total	2196774.00


Say Rs. 21.97 lacs

Item No.4.10

**To consider & approve the rough cost estimate for repair/
modification of Instructional Building at NIT Kurukshetra.**

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 have become very old leading to frequent electrical break downs. Consequently, the teaching work has been suffering badly. It was, 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. was Rs. 15.38 lacs. The BWC in its 2nd meeting held on 27th Aug., 2004 vide item no. 2.38 approved the above RCE amounting to Rs. 15.38 lac. But due to some extra provision to be made, the NBCC submitted a RRCE amounting to Rs.22.01 lac.

It is, therefore, requested that the Building & Works Committee may consider and approve the above RRCE for Rs. 22.01 lac.



**ROUGH COST ESTIMATE FOR INSTRUCTIONAL BUILDING REPAIR & MODIFICATION
AT NIT KURUKSHETRA**

Sr. No.	HSR Item No.	Description	Unit	Qty	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.				
	(I)	Fan Point				
	(a)	Short Point	Point	25.00	217.80	5445.00
	(b)	Medium Point	Point	78.00	299.20	23337.60
	(c)	Long Point	Point	78.00	393.80	30716.40
	(ii)	Light Point				
	(a)	Short Point	Point	25.00	151.80	3795.00
	(b)	Medium Point	Point	260.00	233.20	60632.00
	(c)	Long Point	Point	218.00	323.40	70501.20
	(iii)	Twin Control Light Point				
	(a)	Short Point	Point	4.00	156.20	624.80
	(b)	Medium Point	Point	10.00	242.00	2420.00
	(c)	Long Point	Point	10.00	336.60	3366.00
	(iv)	Light Point without Control				
	(a)	Short Point	Point	5.00	83.60	418.00
	(b)	Medium Point	Point	45.00	151.80	6831.00
	(c)	Long Point	Point	15.00	237.60	3564.00
	(vi)	Call bell Point including cost of M.S. Box 180 mm x 100 mm x 60mm deep for call bell.				
	(a)	Short Point	Point	2.00	191.40	382.80
	(b)	Medium Point	Point	5.00	272.80	1364.00
	(c)	Long Point	Point	60.00	365.20	21912.00
	(vii)	3 pin 5 Amp. Plug Point				
	(a)	Short Point	Point	10.00	176.00	1760.00
	(b)	Medium Point	Point	150.00	264.00	39600.00
	(c)	Long Point	Point	70.00	356.40	24948.00
	(viii)	3 pin 15 Amp. Plug Point including wiring with 2 No 2.5 Sqmm Copper and 1.5 Sqmm earth wire and 15 Amp switch & socket outlet etc. complete.				
	(a)	Short Point	Point	5.00	204.60	1023.00
	(b)	Medium Point	Point	55.00	297.00	16335.00
	(c)	Long Point	Point	250.00	396.00	99000.00

Sr. No.	HSR Item No.	Description	Unit	Qty	Rate	Amount
2	31.21	Supply & erection of pipe for wiring purpose including bends inspection boxes etc where necessary and painting as required:-				
	xv	Heavy gauge welded conduit pipe 20mm dia 1.60 mm thickness on surfaces.	Rmt	350.00	26.82	9387.00
	xvi	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness on surfaces.	Rmt	150.00	33.12	4968.00
	xvii	Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thickness on surfaces.	Rmt	50.00	41.76	2088.00
	xviii	Heavy gauge welded conduit pipe 40 mm dia 1.60 mm thickness on surfaces.	Rmt	25.00	59.58	1489.50
	xxx	Supply & erection of PVC pipe of 6 kg presure, laid 1 meter below groubd level complete, including digging refilling of the trench with jointing etc.				
	(a)	PVC pipe 120mm dia	Rmt	25.00	106.20	2655.00
	(b)	PVC pipe 80 mm dia	Rmt	25.00	75.60	1890.00
	(c)	PVC pipe 65 mm dia	Rmt	25.00	55.80	1395.00
3	31.22	Earthing with G I earth pipe 4.5 m long & 40 mm dia with masonary enclosures on the top etc. as required	Each	12.00	680.40	8164.80
	(ii)	Extra for using salt and charcoal/ coke for pipe earth electrode as required	Each	12.00	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	Rmt	150.00	44.10	6615.00
4	31.20	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.	Nos	200.00	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.	Nos	10.00	45.00	450.00

Sr. No.	HSR Item	Description	Unit	Qty	Rate	Amount
	(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	Nos	10.00	95.40	954.00
5	31.18 xxii	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 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)	Each	208.00	51.30	10670.40
	xiii	Extra for additional length of 20 mm dia conduit pipe for hanging of fitting (for item no. xxi, xxii)	Rmt	110.00	20.34	2237.40
6	31.12 D	Sheet Steel Enclosure Supply & erection of sheet steel enclosure distribution boards suitable for MCBs etc on wall/ existing board/pedstal with rag bolts including bonding to earth:-				
iv	a	4 Way SPN	Nos	14.00	473.40	6627.60
	b	4 Way TPN	Nos	6.00	1245.60	7473.60
v	a	6 Way SPN	Nos	20.00	502.20	10044.00
	b	6 Way TPN	Nos	3.00	1495.80	4487.40
vi	a	8 Way SPN	Nos	20.00	527.40	10548.00
	b	8 Way TPN	Nos	6.00	1663.20	9979.20
7	31.17	Supply & erection of miniature circuit breaker/Isolator 240/415 V in the existing distribution board including making necessary connections:-				
	(a)	Miniature Circuit Breakers of 9 K.A. breaking capacity				
	(ii)	6 to 32 Amp SP MCB	Nos	600.00	256.10	153660.00
	(iii)	40 to 63 Amp SPN MCB	Nos	35.00	312.00	10920.00
	(b)	M C B (FOR INCOMER)				
	(ii)	63 Amp SPN MCB	Nos	4.00	312.00	1248.00
	(iii)	63 Amp TPN MCB	Nos	2.00	648.70	1297.40

Sr. No.	HSR Description	Unit	Qty	Rate	Amount
8	31.12 Main Switch a Supply & erection of metal clad switches/B.D.B.S with rag bolts on wall or on existing angle iron board/pedstal including bonding to earth and necessary connections:-				
xv	63 Amp TPN (Cropton, GEC, Standard)	Nos	9.00	937.80	8440.20
xvi	100 Amp TPN (-do-)	Nos	11.00	1544.40	16988.40
xvii	200 Amp TPN (Catagary - A)	Nos	3.00	4762.80	14288.40
9	31.35 Dismantilling old wiring points (not recessed) xii including necessary repaire to wall etc.				
a	Light, fan or call bell point	No	300.00	5.04	1512.00
b	Wall socket point	No	150.00	2.88	432.00
NON-SCHEDULE					
1	Supply of following types flourcent tube light fixture complete with tube rod, chocks, condensor etc. Complete of (Phillips make)				
i	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 W HPSV lamp	Nos	10.00	4500.00	45000.00
2	Supply of following size ceiling fan of Bajaj make (Comfort Model)				
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 copper conductor cable single core 1100 volts grade in pipe of suitable size excluding cost & erection of pipe;				
i	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
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	Nos	155.00	950.00	147250.00

Sr. No.	HSR Item No.	Description	Unit	Qty	Rate	Amount
5		Providing & laying of telephone wiring with 2 pair telephone wire from telephone box to telephone point complete with telephone socket outlet, M S Box, hylamp sheet etc.	Nos	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.				
	i	380 mm sweep	Nos	5.00	3000.00	15000.00
	ii	450 mm sweep	Nos	5.00	4000.00	20000.00
7		Providing & fixing Angle Iron frame of suitable size of installation of main switch and MCB DB as required	Kg	150.00	25.00	3750.00
8		Dismantilling of DB & Main DB	Nos	15.00	15.00	225.00
9	a	Providing & fixing of 20 pair tag block in sheet steel encloser including mending good the damages	No.	10.00	600.00	6000.00
	b	Providing & fixing of 50 pair tag block in sheet steel encloser including mending good the damages	No.	5.00	1500.00	7500.00
	c	Providing & fixing of 100 pair tag block in sheet steel encloser including mending good the damages	No.	2.00	2000.00	4000.00
10		Providing & fixing of 32 Amp SPN metal clad socket outlet in sheet steel encloser having with 1 no. 32 Amp SPN MCB and 1 no. 32 Amp metal clad socket complete with connection etc.	Set	40.00	1100.00	44000.00
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 GI pipe upto 40 cm from bottom having with manual locking arrangement and moving arrangement at any angle as approved by E I C.	Set	12.00	350.00	4200.00
12		Providing & making bore well tubewell with 10" dia PVC casing and 6" dia PVC bore of 200' deep alongwith PVC filter and suitable pump complete with digging testing and permissing and all required consuming material complete.	Set	1.00		400000.00
13		Providing & fixing of following size of 3 phase pump 415 volt AC operated pump of having 4" dia suction and 4" dia delivery of kirloster/ equivalent make including all required material and necessories and RCC foundation etc. complete and all consumeable material nothing will be paid against installation of pump.				

Sr. No.	HSR Item No.	Description	Unit	Qty	Rate	Amount
		25 HP	Nos	1.00	80000.00	80000.00
		20 HP	Nos	1.00	80000.00	80000.00
		15 HP	Nos	1.00	80000.00	80000.00
						2038091.10
NBCC charges @ 8%						163047.39
TOTAL						2201138.49
Say Rs. 22.01 lac						

Item No.4.11

To consider and approve the reconstruction of damaged/cracked/tilted compound walls in G-type houses of the campus and accord the administrative approval.

The compound walls of G-type houses constructed at the time of the construction of residential houses about 35-40 years back have got damaged. Some of the compound walls have already fallen and the other have got tilted. The residents of the houses are feeling unsafe because of damaged/tilted/cracked compound walls. So it has become necessary to reconstruct all the damaged/fallen/tilted compound walls to protect the residents.

For this, a proposal for the re-construction of the damaged/cracked/tilted compound walls in the G-type houses of the campus with an estimated amount of Rs.27.99 lacs has been submitted by NBCC.

It is, therefore, requested that the Building & Works Committee may consider and approve the RRCE amounting to Rs. 27.99 lac.

Rough Cost Estimate For Renovation of G Type Flats at NIT Kurukshetra

Sr. No.	DSR Item No.	Description	Qty	Unit	Rate	Amount
1	6.1	Brick work with F P S bricks of class designation 75 in foundation & plinth in:				
	6.1.10	Cement Mortar 1:6 (1 Cement : 6 Fine Sand)	580.00	Cum	1338.75	776475.00
2	6.3	Extra for brick work in superstructure above plinth level upto floor V level	372.00	Cum	206.40	76780.80
3	13.13.2	20 mm cement plaster of mix				
		1:4 (1 Cement : 4 Coarse sand)	2307.00	Sqm	73.90	170487.30
4	13.61	Pointing on tile brick work with cement lime mortar 1:1:3 (1 cement : 1 lime putty: 3 fine sand) with an admixture of red oxide to match the shade of tile brick work:				
	13.61.2	Ruled Pointing	5067.00	Sqm	44.50	225481.50
5	13.79.1	Finishing walls 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 @ 10 Sqm)	7500.00	Sqm	23.10	173250.00
6	15.7.4	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meter lead				
		In cement mortar	580.00	Cum	204.25	118465.00
7	15.8.4	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured)				
		From brick work in cement mortar	290000.00	1000 No	673.90	195431.00
8	15.19	Dismantilling steel work in built up sections without dismantling and stacking within 50 meter lead.	2400.00	Kg	0.40	960.00
9	15.12.1	Dismantilling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 meter lead.				
		of area 3 sq meter & below	60.00	Each	37.95	2277.00

Sr. No.	DSR Item No.	Description	Qty	Unit	Rate	Amount
	15.12.2	of area beyond 3 sq meter	60.00	Each	52.20	3132.00
10	15.13.2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meter lead:				
		of area beyond 3 sq meter	120.00	Each	19.55	2346.00
11	19.7.4	Providing & fixing wash basin with C I / MS brackets , 15mm C P brass pillar tags, Kingston/ Gem/ Techno/ Parko, 32 mm C P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
		Flat back wash basin size 550 x 400 mm with single 15 mm C P brass pillar tap.	90.00	Each	770.10	69309.00
12	10.7.1	Providing & fixing 1 mm thick M S sheet door with frame of 40 x 40 x 6 mm angle iron and 3 mm M S gusset plates at the junctions and corner, 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	70.00	Sqm	986.55	69058.50
13	10.15.1	Providing & Fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of surface as directed by				
		Profile A	230.00	Meter	166.35	38260.50
		Profile C	330.00	Meter	190.80	62964.00

Sr. No.	DSR Item No.	Description	Qty	Unit	Rate	Amount
14	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)	55.00	Cum	1404.70	77258.50
15	9.25.2	Providing & fixing ISI marked flush door shutters non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	120.00	Sqm	825.90	99108.00
16	20.2.2.1	Providing & fixing G I pipe complete with G I fittings and clamps, including cutting and making good the walls etc. (internal work)				
		15 mm dia nominal bore	270.00	Meter	88.35	23854.50
17	20.87.1	Providing & fixing G I union in G I Pipe including cutting and threading the pipe and making long screws etc. complete (new work)				
		15 mm nominal bore	90.00	Each	51.90	4671.00
18	20.4.1	Making connection of G I distribution branch with G I main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete				
		25 to 40 mm nominal bore	90.00	Each	117.75	10597.50
19	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
		Two or more coat on new work	640.00	Sqm	24.25	15520.00
20	13.81.1	Applying priming coat				
		With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard & soft wood)	640.00	Sqm	11.75	7520.00

Sr. No.	DSR Item No.	Description	Qty	Unit	Rate	Amount
21	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	495.00	Cum	93.55	46307.25
22	2.26	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundation etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering , lead upto 50 m and lift upto 1.5 m	330.00	Cum	30.25	9982.50
23	9.222	Providing & fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete)				
		125 mm	120.00	Each	33.05	3966.00
24	9.219	Providing & fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
		250 x 10 mm	120.00	Each	40.45	4854.00
25	9.223	Providing & fixing aluminium hanging floor door stooper ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1858) transparent or dyed to required colour and shade with necessary screws etc. complete. (Twin rubber	60.00	Each	46.60	2796.00
26	14.5.2	Renewing glass panes, with putty and nails wherever necessary	48.00	Sqm	329.50	15816.00
		Glass panes weighing 10.00 Kg/Sqm				
						2306928.85
		Add DSR 19.4 %				447544.20
					A	2754473.05

Sr. No.	DSR Item No.	Description	Qty	Unit	Rate	Amount
27	NS	Supply & fixing M S Handles - 150mm	124.00	Each	10.00	1240.00
28	NS	Supply & fixing M S Tower Bolts - 100 x 10 mm	184.00	Each	16.00	2944.00
29	NS	Supply & fixing M S Aldrop 250 mm	32.00	Each	85.00	2720.00
30	NS	Supply & fixing Aluminium Aldrop	60.00	Each	150.00	9000.00
31	NS	Supply & fixing M S peg stay	60.00	Each	30.00	1800.00
32	NS	Providing & fixing 3" PVC Pipe	135.00	Rmt	60.00	8100.00
33	NS	Providing & fixing 3" Floor trap	90.00	Nos	150.00	13500.00
					B	39304.00
					A + B	2793777.05
		VAT 4%				111751.08
						2905528.13
		Add 8% NBCC Charges				232442.25
		Less Old Bricks				-339293.00
		Total				2798677.38

Say Rs. 27.99 lac

Item No. 4.12

**To consider and approve the RCE for provision of
Swimming Pool at NIT Kurukshetra**

At present, there is no swimming pool at NIT Kurukshetra and for swimming activities/sports, the students of NIT have to go to the KUK or at some other places. Therefore, to promote swimming activities/sports for students, a Swimming Pool has become a necessity for the Institute. The Swimming Pool will serve both the students as well as other residents of NIT Kurukshetra. A rough cost estimate amounting to Rs. 120.10 lac has been submitted by the NBCC for the above work.

It is, therefore, requested that BWC may consider and approve the RCE for provision of Swimming Pool at NIT Kurukshetra.

ROUGH COST ESTIMATE FOR CONSTRUCTION OF SWIMMING POOL AND HEALTH CLUB AT NIT, KURUKSHETRA.				
SR. NO.	DESCRIPTION	AMOUNT		
1	Civil work (building 300 Sqmeter and Swimming Pool 25.0 m x 15.0 m)	4500000.00		
2	Filtration plant, Plumbing, pumps etc.	1000000.00		
3	Fire Fighting	250000.00		
4	Electrical	1000000.00		
5	Site Development Works, Boundary Wall etc.	1000000.00		
6	External Finish	350000.00		
7	Air Conditioning	1000000.00		
8	Interior Works & Equipments (Gym)	1500000.00		
		10600000.00		
	CONTINGENCIES CHARGES @ 3%	318000.00		
		10918000.00		
	ADD 10% NBCC CHARGES	1091800.00		
	TOTAL	12009800.00		
		Say Rs.120.10 lac		

Item No.4.13

Modifications, Alterations and Renovations of Existing Laboratories.

The various laboratories in the Institute are being developed under TEQIP and other schemes. To accommodate new instruments and to utilize the space of the laboratories properly, certain modifications, additions and renovations are required in these labs. It is proposed to keep an amount of Rs. 15.00 lacs for carrying out such works as and when required. This expenditure may be met from the head 'Institute Development Fund'.

The Building & Works Committee is requested to consider and approve the same.

Item No. 4.14

To consider and approve the RCE for Snowcem work on outside walls of residences at NIT Kurukshetra.

In National Institute of Technology Campus, Kurukshetra, the snowcem work has never been done on the outside walls of residences since their construction. Some of these residences are old more than 35 years. The outer walls of residences have different colours as they have been constructed at different times. Snowcem of most of the buildings has faded or discoloured due to environmental conditions. It is proposed to do snowcem work on outside walls of residences at NIT Kurukshetra. A rough cost estimate amounting to Rs. 41.27 lac has been submitted by NBCC for this work.

It is, therefore, requested that the BWC may consider and approve the RCE amounting to Rs. 41.27 lac for snowcem work on outside walls of residences at NIT Kurukshetra.

**ROUGH COST ESTIMATE FOR SNOWCEM WORK OUTSIDE OF RESIDENCES AT
NIT, KURUKSHETRA**

Sr. No	DSR Item No.	Description	QTY	UNIT	RATE	AMOUNT
1-	14.78	Removing white or colour wash by scraping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	86359.00	Sqm	2.10	181353.90
2	13.79	Finishing wall with water proofing cement paint " Snowcem-Plus" of M/s Snowcem India Ltd. or equivalent of required shade:				
		(Two or More Coats applied @ 3.84 Kg/Sqm)	86359.00	Sqm	23.10	1994892.90
3	13.11.	12 mm cement plaster of mix 1:6 (1 Cement : 6 Fine Sand)	9200.00	Sqm	46.60	428720.00
4	13.63.	Pointing on brick work with cement mortor 1:3 (1 Cement : 3 fine sand)				
		Struck pointing	8060.00	Sqm	50.10	403806.00
						3008772.80
		Add 27% on DSR - 2002				812368.66
						3821141.46
		Add 8% NBCC Charges				305691.32
		Total				4126832.77

Say Rs. 41.27 lac

Item No. 4.15**To consider evaluation report in respect of performance of NBCC**

The above item was placed before Building & Works Committee in its 3rd meeting held on 26th April, 2005 vide item no. 3.10. Earlier the B&WC vide item no. 21.3 decided to allow some works to NBCC on trial basis. Again, B&WC vide item no. 2.2 desired that the High Power Committee of the Institute constituted by the director for having quality control check on the on-going works, should also evaluate the performance of NBCC vis-a-vis PWD (B&R). This committee met on April 20, 2005 and submitted the evaluation report as desired by B&WC. The B&WC in its 3rd meeting, vide item no. 3.10, considered the evaluation report in respect of the performance of NBCC submitted by the High Power Committee and approved the same. The B&WC, however, desired that the quantitative evaluation of the performance of NBCC vis-à-vis PWD (B&R) may be made in respect of the deposit works executed by the respective agencies in the Institute. The report of this quantitative evaluation may be placed in the next meeting of Building & Works Committee.

PWD (B&R) did not submit any test report for the works carried out by the organization. However, NBCC has submitted some test reports for the works completed in the Institute. Both organizations have been requested to give all quality control test results for the works executed by them. In the absence of quality control reports from PWD (B&R), the comparison can not be made at this instant.

The matter is placed before the Building & Works Committee for consideration and decision.

