



# **AGENDA FOR 6<sup>TH</sup> MEETING OF BUILDING & WORKS COMMITTEE**

**APRIL 24, 2006**



**NATIONAL INSTITUTE OF TECHNOLOGY  
KURUKSHETRA-136119**

**AGENDA FOR 6<sup>TH</sup> MEETING OF BUILDING & WORKS  
COMMITTEE**

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

**DAY : Monday**

**DATE : 24.4.2006**

**TIME : 11.30 AM**

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

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## CONSTITUTION OF BUILDING & WORKS COMMITTEE

1. Dr. M.N. Bandyopadhyay  
Director,  
National Institute of Technology,  
Kurukshetra. Chairperson
2. Er. M.P Gupta,  
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. Prasad Krishna,  
Advisor(QA), AICTE (BOG nominee on BWC),  
All India Council For Technical Education,  
NBCC Building Eastern Towers,  
IVth Floor, Pragati Vihar,  
Lodhi Road,  
New Delhi- 110003. 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. Dr. M.K.Soni  
Prof. I/C (Estate, Const.& Elect.Mtc.)  
NIT, Kurukshetra. Invitee

9. Sh. Kapil Sharma  
M/S S.K. Integrated Consultant,  
280, Deepali Enclave, Pitam Pura  
Delhi.

Invitee

10. Dr. Diwan Singh  
Dy.Prof. I/C(Estate, Const.& Elect.Mtc.)  
NIT, Kurukshetra

Invitee

11. Sh. R.P.S. Lohchab  
Registrar,  
NIT Kurukshetra

Member-Secretary

**Item No. 6.1**

**To confirm the minutes of the 4<sup>th</sup> & 5<sup>th</sup> meeting of the Building & Works Committee held on 13.12.2005 and 21.02.2006 respectively.**

The minutes of 4<sup>th</sup> & 5<sup>th</sup> meetings of Building & Works Committee held on 13.12.2005 & 21.02.2006 respectively were circulated amongst the members vide No. EO/3708/1127-32/8174-79 dated 20/21.12.05 and EO/3714/1699-04 dated 23.02.2006. respectively. No comments were received from any member. The minutes may, therefore, be confirmed.

**Item No. 6.2**

To report the action taken on the minutes of the 4<sup>th</sup> & 5<sup>th</sup> meeting of the Building & Works Committee (BWC) held on 13.12.2005 & 21.02.2006 respectively.

Item No.	Subject	Decision taken	Action taken
4.1	To consider the minutes of the 3 <sup>rd</sup> meeting of the BWC held on 26.4.2005.	Minutes confirmed	No action is required.
4.2 & 5.1	To report the action taken on the minutes of the 3 <sup>rd</sup> & 4 <sup>th</sup> meeting of the BWC held on 26.4.2005 and 13.12.2005 respectively	The Committee noted the action taken on various decisions taken by BWC.	
		Item (14.3 & 15.2). The Chief Engineer, PWD (B&R) was requested to expedite the installation of separate tube well for PWD colony.	Tube well has not been installed by the PWD as yet and the matter is to be pursued by the Department of Haryana, PWD (B&R).
		Item (19.3 & 4.4) The BWC approved the RCE amounting to Rs. 167.62 lacs for Const. of 6 nos. Lecture Theatres.	Const. of 6 nos. Lecture Theatres is completed and these are in use. Link corridors are also completed & taken over. The work for collapsible & boundary wall of lecture theaters is nearly completion.
		Item (19.4) The BWC approved the RCE amounting to Rs. 221.80 lacs for Constn. of a Gymnasium Hall in the Institute.	Funds awaited



		Item (19.5, 19.6, 2.6 & 4.5) The BWC approved the RRCE amounting to Rs. 158.80 lacs for Const. of Conference hall-cum-retiring, refreshment room for day scholars in the Institute.	Work completed and taken over. The work of PCC approach path and toilets are nearly completion.
		Item (19.10) The BWC approved the RCE amounting to Rs.30.26 lacs for Renovation of Existing Reflection Tank.	Funds transferred to NBCC & tender has been initiated.
		Item (19.12) The BWC approved the RRCE amounting to Rs. 78.56 lacs for Constn. of 20Nos. F-type(600 Sft.) Residences for Class-III Employees.	This proposal has been dropped for the time being in the 4 <sup>th</sup> meeting of BWC held on 13-12-05.
		Item (19.15)The BWC approved the RCE amounting to Rs.18.39 lacs. for the Constn. of Training & Placement Department in the Institute.	Funds awaited.
		Item(19.18 &2.33) The BWC approved the RRCE amounting to Rs.16.86 lacs for carrying out Renovation /Special repairs of Lawns in the Institute.	Rs. 5.00 lacs released in 2003-04. Work is under progress. Balance funds are awaited.

		Item (20.3 & 2.10) The BWC approved the RRCE amounting to Rs.24.28 lacs for PCC approach path to the residences.	Rs. 20.00 lacs released during financial year 2004-05 & 2005-06. Work is under progress.
		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.	Funds awaited.
		Item (20.13) The BWC approved the item for auctioning of existing Gas Plant and to convert it into Canteen/any other purposes.	BOG approved this item. Auction of existing Gas Plant is to be carried out. The auction committee is already constituted by the Director.
		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.	Funds awaited.
		Item (1.6, 2.14 & 4.7) The BWC approved the RRCE amounting to Rs.133.65 lacs for the Const. of External Boundary Wall of the NIT Kurukshetra.	Work is under progress. The amount has been transferred to NBCC.
		Item No. (2.19 & 4.8) The BWC approved the RRCE amounting to Rs.150.37 lacs for Const. of new equipment shop in workshop	Rs. 50.00 lacs released during 2004-05 and Rs. 100.37 lacs during 2005-06. Work is under progress.

		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.	An amount of Rs.15.00 lacs released during 2004-05 and Rs. 3.67 lacs during 2005-06. Work is completed and is to be taken over.
		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.	Work is in progress.
		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.	Rupees 60.00 lacs released during 2005 -2006. A separate item no. 6.3 is being put up with RRCE amounting to Rs. 366.81.
		Item No. (2.35) The BWC approved the RCE amounting to Rs.40.15 lacs for Renovation of Lecture Theatre, Labs. etc	Rs. 22.52 lacs released during 2005-06 by the GOI to renovate 6 nos. Lecture Halls under TEQIP. Work is in progress.
		Item No. (2.36) The BWC approved the RCE amounting to Rs.30.25 lacs for Replacement of water supply & public health disposal pump and distribution network.	Rs. 21.94 lacs released by GOI under TEQIP. Work is in progress.

		Item No.(2.37) The BWC approved the RCE amounting to Rs.20.03 lacs for Renovation of electrical fittings in workshop.	The GOI released an amount of Rs. 19.67 lacs. under TEQIP. Work is in progress.
		Item No. (2.38 & 4.10) The BWC approved the RRCE amounting to Rs.22.01 lacs for Repair/ modification of Instructional building.	The GOI released an amount of Rs. 22.01 lacs. under TEQIP. Work is in progress.
		Item No. (2.40) The BWC approved the RCE amounting to Rs. 8.00 lacs for Provision of geysers and exhaust fans in hostel toilets.	Fund awaited
		Item No. (2.41) The BWC approved the RCE amounting to Rs.302.00 lacs for installation of HT/LT sub station.	Fund awaited
		Item No. (2.42) The BWC approved the RCE amounting to Rs.154.00 lacs for installation of DG sets.	Fund awaited
		Item No. (17.7, 19.7 2.9 & 3.3) The BWC approved the RRCE amounting to Rs. 149.91 lacs for the Const. of 7 nos. new labs in Mech. Engg. Deptt. and 2 nos.labs. in Comp.& EcE Deptt. during 2005-2006 to clear the liabilities.	Funds received to clear the liabilities during financial year 2005-06 and work is completed and taken over.

		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 completed and is to be taken over.
		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 is completed and taken over.
		Item No. (3.6) 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.
		Item No. (3.7) 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.	Work is completed and taken over.

		Item No. (3.8) 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 1st year hostel.	Funds amounting to Rs.49.00 lacs released during 2005-06. Work is under progress.
		Item No. (3.9) 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.
4.3	To consider RCE for provision of glazed tiles in Hostels, Guest house, Residences (Toilets and Kitchens) and Instructional buildings (Toilets).	The Building & Works committee approved the RCE amounting to Rs. 85.44 lacs for glazed tiles in Guest House and Residence (Toilets and Kitchens)	Fund awaited.
4.4	To consider and approve construction of 6 Nos. Lecture Theatres.	The Building & works committee approved the RCE of Rs. 10.26 lacs for providing two collapsible gates and boundary wall around the lecture theatre areas.	An amount of Rs. 10.19 lacs released during 2005-06. Work is in progress.
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.	The Building & works Committee approved the RRCE amounting to Rs. 3.23 lacs for PCC approach path from hostel and institutional side and provision of 2 nos. toilets.	Funds are available. Work is in Progress.

4.6	To consider and approve the final settlement of liabilities against the work for PCC approach path to the residences.	The Building & works committee approved the clearing of final liabilities of Rs. 0.74 lacs for PCC approach path to the residences. The GOI will be requested to release the said amount of Rs. 0.74 lacs.	Fund awaited
4.7	To consider and approve the RRCE for Construction of External Boundary wall of the National Institute of Technology, Kurukshetra.	The Building & works committee approved the RRCE of Rs. 133.6 lacs for Construction of External Boundary Wall	Funds released. Work is in progress
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 RRCE amounting to Rs. 150.37 lacs.	An amount of Rs. 150.37 lacs released during 2005-06 (A separate item vide item no. 6.4 is being put up with RRCE amounting to Rs.175.95 lacs).
4.9	To consider and approve the RCE for renovation of Old Library Building at NIT Kurukshetra.	The Building & Works Committee approved the RCE amounting to Rs. 21.97 lacs from TEQIP.	An amount of Rs. 21.97 lacs released during 2005-06 under TEQIP . Work is in progress.

4.10	To consider and approve the revised rough cost estimate for repair/ modification of the instructional building at NIT Kurukshetra.	The Building & Works committee approved the RRCE amounting to Rs. 22.01 lacs.	An amount of Rs. 22.01 lacs released during 2005-06 under TEQIP. Work is in progress.
✓ 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 Building & Works Committee approved the RRCE amounting to Rs. 27.99 lacs.	Funds awaited.
4.12	To consider and approve the RCE for provision of Swimming Pool at NIT Kurukshetra.	The Building & works committee approved the RCE amounting to Rs. 120.10 lacs	Funds awaited. A separate item no.6.5 is being put up.
4.13	Modifications, Alterations and renovations of Existing Laboratories.	The Building & works committee approved Rs. 15.00 lacs for carrying out modifications, alterations and renovations of existing laboratories.	Expenditure to be met from the "Institute Development Fund".
4.14	To consider and approve the RCE for Snowcem work on outside walls of residences at NIT Kurukshetra.	The Building & works committee approved the RCE amounting to Rs. 41.27 lacs for Snowcem work on outside walls of residences.	Funds awaited



4.15	To consider evaluation report in respect of performance of NBCC.	For the time being, the present arrangement of getting the work done from the NBCC may be continued. The performance of both the agencies i.e. NBCC and the State PWD (B&R) may be reviewed. The whole matter may be then put up to the Building & works committee in its next meeting.	No response was received from state PWD (B&R). Hence the matter could not be reviewed.
4.16	To consider inviting the Professor Incharge, Electrical Maintenance and Deputy Professor Incharge, Estate & Construction (This agenda item was taken up at beginning of the discussions).	The Building & works committee approved the proposal of inviting the Professor Incharge, Electrical Maintenance and Deputy Professor Incharge, Estate & Construction as invitee in the BWC meetings.	
4.17	To consider and approve the project report on HT/LT installation and DG sets in the Institute.	The Building & Works Committee approved the project report for the installation of HT/LT sub-stations and DG sets. It was desired that matter relating to man-power and requirement of non-plan funds be placed before the Board of Governors in its next meeting.	Funds awaited.

4.18	To consider the estimates for special Repair, Renovation and miscellaneous works relating to Electrical Maintenance in the Institute.	The Building & works committee approved the estimate amounting to Rs. 10.00 lacs for special repair, renovation and miscellaneous works relating to Electrical Maintenance in the Institute during the financial year 2006-07	Funds awaited.
5.2	To consider and approve the rough cost estimate for Extension of Mechanical Engg. Block at NIT Kurukshetra.	The Building & works committee approved the rough cost estimate amounting to Rs. 21.69 lacs for Extension of Mechanical Engg. Block alongwith NBCC charges 8% i.e. Rs. 1.74 lac to be met from institute Development Fund.	An amount of Rs. 21.69 lacs has been released under TEQIP and an amount of Rs. 1.74 lacs. released from Institute Development Fund during 2005-06. Work is in Progress.
5.3	To consider and approve the rough cost estimate for providing facilities viz. False Ceiling, Air-conditioning etc. of Computing & Networking at NIT, Kurukshetra.	The Building & works committee approved the rough cost estimate amounting to Rs. 22.47 lacs for this work alongwith NBCC charges @ 8% i.e. Rs. 1.80 lacs to be met from Institute Development Fund,	An amount of Rs. 22.47 lacs has been released under TEQIP and an amount of Rs. 1.80 lacs. has been released from Institute Development Fund during 2005-06. Work is in Progress.
5.4	To consider and approve the rough cost estimate for Renovation of Administrative Block at NIT Kurukshetra.	The Building & works committee approved the rough cost estimate amounting to Rs. 19.44 lacs for renovation of Administrative Block alongwith @ 8% i.e. Rs. 1.55 lacs to be met from Institute Development Fund.	An amount of Rs. 19.44 lacs has been released under TEQIP and an amount of Rs. 1.55 lacs. has been released from Institute Development Fund during 2005-06. Work is in Progress.

5.5	To consider and approve the rough cost estimate for Special Repair of water channel at roofs in workshop at NIT Kurukshetra.	The Building & works committee approved the rough cost estimate amounting to Rs. 14.79 lacs for special repair of water channel at roofs in workshop alongwith NBCC charges @ 8% i.e. Rs.1.80 lacs to be met from Institute Development.	An amount of Rs. 14.79 lacs has been released under TEQIP and an amount of Rs. 1.18 lacs has been released from Institute Development Fund during 2005-06. Work is in Progress
5.6	To consider and approve the rough cost estimate for Renovation of Electrical Lab. & Conference room (one no.) at NIT Kurukshetra	The Building & works committee approved the rough cost estimate amounting to Rs. 2.83 lacs for renovation of Electrical Lab. & Conference Room (one no) alongwith NBCC charges @ 8% i.e. Rs. 0.23 lacs to be met from Institute Development Fund.	An amount of Rs. 2.83 lacs has been released under TEQIP and an amount of Rs. 0.23 lacs has been released from Institute Development Fund during 2005-06. Work is in Progress.

**Item No.6.3**

**To consider and approve the RRCE for Construction of New Administrative Block.**

The Building and Works Committee approved the RCE amounting Rs. 121.80 lacs vide item no. (2.25) in its 2<sup>nd</sup> meeting held on August 27, 2004 which has also been approved by the Chairman, BOG in anticipation. This estimate is one and a half year old. Moreover, considering the actual requirements and design of the space requirements, RRCE amounting to Rs. 366.81 lacs has been submitted by NBCC.

It is, therefore requested that Building & Works Committee may consider and approve the RRCE amounting to Rs. 366.81 lacs for Construction of New Administrative Block.

## Construction of New Administrative Block at NIT, KKR

Preliminary Cost Estimate Based on CPWD PAR'92

### General Abstract of Cost

Sl No.	Description	Amount (in Rs)
1	Civil Works	21904197.30
2	Fire Fighting	1987650.00
3	Plumbing	3550442.10
4	Electrical	4433234.53
5	External Finish	500000.00
	<b>Total</b>	<b>32375523.93</b>
	Add Contingency @ 3% on above	971265.72
	<b>Total</b>	<b>33346789.65</b>
	Add NBCC Charges @ 10%	3334678.96
	<b>Grand Total</b>	<b>36681468.61</b>

Sd/-  
Project Manager  
NBCC Ltd.

## SUMMARY OF COSTS

SI No.	Description	% Escalation	Amount (in Rs)
<b>1</b>	<b>Civil</b>		9822510.00
	Add Cost Index Escalation @ 123%	123%	12081687.30
	<b>Total</b>		<b>21904197.30</b>
<b>2</b>	<b>Fire Fighting</b>		555000.00
	Add Cost Index Escalation @ 123%	123%	682650.00
	Extra Cost for works not included in PAR		750000.00
	<b>Total</b>		<b>1987650.00</b>
<b>3</b>	<b>Plumbing</b>		1592126.50
	Add Cost Index Escalation @ 123%	123%	1958315.60
	<b>Total</b>		<b>3550442.10</b>
<b>4</b>	<b>Electrical</b>		1718939.25
	Add Cost Index Escalation @ 123%	123%	2114295.28
	Extra Cost for works not included in PAR		600000.00
	<b>Total</b>		<b>4433234.53</b>
<b>5</b>	<b>External Finish</b>		500000.00
	<b>Total</b>		<b>500000.00</b>
	<b>Grand Total</b>		<b>32375523.92</b>

## Preliminary Cost Estimate Based on PAR

Sl No.	Description	Area (in Sq Mtrs)	Rate in Rs.)	Amount (in Rs)	Reference
<b>1</b>	<b>Civil Works</b>				
<b>1.1</b>	RCC Framed Structures				
<b>1.1.1</b>	Main Building (Height 3.6m)				
<b>A</b>	<b>Total</b>	3,000.00	2,920.00	<b>8,760,000.00</b>	PAR 92/1.1.1
<b>1.2</b>	Extra For				
<b>1.2.1</b>	Extra for Additional Height of 0.25 Mtrs over 3.35 m 0.25/0.3 x 125 = 104.17	3,000.00	104.17	312,510.00	PAR 92/1.2.3
<b>1.2.2</b>	Resisting Earthquake Forces	3,000.00	250.00	750,000.00	PAR 92/1.2.8
<b>B</b>	<b>Total</b>			<b>1,062,510.00</b>	
	<b>Total Cost of Civil Works as per PAR (A + B)</b>			<b>9,822,510.00</b>	
<b>2</b>	<b>Fire Fighting</b>				
<b>2.0</b>	Fire Fighting Works	3,000.00	185.00	555,000.00	PAR 92/1.2.14
<b>2.1</b>	Extra for works not included in PAR				
	Fire Alarm System	3,000.00	250.00	750,000.00	Mkt Rate
	Fire Extinguishers				Mkt Rate
	Fire Pumps				Mkt Rate
	<b>Total</b>			<b>1,305,000.00</b>	
<b>3</b>	<b>Services</b>				
<b>3.1</b>	Plumbing				
	Internal Water Supply & Sanitary				
<b>3.1.1</b>	Installations		10% of Civil	982,251.00	PAR 92/3.1
<b>3.1.2</b>	External Services Connection		5% of Civil	491,125.50	PAR 92/3.2
	<b>Total</b>			<b>1,473,376.50</b>	
<b>3.1.3</b>	Over Head Tank without Staging				
<b>a</b>	Domestic & Fire Tank (Capacity in Ltrs)	25,000.00	4.75	118,750.00	PAR 92/4.1
	<b>Total</b>			<b>118,750.00</b>	





**Item No 6.4 : To consider and approve the RRCE for Construction of New Equipment shop in workshop at NIT Kurukshetra.**

The Building and works committee approved the RRCE for Construction of New Equipment shop in Workshop vide item no. 2.19 amounting to Rs. 78.00 lacs in its 2<sup>nd</sup> meeting held on August 27, 2004 and RRCE amounting to Rs. 150.37 lacs in its 4<sup>th</sup> meeting held on December 12, 2005.

All the already existing building has been connected through line corridors. To utilize the building effectively and properly, link corridor and parking place is must required. For providing the link corridor and parking place in the above building, NBCC has submitted RRCE amounting to Rs. 175.10 lacs.

It is therefore requested that BWC may consider and approve the RRCE amounting to Rs. 175.10 lacs for construction of New Equipment Shop in workshop at NIT Kurukshetra.

**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	1773.35	CUM	105.80	187620.43
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.	885.73	CUM	34.96	30965.12
2.28	Supply & filling in plinth with jamuna sand under floors including, watering ramming consolidating and dressing complete.	652.93	CUM	244.72	159785.03
2.35.1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ lindane emulsifiable concentrate 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).	373.09	Cum	1522.60	568066.83
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 kerosene 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 Reinforcedment cement concrete in raft, footing, bases of coloumns 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 Reinforcedment cement concrete in wall (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, coloumns, 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).	335.00	Cum	2703.88	905799.80
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).	355.00	Cum	2438.00	865490.00
	Extra for 1:1.5:3 instade of 1:2:4	610.05	Cum	230.00	140311.50
5.13	Reinforcement Cement Concrete work in vertical & horizontal fins individually or forming box louvers, facia and eave's 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.	1243.06	Sqm	127.88	158962.51
5.14.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	866.52	Sqm	101.20	87691.82
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.	106000.00	KG	34.96	3705760.00
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).	772.49	Cum	1591.60	1229495.08
6.3	Extra for brick work in super-structure above plinth level upto floor V level.	681.15	Cum	237.36	161677.76
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.	2046.26	KG	46.92	96010.52
9.119.2	Providing and fixing ISI marked oxidised M S tower bolt black finish, (Barrel Type) with necessary screws etc. completed.				
	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. completed.				
	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. completed.				
	115mm	146.00	Each	11.04	1611.84
9.127.A.3	Providing and fixing ISI marked oxidised M S casement stays ( straight peg type ) with necessary screws etc. completed.				
	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. completed.				
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 high ) 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 green 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 required 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 botton 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)	1314.17	sqm	46.00	60451.82
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	450.42	sqm	294.40	132603.65
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.	4296.18	sqm	20.24	86954.68
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.	4296.18	sqm	0.92	3952.49
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
<b>20.77</b>	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
<b>20.87</b>	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
<b>20.91</b>	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
<b>20.90.</b>	Providing and fixing C.P brass bib cock of approved quality.				
	15mm nominal bore.	6.00	Each	188.60	1131.60
<b>20.94</b>	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
<b>20.93</b>	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
<b>21.1</b>	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
<b>8.03</b>	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
<b>a)</b>	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) polyethyelene 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				
12.78.1	75mm dia	15.00	meter	100.00	1500.00
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
8.2.6	Providing & fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locations required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing,				
	Granite Black	20.00	Sqm	3491.44	69828.80
8.3.2	Extra for providing edge moulding to 18mm thick marble stone counters, vanities etc. over Item no. 8.2 Including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-charge.				
	Granite Work	60.00	Meter	119.48	7168.80
11.17.6	40mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28mm thick cement concrete 1:2:4 ( cement: 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10 mm nominal size laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 2 marble chips) by volume.				
	Ordinary cement without any pigment	180.00	Sqm	252.73	45491.40



D.S.R. Item No	Description Of Item	Qty.	Unit	Rate	Amount
	<b>NON-SCHEDULE ITEMS</b>				
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
3	Providing FRP sheet over structural steel frame 3 mm thickness	80.00	Sqm	1000.00	80000.00
4	Development of green belt as per instruction of Engineer in charge including removal and staking of unserviceable material within 50m and then supplying good earth at site and mixing of manure i/c supply of earth & manure at site and grassing with doaf grass.	243.00	Sqm	200.00	48600.00
5	Making grooves of 15 x 25 CM in CC double cut with concrete cutter and removing the CC in between and cleaning the grooves making good for filling hot sealing compound	1000.00	Sqm	35.00	35000.00
	<b>TOTAL - A</b>				<b>13437418.84</b>

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
<b>ELECTRICAL WORK</b>						
		<b>SUB-HEAD I - POINT WIRING</b>				
		(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)					
h)	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)				
		<b>SUB-HEAD II</b>				
		<b>SUPPLY &amp; ERECTION OF LIGHTING FIXTURES &amp; FANS</b>				
1)	MR	Supply of the following flourescent tube light 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
	ITCFDRCU	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
	ITCFFDRCU	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
		<b>SUB-HEAD III</b>				
		<b>MDB'S, DISTRIBUTION BOARDS &amp; CABLES</b>				
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.		<b>Main Panel (Length 1700mm, Depth 400mm &amp; Height 2100mm)</b>				
		<b>Incoming</b>				
		1 No. 630 amp 4P MCCB of 25 KA service breaking capacity and 630 amp Trip setting with heavy duty solid neutral link.				
		<b>Bus Bar</b>				
		1 No. 800 amp TPN Aluminium Bus bar of suitable length.				
		<b>Outgoing</b>				

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		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.				
		<b>MDB &amp; EMDB (A1 TO A7) described as above</b>	Set	1.00	226215.00	<b>226215.00</b>
b.		<b>Panel Emergency</b>				
		<b>Incoming</b>				
		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.				
		<b>Bus Bar</b>				
		1 No. 300 amp TPN Aluminium Bus bar of suitable length.				
		<b>Outgoing</b>				
		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	<b>83160.00</b>
c.		<b>PDB -Machine panel for workshop</b>				
		<b>Incoming</b>				
		1 No. 200 amp 4P MCCB of 25 KA service breaking capacity with electronic release.				
		<b>Bus Bar</b>				
		1 No. 250 amp TPN Aluminium Bus bar of suitable length.				
		<b>Outgoing</b>				
		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	<b>186733.80</b>
d.		<b>CAPACITOR Panel</b>				
		<b>Incoming</b>				
		1 No. 250 amp 4P MCCB of 25 KA service breaking capacity with electronic release.				
		<b>Bus Bar</b>				
		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	<b>129195.00</b>
		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)	1816	63 amps	Each	15.00	2009.70	30145.50
	(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 include				
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)		<b>Race way for machines</b>				
	(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
		<b>SUB-HEAD IV</b>				
		<b>EARTHING &amp; LOOP EARTHING</b>				
		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
		<b>SUB-HEAD V</b>				
		<b>TELEPHONE WIRING AND CONDUITING</b>				
		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)					
		<b>CONDUITING FOR COMPUTER NETWORKING</b>				
6)						
a)		Supply and fixing of following sizes of MS conduit alongwith 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

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		<b>SUB-HEAD VI</b>				
		<b>FIRE DETECTION AND ALARM SYSTEM</b>				
		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	<b>693.00</b>
		Supply, installation, testing and commissioning of Fire Alarm Hooter having and audible range of 25 meters.				
2	MR		Nos	1.00	693.00	<b>693.00</b>
		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	<b>27720.00</b>
		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	<b>39600.00</b>
b)	MR	Heat Detector	Nos	4.00	1782.00	<b>7128.00</b>
c)	MR	Response Indicator	Nos	10.00	198.00	<b>1980.00</b>
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	<b>14850.00</b>
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	<b>8415.00</b>
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 dia				
	702		RM	150.00	59.40	<b>8910.00</b>
b)		20 mm dia GI Flexible:	RM	25.00	49.50	<b>1237.50</b>

Sl. No.	SR Item No.	Description	Unit	Qty.	Rate in Rs.	Amount in Rs.
		<b>SUB-HEAD VII</b>				
		<b>EPABX</b>				
		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
		<b>TOTAL - B</b>				2017382.40
		<b>TOTAL A + B</b>				15454801.24
		<b>Contingency Charges 3%</b>				463644.04
						15918445.28
		<b>NBCC CHARGES 10%</b>				1591844.53
		<b>TOTAL A + B</b>				17510289.80

Sd/  
Project Manager  
NBCC Ltd.

**Item No. 6.5 : To consider and approve the RCE for provision of Community Scooter Stand for E & F type houses at NIT, Kurukshetra.**

There is provision of garages in all A to D type houses. But in the lower category houses i.e. E & F type houses, there is no space for vehicles even for two wheelers causing inconvenience to them. It is proposed that a community two wheelers stand may be approved for E & F type houses so that they may have a proper space for parking two wheelers. This is also required for security of vehicles. For this work, NBCC has submitted RCE amounting to Rs. 15.62 lacs.

It is therefore requested that BWC may consider and approve the RCE amounting to Rs. 15.62 lacs for provision of Community Scooter Stand for E & F type houses.

# ROUGH COST ESTIMATE FOR CONSTRUCTION OF COMMUNITY SCOOTER STAND FOR E & F TYPE HOUSES AT NIT, KURUKSHETRA.

Preliminary Cost Estimate Based on CPWD PAR'92

## General Abstract of Cost

Sl No.	Description	Amount (in Rs)
1	Civil Works	1404592.26
	<b>Total</b>	<b>1404592.26</b>
	Add Contingency @ 3% on above	42137.77
	<b>Total</b>	<b>1446730.03</b>
	Add NBCC Charges @ 8%	115738.40
	<b>Grand Total</b>	<b>1562468.43</b>

Sd/-  
N. B. C. C. Ltd.  
(A Govt. of India Enterprise)  
N. I. T. Works  
MAIN CAFE HOUSE  
(GOL - CANTEN)  
REC-CAMPUS  
KURUKSHETRA-136 110

**RCE FOR CONSTRUCTION OF COMMUNITY SCOOTER STAND FOR E AND F TYPE  
HOUSES**

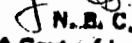
<b>SUMMARY OF COSTS</b>			
<b>Sl No.</b>	<b>Description</b>	<b>% Escalation</b>	<b>Amount (in Rs)</b>
<b>1</b>	<b>Civil</b>		629862.00
	Add Cost Index Escalation @ 123%	123%	774730.26
	<b>Total</b>		<b>1404592.26</b>
	<b>Grand Total</b>		<b>1404592.26</b>

N. B. C. C. Ltd.  
 (A Govt. of India Enterprise)  
 N. I. T. Works  
 MAIN CAMP HOUSE  
 (GOL - CANTEN)  
 REC-CAMPUS  
 KURUKSHETRA-136 110

**RCE FOR CONSTRUCTION OF COMMUNITY SCOOTER STAND FOR E AND F TYPE  
HOUSES**

**Preliminary Cost Estimate Based on PAR**

Sl No.	Description	Area (in Sq Mtrs)	Rate in Rs.)	Amount (in Rs)	Reference
	<b>Civil Works</b>				
<b>1.1</b>	Load bearing structure				
<b>A</b>	<b>Total</b>	278.70	2,010.00	<b>560187.00</b>	PAR 92/2.1
<b>1.2.2</b>	Resisting Earthquake Forces	278.70	250.00	69675.00	PAR 92/1.2.8
<b>B</b>	<b>Total</b>			<b>69675.00</b>	
	<b>Total Cost of Civil Works as per PAR</b>			<b>629862.00</b>	

  
**N. B. C. C. Ltd.**  
 (A Govt. of India Enterprise)  
 N. I. T. Works  
 MAIN CAFE HOUSE  
 (GOL - CANTEN)  
 REC-CAMPUS  
 KURUKSHETRA-136 110



**Item No.6.6 : To consider and approve the RCE for provision of store in G-type houses at NIT, Kurukshetra.**

There is provision of stores in all type of houses i.e. A to F type houses. But in the lower category houses i.e. G type houses, there is no space for store causing inconvenience to them. It is proposed that provision of stores may be approved for G type houses so that they may have a proper space for storing different items. For this work, NBCC has submitted RCE amounting to Rs. 28.48 lacs.

It is therefore requested that BWC may consider and approve the RCE amounting to Rs. 28.48 lacs for provision of store in G- type houses.

# ROUGH COST ESTIMATE FOR STORES IN G TYPE HOUSES AT NIT KURUKSHETRA

Preliminary Cost Estimate Based on CPWD PAR'92

## General Abstract of Cost

SI No.	Description	Amount (in Rs)
1	Civil Works	2275419.30
2	Electrical	284427.41
	<b>Total</b>	<b>2559846.71</b>
	Add Contingency @ 3% on above	76795.40
	<b>Total</b>	<b>2636642.12</b>
	Add NBCC Charges @ 8%	210931.37
	<b>Grand Total</b>	<b>2847573.49</b>

Sd/-  
Project Manager  
NBCC Ltd.

# RCE FOR STORES IN G TYPE HOUSES

SUMMARY OF COSTS			
SI No.	Description	% Escalation	Amount (in Rs)
1	Civil		1020367.40
	Add Cost Index Esclation @ 123%	123%	1255051.90
	<b>Total</b>		<b>2275419.30</b>
2	Electrical		127545.93
	Add Cost Index Esclation @ 123%	123%	156881.49
	<b>Total</b>		<b>284427.41</b>
	<b>Grand Total</b>		<b>2559846.71</b>

# RCE FOR STORES IN G TYPE HOUSES

## Preliminary Cost Estimate Based on PAR

Sl No.	Description	Area (in Sq Mtrs)	Rate in Rs.)	Amount (in Rs)	Reference
	<b>Civil Works</b>				
1.1	Load Bearing Structure				
A	<b>Total</b>	451.49	2,010.00	<b>907494.90</b>	PAR 92/2.1
1.2.2	Resisting Earthquake Forces	451.49	250.00	112872.50	PAR 92/1.2.8
B	<b>Total</b>			<b>112872.50</b>	
	<b>Total Cost of Civil Works as per PAR</b>			<b>1020367.40</b>	
	<b>Electrical</b>				
3.1	Internal electrical Installations		12.5 % of Civil	127545.93	PAR 92/3.3
	<b>Total</b>			<b>127545.93</b>	

Sd/-

Project Manager  
NBCC Ltd.

**Item No. 6.7 : To consider and approve the RCE for Renovation/Special Repair of Old Health Centre Building at NIT, Kurukshetra.**

The old building of the Health Centre of the Institute was constructed more than 30 years ago. This is now in a very bad and non-hygienic condition. To make the Health Centre non-hygienic and in good condition it is proposed that the same may be renovated. The NBCC has submitted RCE amounting to Rs. 50.01 lacs for the above work.


It is therefore requested that BWC may consider and approve the RCE amounting to Rs. 50.01 lacs for Renovation/Special Repair of Old Health Centre Building.

**RCE FOR RENOVATION/ SPECIAL REPAIR OF OLD HEALTH CENTRE  
BUILDING AT NIT, KURUKSHETRA**

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	8.2	Providing & fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortor 1:4 (1 Cement : 4 Coarse Sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels.				
		Granite Grey	Sqm	10.00	1904.90	<b>19049.00</b>
2	11.78.2	Providing & laying polished porcelain floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 1% and flexural strength not less than 30N/sqmm, in all colours & shades, laid on 20 mm thick cement mortor/adhesive/tile fixer 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete				
		Size of Tile 60 x 60 CM (Approx)	Sqm	218.00	1203.95	<b>262461.10</b>
3	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.2	1:4 (1 Cement : 4 Coarse sand)	Sqm	60.00	60.60	<b>3636.00</b>
4	13.40 A	Providing & applying plaster of paries putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	50.00	33.90	<b>1695.00</b>
5	13.92	Painting with plastic emulsion paint of approved brand & manufacture to give an even shade.				
		Two or more coat on New Work	Sqm	40.00	30.80	<b>1232.00</b>

**RCE FOR RENOVATION/ SPECIAL REPAIR OF OLD HEALTH CENTRE  
BUILDING AT NIT, KURUKSHETRA**

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	13.94.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give and even shade:				
		Two or more coat on New Work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	30.00	37.35	<b>1120.50</b>
7	14.78	Removing white wash or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	20.00	2.10	<b>42.00</b>
14	15.7.4	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meter lead				
		In Cement Mortar	Cum	5.00	204.25	<b>1021.25</b>
						<b>290256.85</b>
<b>ADD DSR PREMIUM 34.4%</b>						99848.36
<b>A</b>						<b>390105.21</b>
1		Public Health Works			<b>L S</b>	60000.00
<b>B</b>						<b>60000.00</b>
<b>TOTAL A + B</b>						<b>450105.21</b>
<b>Add 3% Contingency</b>						13503.16
						<b>463608.36</b>
<b>ADD NBCC CHARGES 8%</b>						37088.67
<b>TOTAL</b>						<b>500697.03</b>

  
**N. B. C. Ltd.**  
 (A Govt. of India Enterprise)  
 N. I. T. Works  
 MAIN CAFE HOUSE  
 (GOL - CANTEN)  
 REC-CAMPUS  
 KURUKSHETRA-136 110

**Item No.6.8 : To consider and approve the RCE for Premix Carpeting at National Institute of Technology, Kurukshetra.**

In NIT campus, there are two types of roads- main roads and link roads. The main roads are re-carpeted over two years back and are in good position whereas the link roads has not been repaired for the last so many years. The link roads are not in a proper condition and these roads need re-surfacing with bitumen premix. It is proposed to provide premix over surfaces on the link roads. The NBCC has submitted RCE amounting to Rs. 13.22 lacs for this work.

It is therefore requested that BWC may consider and approve the RCE amounting to Rs. 13.22 lacs for Premix Carpeting at NIT Kurukshetra.



# HIGH COST ESTIMATE FOR PREMIX CARPETING AT NIT, KURUKSHETRA

DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1 17.47	Providing & applying tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications.				
17.47.2	On Bituminous surface @ 0.50 Kg / Sqm	Sqm	14640.00	8.45	123708.00
2 17.49	2.5 CM premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 Kg and 56 Kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately)				
17.49.2	With paving Asphalt 80/100 heated and then mixed with solvent at the rate of 70 grams per KG of asphalt	Sqm	14640.00	51.95	760548.00
					884256.00
ADD DSR PREMIUM 34.4%					304184.06
					1188440.06
Add 3% Contingency					35653.20
					1224093.27
ADD NBCC CHARGES 8%					97927.46
TOTAL					1322020.73

sd/-  
N. B. C. Enterprises

**Item No. 6.9 : To consider and approve the RCE for provision of air-conditioning, false ceiling and carpeting etc. in new lab.**

A new lab has been constructed in Electronics & Communication Engineering Department for which the Ministry of Human Resource Development is providing the equipments at free of cost. They have asked to arrange a proper space for keeping these equipments. In view of that, the following works are suggested in this lab i.e. (i) Air-Conditioning (ii) False Ceiling and (iii) carpeting. The NBCC has submitted RCE amounting to Rs. 4.24 lacs for the above work.

It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs. 4.24 lacs for provision of air-conditioning, false ceiling and carpeting in new lab.

**ROUGH COST ESTIMATE FOR PROVISION OF AIR CONDITIONING & FALSE CEILING ETC. IN VLSI DESIGN LAB IN EC & CE DEPTT. AT NIT, KURUKSHETRA**

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1	Air Conditioning for (8 x 1.5 Ton AC)	160000.00
2	False Ceiling (For 1900 Sq feet @ 70/- per Sq feet)	133000.00
3	Vinyl Flooring (For 1900 Sq feet @ 20/- per Sq feet)	38000.00
4	Electrical Work L. S.	20000.00
5	LAN Etc. L S	30000.00
		<b>381000.00</b>
	CONTINGENCIES CHARGES @ 3%	11430.00
		<b>392430.00</b>
	ADD 8% NBCC CHARGES	31394.40
	<b>TOTAL</b>	<b>423824.40</b>

Sd/-  
Project Manager  
NBCC Ltd.


**Item No.6.10 : To consider and approve the RCE for provision of two nos. Institute Main Gates.**

Regional Engineering College, Kurukshetra was established in 1963 and its campus was established in 1965. We have a common entrance from Kurukshetra University, Kurukshetra into the campus of REC Kurukshetra (Now NIT, Kurukshetra). Now, the Regional Engineering College, Kurukshetra has been converted into National Institute of Technology, Kurukshetra having Deemed University status and completely funded by Ministry of Human Resource Development. After the conversion of REC Kurukshetra into NIT Kurukshetra, the infrastructure of the Institute has also been increased. The security of the Institute has also become important during the recent development and changes in the society. At present, there is no independent entrance gate of the Institute. It is, therefore, proposed to provide two nos. Institute Main Gates. For this work, the NBCC has submitted RCE amounting to Rs. 26.95 lacs.

It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs. 26.95 lacs for provision of two nos. Institute Main Gates.

**ROUGH COST ESTIMATE FOR PROVISION OF 2 NOS INSTITUTE MAIN GATE AT NIT, KURUKSHETRA**

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
<b>1</b>	CIVIL WORK ( RCC WORK, GATE PILLAR, APPROCH ROAD, GRANITE WORK , SECURITY ROOM ETC.)	945000.00
<b>2</b>	ELECTRICAL WORK (INTERNAL & EXTERNAL WORK) L.S.	678000.00
<b>3</b>	STRUCTURAL STEEL	756000.00
		<b>2379000.00</b>
	CONTINGENCIES CHARGES @ 3%	71370.00
		<b>2450370.00</b>
	ADD 10% NBCC CHARGES	245037.00
	<b>TOTAL</b>	<b>2695407.00</b>

  
**N. B. C. Ltd.**  
 (A Govt. of India Enterprise)  
 N. I. T. Works  
 MAIN CAFE HOUSE  
 (GOL — CANTEN)  
 REC-CAMPUS  
 KURUKSHETRA-136 119

26.6.2016

**Item No. 6.11 : To consider and approve RCE for provision of Badminton Hall in the Institute.**

There is long standing demand of the students to provide an indoor badminton hall in the Institute so that the students can play even in adverse conditions. To promote the sports activities in the Institute, it is proposed to provide badminton hall in the Institute. For this work, the NBCC has submitted RCE amounting to Rs. 40.02 lacs.

It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs.40.02 lacs for provision of badminton hall.

# ROUGH COST ESTIMATE FOR PROVISION OF BADMINTON HALL 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	300.00	Cum	93.55	28065.00
2	2.28	Supply & filling in plinth with jamuna sand under floors including, watering ramming consolidating and dressing complete.	100.00	Cum	213.30	21330.00
3	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 ( 1cement : 4 Coarse sand : 8 graded stone aggregate 40mm nominal size).	120.00	Cum	1404.70	168564.00
4	4.24	Providing & laying Damp proof course 40 mm thick with cement concrete 1:2:4 ( 1 cement : 2coarse sand: 4 graded stone aggregate 12.5mm nominal size).	40.00	Sqm	84.60	3384.00

A. B. C. O. Ltd  
 Govt. of India Enterprise  
 N. I. T. Works  
 MAIN CAFE HOUSE  
 (GOL - CANTEN)  
 REC-CAMPUS  
 KURUKSHETRA-136 118

Sr. no.	DSR Item	Description	QTY	UNIT	RATE	AMOUNT
5	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).	85.00	Cum	2351.35	199864.75
7	5.29	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position and binding all complete.				
	5.29.3	TMT bars.	10800.00	KG	21.85	235980.00
8	6.1.1	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)	350.00	Cum	1384.50	484575.00
9	6.24	Extra for Brick Masonry with tile bricks of class designation 100 in superstructure from plinth level upto floor five level	290.00	Cum	220.90	64061.00
	10.4	Structural steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	13000.00	KG		20450.00



Sr. no.	DSR Item	Description	QTY	UNIT	RATE	AMOUNT
10	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	370.00	meter	166.35	<b>61549.50</b>
11	11.4.3	Cement Concrete flooring 1:2:4 (1 Cement : 2 Coarse Sand: 4 Graded Stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps et. Complete.				
		50 mm thick with 20 mm nominal size stone aggregate	995.00	Sqm	133.60	<b>132932.00</b>
12	12.1.2	Providing corrugated G S Sheet roofing fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G I limpet washers or with G I limpet washers filled with white lead including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a pitch of 60 degree) excluding the cost of purlins, rafters and trusses.				
		1.25 mm thick with zinc coating not less than 350 gm/sqm	1070.00	Sqm	477.75	<b>511100.00</b>

Sr. no.	DSR Item	Description	QTY	UNIT	RATE	AMOUNT
13	12.6.1	Providing ridges or hips of width 60 cm overall width plain G S Sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G I limpet and bitumen washers complete.				
		0.80 mm thick with zinc coating not less than 275gm/sqm	50.00	Metre	219.55	10977.50
14	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)	1500.00	Sqm	54.15	81225.00
15	13.56.3	Pointing on brick work with cement mortar 1:3 (1 Cement : 3 Fine sand)				
		Struck or weathered pointing	1500.00	Sqm	39.10	58650.00
16	13.70.1	White washing with lime to give an even shade				
		New work (Three or more coats)	1500.00	Sqm	4.60	6900.00
17	13.79.1	Finishing wall with water proofing cement paint "Snowcem-Plus" of M/s Snowcem India Ltd. or equivalent of required shade	1500.00	Sqm	23.10	34650.00
18	13.81.1	Applying priming coat				
		With ready mixed pink or grey primer of approved brand and manufacture on wood work ( hard & soft wood)	260.00	Sqm	11.75	3055.00

Sr. no.	DSR Item	Description	QTY	UNIT	RATE	AMOUNT
19	13.94.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
		Two or more coat on New Work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	260.00	Sqm	37.35	9711.00
20	16.2.1	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)				
		With F P S bricks	150.00	Sqm	255.60	38340.00
						2475456.25
		ADD DSR PREMIUM 34.4%				851556.95
					A	3327013.20
1	NS	Public Health Works		L S	75000.00	75000.00
2	NS	Electrical Work		L S	130000.00	130000.00
					B	205000.00
					TOTAL A + B	3532013.20
					ADD CONTINGENCY 3%	105960.40
						3637973.60
					ADD NBCC CHARGES 10%	363797.36
					TOTAL	4001770.96

sd/-  
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**Item No.6.12 : To consider and approve the RCE for Construction of 4 nos. mess staff bearer barracks.**

The mess staff is residing in the barracks near the hostels. Some of the mess bearers are still residing outside the campus because of the scarcity of the space available in the barracks. It is proposed to construct 4 nos. bearer barracks in the Institute so that the mess staff residing outside the campus may be provided accommodation near the hostels to increase the efficiency of their working. For this work, the NBCC has submitted RCE amounting to Rs. 46.55 lacs.

It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs. 46.55 lacs for construction of 4 nos. bearer barracks.

# ROUGH COST ESTIMATE FOR CONSTRUCTION OF MESS STAFF BEARER BARRACKS (4 NOS.) AT NIT, KURUKSHETRA.

Preliminary Cost Estimate Based on CPWD PAR'92

## General Abstract of Cost

Sl No.	Description	Amount (in Rs)
1	Civil Works	3427064.00
2	Plumbing	329620.76
3	Electrical	428383.00
	<b>Total</b>	<b>4185067.76</b>
	Add Contingency @ 3% on above	125552.03
	<b>Total</b>	<b>4310619.79</b>
	Add NBCC Charges @ 8%	344849.58
	<b>Grand Total</b>	<b>4655469.38</b>

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# RCE FOR CONSTRUCTION OF MESS STAFF BEARER BARRACKS (4 NOS)

SUMMARY OF COSTS			
Sl No.	Description	% Escalation	Amount (in Rs)
1	Civil		1536800.00
	Add Cost Index Escalation @ 123%	123%	1890264.00
	<b>Total</b>		<b>3427064.00</b>
2	Plumbing		147812.00
	Add Cost Index Escalation @ 123%	123%	181808.76
	<b>Total</b>		<b>329620.76</b>
3	Electrical		192100.00
	Add Cost Index Escalation @ 123%	123%	236283.00
	<b>Total</b>		<b>428383.00</b>
	<b>Grand Total</b>		<b>4185067.76</b>

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# RCE FOR CONSTRUCTION OF MESS STAFF BEARER BARRACKS (4 NOS)

Preliminary Cost Estimate Based on PAR					
Sl No.	Description	Area (in Sq Mtrs)	Rate in Rs.)	Amount (in Rs)	Reference
	<b>Civil Works</b>				
1.1	Load Bearing Structure				
A	<b>Total</b>	680.00	2,010.00	<b>1366800.00</b>	PAR 92/2.1
1.2.2	Resisting Earthquake Forces	680.00	250.00	170000.00	PAR 92/1.2
B	<b>Total</b>			<b>170000.00</b>	
	<b>Total Cost of Civil Works as per PAR</b>			<b>1536800.00</b>	
	<b>Services</b>				
2.1	Plumbing				
	Internal Water Supply & Sanitary				
2.1.1	Installations		4% of Civil	61472.00	PAR 92/3.1
2.1.2	External Services Connection		5% of Civil	76840.00	PAR 92/3.2
A				<b>138312.00</b>	
2.1.3	Over Head Tank without Staging				
a	Domestic & Fire Tank (Capacity in Ltrs)	2,000.00	4.75	9500.00	PAR 92/4.1
B				<b>9500.00</b>	
	<b>Total A + B</b>			<b>147812.00</b>	
	<b>Electrical</b>				
3.1	Internal electrical Installations		12.5 % of Civil	192100.00	PAR 92/3.3
	<b>Total</b>			<b>192100.00</b>	

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**Item No. 6.13 :      To consider and approve the RCE for provision of stores in hostels.**

In all the hostels of the National Institute of Technology, Kurukshetra, there is no space available for storage of rashan and other items. It is proposed to provide proper facility for storing rashan and other items. For this work, the NBCC has submitted RCE amounting to Rs. 30.57 lacs.

It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs. 30.57 lacs for provision of stores in hostel.



# RCE FOR STORES IN HOSTELS

## ROUGH COST ESTIMATE FOR STORES IN HOSTELS AT NIT KURUKSHETRA

Preliminary Cost Estimate Based on CPWD PAR'92

### General Abstract of Cost

Sl No.	Description	Amount (in Rs)
1	Civil Works	2442829.10
2	Electrical	305353.64
	<b>Total</b>	<b>2748182.73</b>
	Add Contingency @ 3% on above	82445.48
	<b>Total</b>	<b>2830628.22</b>
	Add NBCC Charges @ 8%	226450.26
	<b>Grand Total</b>	<b>3057078.47</b>

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# RCE FOR STORES IN HOSTELS

SUMMARY OF COSTS			
Sl No.	Description	% Escalation	Amount (in Rs)
1	Civil		1095439.06
	Add Cost Index Escalation @ 123%	123%	1347390.04
	<b>Total</b>		<b>2442829.10</b>
2	Electrical		136929.88
	Add Cost Index Escalation @ 123%	123%	168423.75
	<b>Total</b>		<b>305353.64</b>
	<b>Grand Total</b>		<b>2748182.73</b>

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# RCE FOR STORES IN HOSTELS

## Preliminary Cost Estimate Based on PAR

SI No.	Description	Area (in Sq Mtrs)	Rate in Rs.)	Amount (in Rs)	Reference
	<b>Civil Works</b>				
<b>1.1</b>	RCC Framed Structures				
<b>1.1.1</b>	Main Building (Height 3.6m)				
<b>A</b>	<b>Total</b>	334.57	2,920.00	<b>976944.40</b>	PAR 92/1.1.1
<b>1.2</b>	Extra For				
<b>1.2.1</b>	Extra for Additional Height of 0.25 Mtrs over 3.35 m 0.25/0.3 x 125 = 104.17	334.57	104.17	34852.16	PAR 92/1.2.3
<b>1.2.2</b>	Resisting Earthquake Forces	334.57	250.00	83642.50	PAR 92/1.2.8
<b>B</b>	<b>Total</b>			<b>118494.66</b>	
	<b>Total Cost of Civil Works as per PAR</b>			<b>1095439.06</b>	
	<b>Electrical</b>				
<b>3.1</b>	Internal electrical Installations		12.5 % of Civil	136929.88	PAR 92/3.3
	<b>Total</b>			<b>136929.88</b>	

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**Item No.6.14 :        To consider and approve the RCE for Renovation of  
                                 offices of faculty and other officers.**

The Institute has been constructed 35 to 40 years ago, the offices of all the faculty and other officers are in very bad shape and they need to be renovated. It is proposed that the offices of faculty and other officers may be renovated. For this work, the NBCC has submitted RCE amounting to Rs. 52.07 lacs.

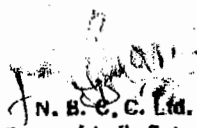
It is, therefore, requested that BWC may consider and approve the RCE amounting to Rs. 52.07 lacs for renovation of offices of faculty and other officers.

**RCE FOR PROVISION OF FLOOR TILES AND FALSE CEILING IN OFFICE ROOMS**

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<b>NON SCHEDULE ITEMS</b>				
1	NS	Dismantelling/ removing of old light points/ power points and removing/ opening of fittings/fixtures and depositing the servicable material to store complete as per direction of Engineer in charge.	Nos	400.00	150.00	<b>60000.00</b>
2	NS	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 pvc conduit including providing 1.00 SQ mm dia earth copper wire for loop earthing as modular type switch & box.	Each	300.00	560.00	<b>168000.00</b>
3	NS	Wiring for power plug (with Neon) with 2 x 4 sq. mm PVC insulated, copper conductor, single core cable in surface / recessed PVC conduit along with 1 no.1.00 sq mm dia earth copper wire for loop earthing as required.	Meter	300.00	80.00	<b>24000.00</b>
4	NS	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 PVC conduit as required.	Meter	150.00	70.00	<b>10500.00</b>
5	NS	Wiring for submain wiring with the following size of PVC insulated, copper conductor, single core cable in surface/ recessed PVC conduit as required.				
		4 X 6 SQMM + 2 X 1.5 E Sqmm	Meter	150.00	195.00	<b>29250.00</b>
6	NS	Supply and fixing of double metal door enclosure (IP 42) with provision for installing 12 Nos of 10/20 amps SP MCB's i.e. 4 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 as required.				
	(a)	4 way TPN DB	Each	10.00	4000.00	<b>40000.00</b>
	(b)	8 way SPN DB	Each	4.00	1200.00	<b>4800.00</b>

# Rough Cost Estimate For Provision of Floor Tiles & False Ceiling in Office Rooms at NIT Kurukshetra

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	11.78.2	Providing & laying polished porcelain floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 1% and flexural strength not less than 30N/sqmm, in all colours & shades, laid on 20 mm thick cement mortar/adhesive/tile fixer 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete				
		Size of Tile 60 x 60 CM (Approx)	Sqm	1200.00	1203.95	1444740.00
2	12.84	Providing & fixing 15 mm thick USG-Reader Mineral Fiber False Ceiling Tiles or equivalent of size 600 x 600 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 170 gsm/sqm) consisting of main "T" runner suitably spaced at joints to get required length and of size 24 x 38 mm made from 0.30 mm thick (minimum) sheet spaced at 1200 mm centre to centre and cross "T" of size 24 x 25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm centre to centre to form a grid of 1200 x 600 mm and secondary cross "T" of length 600 mm and size 24 x 25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200 x 600 mm panel to form grids of 600 x 600 mm and laying 15 mm thick				

  
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# RCE FOR PROVISION OF FLOOR TILES AND FALSE CEILING IN OFFICE ROOMS

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		mineral fiber false ceiling tiles of approved texture in the grid including , wherever required , cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.Main "T" runners to be suspended from ceiling using Gi slotted cleats fixed to be ceiling with 6mm dia and 50 mm long dash fasteners, 4mm GI adjustable roads with galvanized level clips spaced at 1200 mm centre to centre along main T bottom exposed width of 24 mm of all T section shall be pre painted with polyester, all complete at all heights as per specification drawings and as directed by Engineer-in charge.	Sqm	1200.00	633.60	760320.00
3	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.2	1:4 (1 Cement : 4 Coarse sand)	Sqm	100.00	60.60	6060.00
4	13.40 A	Providing & applying plaster of paries putty of 2 mm thickness over plastered surface	Sqm	1800.00	33.90	61020.00
5	13.92	Painting with plastic emulsion paint of approved brand & manufacture to give an even shade.				
		Two or more coat on New Work	Sqm	1800.00	30.80	55440.00
6	13.94.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give and even shade:				
		Two or more coat on New Work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	250.00	37.35	9337.50
7	14.78	Removing white wash or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	1800.00	2.10	3780.00

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# RCE FOR PROVISION OF FLOOR TILES AND FALSE CEILING IN OFFICE ROOMS

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8	24.3.2	Providing & fixing glazing in door, Window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in -charge. (Cost of aluminum snap beading shall be paid in basic item.) with glass panes of 5.50 mm thickness (weight not less than 13.75 Kg/Sqm	Sqm	80.00	525.70	42056.00
						2382753.50
ADD DSR PREMIUM 34.4%						819667.20
A						3202420.70

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**RCE FOR PROVISION OF FLOOR TILES AND FALSE CEILING IN OFFICE ROOMS**

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7	NS	Supplying and fixing metal box of 180 mm x 100 mm x 60mm deep (nominal size) on surface or in recessed with modular type 3 pin 5/6 amp socket outlet and 5/6 amp tumbler/Piano type switch connection, painting, etc. as required. (For light plugs)	Each	100.00	610.00	<b>61000.00</b>
8	NS	Supplying and fixing metal box of 180 mm x 100 mm x 60 mm deep (nominal size) on surface / recessed with modular type 6 pin 15 / 16 amp socket outlet and 15/16amp tumbler/Piano type switch connection, painting, etc as required. (For Power plugs).	Each	100.00	820.00	<b>82000.00</b>
9		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)	Each	50.00	950.00	<b>47500.00</b>
10		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).	Each	50.00	800.00	<b>40000.00</b>
11	NS	Supply of the following flourescent tube light 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	TBS 300/418 M5 HPF	Each	200.00	3200.00	<b>640000.00</b>

**RCE FOR PROVISION OF FLOOR TILES AND FALSE CEILING IN OFFICE ROOMS**

SR. NO	DSR Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>b</b>	TMC 55/136 M5 HPF	Each	5.00	670.00	<b>3350.00</b>
	<b>c</b>	FDN 622/01 (White) 1 x PLS 9W	Each	10.00	800.00	<b>8000.00</b>
	<b>d</b>	FMS 200/111 1 x PLS 9w/11w	Each	10.00	530.00	<b>5300.00</b>
<b>12</b>	<b>NS</b>	Supply, Installation, testing and commissioning of 1400 mm ceiling fan with electronic regulator and 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.	Each	150.00	1700.00	<b>255000.00</b>
<b>B</b>						<b>1478700.00</b>
<b>TOTAL A + B</b>						<b>4681120.70</b>
<b>Add 3% Contingency</b>						140433.62
						<b>4821554.33</b>
<b>ADD NBCC CHARGES 8%</b>						385724.35
<b>TOTAL</b>						<b>5207278.67</b>

*Sd/-*  
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