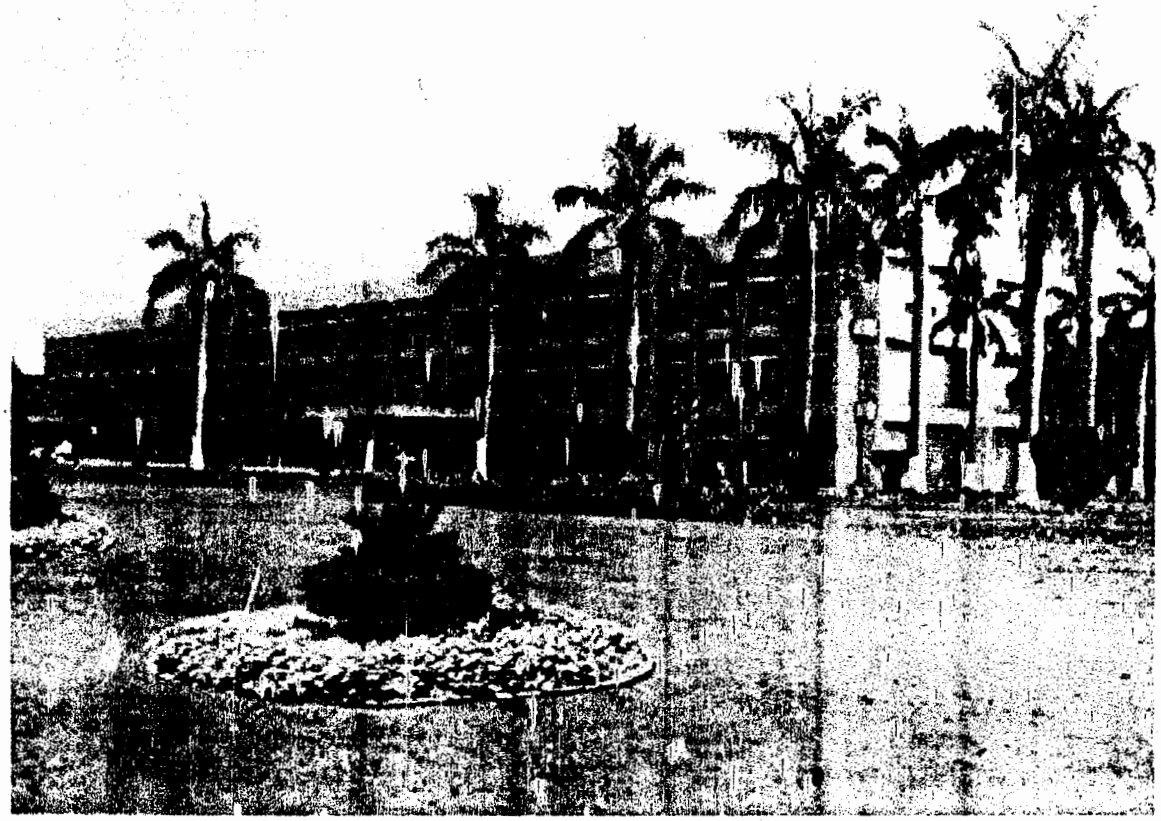
AGENDA FOR 14TH (SPECIAL) MEETING OF BUILDING & WORKS COMMITTEE

JUNE-17, 2010



NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

AGENDA FOR 14TH(Spl.) MEETING OF BUILDING & WORKS COMMITTEE

VENUE	:	SENATE HALL NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA
DAY	:	THURSDAY
DATE	:	17.06.2010
TIME	:	11.30 AM

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

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CONSTITUTION OF BUILDING & WORKS COMMITTEE

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

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

Item No. 14.1 To confirm the minutes of 13th meeting of the Building & Works Committee held on 25.02.2010.

The minutes of the 13th Meeting of Building & Works Committee held on 25.02.2010 were circulated amongst the members vide letter No. NIT/13th BWC/1727/1313 dated 27.02.2010 No comments were received from any member. Some comments were received from Er. Vimal Kumar, Member of B &WC vide letter No. CCEC-1/23[130]/412 dated 02.03.2010 (copy enclosed as Annexure-I from page-2 to 3). A detailed reply is enclosed as Annexure-II on page-4.

The minutes may be confirmed.

भारत सरकार
केंद्रीय लोक निर्माण विभाग
अधीक्षण अभियंता(वैद्युत),
चण्डीगढ़ केंद्रीय वैद्युत परिमण्डल-I, कलोनी-I,
केंद्रीय सदन, सैक्टर-9, चण्डीगढ़
दूरभाष एंव फैक्स संख्या : 0172-2742241, 2740413

GOVT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
Superintending Engineer(Elect),
Chandigarh Central Elect Circle-I, CPWD,
Kendriya Sadan, Sector-9, Chandigarh
Phone & FAX No . 0172-2742241;2740413

संख्या.No.CCEC-I/23[130] 412 दिनांक/Dated: 2, 03.2010

सेवा में,

Shri R.P.S.Lohchab
Registrar and Member Secretary,
Building and Works Committee,
National Institute of Technology
Kurukshetra [Hr] - 136119.

Sub Building and Works Committee Meeting held on 25.02.2010.

Ref Your office letter No.NIT/13th BWC/1716/1106 dated 22.02.2010.

This refers to the Agenda Points discussed during the 13th Building and Works Meeting held at NIT Kurukshetra, on 25.02.2010. The following observations are brought to your notice for inclusion in the minutes of the meeting and necessary action, as required:-

[1] **Non-Preparation of the cost estimates and revised cost estimates based on Delhi Schedule of Rates and Plinth Area Rates approved by CPWD.**

During the last Building and Works Committee meeting, it had been impressed upon by the Members that all the estimates being put up to B&W Committee should be based on Delhi Schedule of Rates and the Plinth Area rates approved by CPWD. This, however, has not been followed so far and even now the estimates which were put up to the B&W Committee were based on Haryana P.A.R. It was emphasized that no further estimates will be entertained by the B&W Committee if these are not as per the CPWD Norms.

[2] **Tender details i.e the tenders received, tendered rates, justification etc.**

In the agenda items for the cost estimates/revised cost estimates, it is seen that as per the practice being followed, the cost estimates/revised cost estimates being put up to the Committee are justified with respect to the tendered cost and the rates of the lowest tenderer. The percentage above/below the justification are also put up to the Committee. It is felt that such details are not required to be considered by the Committee since the procedure related to call of tenders and its acceptance is beyond the purview of the the Committee. It may kindly be ensured that the cases being put up to the Committee are based on the cost estimates/revised cost estimates prepared by the Engineering Wing of NIT and no details pertaining to the rates of the tenders received, tenders called should be given therein.

[3] **Item No.11.3 of Agenda item No.13.2.**

The following amendments need to be made in the para 11.3 of agenda item No.13.2 i.e,

"[i]To consider and approve revised cost estimate for providing and installation of Electrical Sub Station HT/LT Distribution including street lighting and feeder pillars etc., non residential area at NIT Kurukshetra.

[ii]Providing and installation of electrical Sub Station, HT/LT Distribution and feeder pillars in residential area at NIT Kurukshetra.

The work pertainining to only non-residential portion amounting to Rs.578 lacs has been allocated to CPWD whereas in the paragraph, it is written that complete work pertaining to non-residential and residential area amounting to Rs.801.00 lacs lhas been allocated to CPWD. This needs to be corrected since as per A/A & E/S accorded for the work vide NIT Kurukshetra, letter No.CC/No/610/7167 dated 13.8.09, the sanction is for Rs.578 lakhs. It may kindly be seen that necessary action for finalization of the scheme and call of tenders is to be taken up by the Chief Engineer[e]NR, CPWD, New Delhi.

2.3.10

(विमल कुमार)
अधीक्षण अभियंता (वैधुत)
चण्डीगढ केन्द्रीय वैधुत परिमंडल No.1

Copy to

[1] अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमंडल, के०लो०नि०लि०. चण्डीगढ

(विमल कुमार)
अधीक्षण अभियंता (वैधुत)
चण्डीगढ केन्द्रीय वैधुत परिमंडल No.1

Speed Post

NATIONAL INSTITUTE OF TECHNOLOGY
(INSTITUTION OF NATIONAL IMPORTANCE)
KURUKSHETRA

No/CC/905/1941 **Dated: 31.03.2010**

To,

Sh. Vimal Kumar,
Member B &WC, NIT, Kurukshetra - Cum -
Superintending Engineer (Elect.),
Central Public Works Department,
Chandigarh Central Elect Circle-I,CPWD,
Kendriya Sadan, Sector-9, Chandigarh.

Subject:- **Building and Works Committee Meeting held on 25.02.2010.**

Reference:- **Your office letter No. CCEC-I/23[130]/412 Dated 02/03/2010.**

With reference to above letter, the pare wise reply to the observations raised by you is as under:-

(1) **Non- Preparation of the cost estimates and revised cost estimates based on Delhi Schedule of Rates and Plinth Area Rates approved by CPWD.**

- In the 12th Special meeting of B&WC held on 03.09.2009, the Hon'ble members desired & decided that the estimate of all the new works yet to be taken in hand should be framed on DSR & plinth area rates approved by CPWD & not on HSR basis.
- In the 13th meeting of B&WC held on 25.02.2010 all the works contained in the Agenda of B&WC meeting were old works which were already approved in the previous B&WC meetings & such estimates which were prepared earlier on HSR were again revised on latest approved rates of HSR.
- This observation of Hon'ble member has already included in the minutes of the meeting of 13th B&WC meeting that in future the estimates may be the prepared on DSR basis in accordance with CPWD norms.

(2) **Tender details i.e. the tenders received, tendered rates, justification etc.**
In Principle, it was agreed in the 13th B&WC meeting and in future Agenda of meeting will be framed accordingly

(3) **Item No. 11.3 of Agenda item No. 13.2.**
Item will be corrected before placing in the ensuing meeting of B&WC.

It is for your kind information, please.

31/3/10
Prof. I/C (E & C)

Copy to Registrar for kind information, please.

Discuss urgently
31/3

Discussed. Comments read + reply given by us may also reported to the B&WC in next meeting

N.I.T. REGISTRY
Dy. No. 6536 Date 1/4/10

Item No. 14.2 **To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010.**

The action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010 will be reported in the next meeting of Building & Works Committee.

Item No. 14.3 To consider & approve the revised cost Estimate of Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The B & WC in it's 10th meeting held on 19.02.2009 vide item no. 10. Approved a sum of Rs. 948.35 lac. for the construction of Additional Girls hostel (300 Capacity) at NIT, Kurukshetra.

The work of the above said building is under construction, during execution of this work some quantities have been increased because of final detailed architectural/structural drawings & design and in addition of construction of cycle stand & CC pavement and parking which were not included in the preliminary estimate.

As explained above the revised cost estimate amounting to Rs. 1072.33 lac. has been framed and duly scrutinized by the Construction Cell to cover the cost of additional items & quantities.

It is therefore requested that B & WC may kindly consider and approve the revised cost estimate amounting to Rs. 1072.33 lac. for the above cited work.

[redacted] Name of Work:- [redacted] NIT [redacted]
(BASED ON [redacted] & LATEST [redacted] w.e.f. [redacted]2008)

S.No	Ref. HSR No.	Description	Qty.	Unit	HSR Rate (In Rs.)	C.P	Total Rate Rs.	Estimated Cost Rs.	Qty Likely to be executed	Qty in Saving	Qty . In Excess	Saving Amount Rs.	Exces Amount
		SUB PART-1: INTERNAL PH WORKS (SCHEDULE ITEMS)											
1		Providing and fixing in position best Indian make lavatory suites white											
a)	30.41(iv)	size 550mm x 400mm with one no. tap	67	Each	407.000	250%	1424.50	95441.50	14.00	53.000	0.00	75498.50	
2	30.45	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	67	Each	92.000	250%	322.00	21574.00	110.00	0.000	43.00	0	1
3	30.48	Providing and fixing in position 32mm diameter G.I waste pipe embedded in wall	67	Each	98.000	250%	343.00	22981.00	0.00	67.000	0.00	22981	
4	30.50	Providing and fixing in position best Indian make C.P brass bottle trps 32mm diameter	67	Each	92.000	250%	322.00	21574.00	110.00	0.000	43.00	0	1
5	30.58	Providing and fixing in position best quality stainless steel draining board with iron brackets for building into wall including painting, cutting and making good the wall etc.					0.00					0	
		Size 600 mm x 450mm	1	Each	1774.000	250%	6209.00	6209.00	1.00	0.000	0	0	
6	30.62	Providing and fixing 40mm diameter G.I waste pipe embedded in wall or upto floor level including cost of union and plumbing joints	26	Each	118.000	250%	413.00	10738.00	110.00	0.000	84.00	0	3
7	30.66(c)	Providing and fixing in position best Indian make showeres with 15mm diamter inlet.					0.00					0	
(c)	30.66(c)	C.P brass with revolving shower	61	Each	122.000	250%	427.00	26047.00	75.00	0.000	14.00	0	
8	30.67(a)	Providing and fixing in position best Indian make paper holder fixed into C.P including cutting & making good the walls etc.					0.00					0	
(a)		C.P brass	46	Each	27.500	250%	96.25	4427.50	46.00	0.000	0	0	
9	30.68(b)	Providing and fixing in position best Indian make towel rails fixed including cutting and making good the wall etc.											
(b)		20mm diameter C.P brass adjustable											
(i)	b(i)	750mm long	77	Each	65.000	250%	227.50	17517.50	77.00	0.000	0	0	
(ii)	b(ii)	600mm long	77	Each	57.000	250%	199.50	15361.50	110.00	0.000	33.00	0	6
10		Providing and fixing in position glass shelf fixed in with rawl plugs C.P brass screws complete including cutting & making good the walls etc.											
(a)		With C.P brass bracket and guard rail											
(i)	30.69	600mm x125m	70	Each	72.500	250%	253.75	17762.50	70.00	0.000	0	0	
11	a(i)	Providing and fixing in position best Indian make soap dish fixed into wall with C.P brass screws complete in all respects including cutting & making good the walls etc											

(a)		C.P. Brass											
(i)	30.70 a(i)	Soap dish large	132	Each	59.000	250%	206.50	27258.00	195.00	0.000	63.00	0	1300
12		Providing and dixing in position best Indian make bevelled edge 5.5mm thick mirror fixed in position by means of 4 nos. C.P brass screws and washers complete including cutting and making good the walls etc.											
(a)		Indian make											
(i)	30.71	600mm x 450mm	68	Each	107.000	250%	374.50	25466.00	110.00	0.000	42.00	0	15
13		Providing and fixing in position best Indian make coat & hat hooks fixed with C.Pbrass screws complete including cutting and making good the walls etc.					0.00					0	
(a)		C.P Brass					0.00					0	
(ii)	30.73	Two way	624	Each	43.000	250%	150.50	93912.00	780.00	0.000	156.00	0	23
14	30.74	Providing and fixing in position super quality 65mm i/d opening CP brass dome type hinged grating weighting about 750 gms. Fixed in cement mortar 1:2 complete in all respects (as required by the Engineer-in-charge)	60	Each	67.500	250%	236.25	14175.00	60.00	0.000	0	0	
15		Providing & fixing in position 15mm i/d C.P brass bib cocks of best quality (as required by te Engineer -in - Charge)					0.00					0	
a)	30.75(a)	B b cock long body	180	Each	116.000	250%	406.00	73080.00	240.00	0.000	60.00	0	24
c)	30.75(c)	B b Cocks	82	Each	100.000	250%	350.00	28700.00	90.00	0.000	8.00	0	
16		Providing and fixing in position C.P brass stop cocks (as approved by Enigneer-in-charge)					0.00				0.00		
a)		15mm stop cocks					0.00				0.00		
ii)	30.76	Concealed stop cocks with flange	195	Each	130.000	250%	455.00	88725.00	195.00	0.000	0.00	0	
17	30.83	Providing and fixing in position best Indian make C.P brass inlet connection 15mm with 375mm pipe & CP brass nuts.	468	Each	115.000	250%	402.50	188370.00	468.00	0.000	0.00	0	
18		Providing and fixing in position HCI soil, waste, vent pipes to ISI specification or any other reputed firm including cutting & wastage etc. & cutting holes in walls, roofs or floor etc. and making good the floor & wall but excluding cost of lead jointing					0.00				0.00	0	
(a)	30.84(a)	100mm intrernal dia	828	Mtr.	97.500	300%	390.00	322920.00	828.00	0.000	0.00	0	
(b)	30.84(b)	75mm internal dia	965	Mtr.	83.000	300%	332.00	320380.00	965.00	0.000	0.00	0	
19		Providing lead caulked joints to HCI pipes & specials conforming to ISI specification of ELC or any other reputed firm including cost of lead yarn, fuel & tools etc.					0.00				0.00	0	
a)	30.87	100mm internal dia(1.13 kg)	960	Each	33.500	250%	117.25	112560.00	960.00	0.000	0.00	0	
(b)	30.87	75mm internal dia(0.91 kg)	1080	Each	27.500	250%	96.25	103950.00	1080.00	0.000	0.00	0	

20		ling a ng in n MS avy flat iron clamps made out of MS flat not less than 5mm of the approved design for fixing CI soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floor					0.00				0.00	0
a)	30.88	For 100 mm intrnal dia pipes	192	Each	12.500	300%	50.00	9600.00	192.00	0.000	0.00	0
b)	30.88	For 75mm internal dia pipes	192	Each	11.000	300%	44.00	8448.00	192.00	0.000	0.00	0
21		Providing and fixning HCI floor trap ISI marked of the self cleaning design with C.P brass hinged grating with or without vent arm & including cement concrete 1:2:4 complete in all respects					0.00				0.00	0
(b)	30.89	With 75mm internal dia outlet	56	Each	105.000	300%	420.00	23520.00	56.00	0.000	0.00	0
22		Providing and fixing in position HCI 50mm internal diameter outlet plain nahan trap ISI marked of the self cleaning design with CP brass hinged grating with frame weighing 6.80 kg each fixed complete as fully described in item no. 30.89 above					0.00				0.00	0
b)	30.90	75mm i/d outlet plain Nahani Trap	168	Each	100.000	300%	400.00	67200.00	180.00	0.000	12.00	0
23	30.91	Providing and fixing in position HCI specials for soil waste vent pipes to ISI specification including cutting noles in walls & making good but excluding cost of lead joints					0.00				0.00	0
(a)		For 100mm internal dia pipes					0.00				0.00	0
(i)		heal rest bend	27	Each	58.000	300%	232.00	6264.00	50.00	0.000	23.00	0
(iv)		Single junction with door 100mm x 100mm x 100mm	80	Each	86.500	300%	346.00	27680.00	80.00	0.000	0.00	0
vi)		Single junction plain 100mm x 100mm x 100mm	60	Each	76.500	300%	306.00	18360.00	60.00	0.000	0.00	0
xiii)		Bend with door	30	Each	60.000	300%	240.00	7200.00	30.00	0.000	0.00	0
(xiv)		Bend pla n	30	Each	53.000	300%	212.00	6360.00	30.00	0.000	0.00	0
xvii)		door piece	30	Each	53.000	300%	212.00	6360.00	30.00	0.000	0.00	0
xvi)		Cowls	27	Each	36.500	300%	146.00	3942.00	27.00	0.000	0.00	0
xxii)		Collars	108	Each	27.500	300%	110.00	11880.00	108.00	0.000	0.00	0
b)		For 75mm iternal dia pipes					0.00					
i)		Heal rest bend	27	Each	39.500	300%	158.00	4266.00	27.00	0.000	0.00	0
(iv)		Single junction with door 75mm x 75mm x 75mm	80	Each	59.000	300%	236.00	18880.00	80.00	0.000	0.00	0
xiii)		Bend with door	30	Each	42.000	300%	168.00	5040.00	30.00	0.000	0.00	0
(xiv)		Bend plain	30	Each	39.500	300%	158.00	4740.00	30.00	0.000	0.00	0
(xvi)		door piece	30	Each	40.500	300%	162.00	4860.00	30.00	0.000	0.00	0
xvii)		Cowls	27	Each	28.000	300%	112.00	3024.00	27.00	0.000	0.00	0
xviii)		Collars	190	Each	22.500	300%	90.00	17100.00	190.00	0.000	0.00	0
24		Cutting chase in brick wall in cement for embedding G.I or HCI pipe lines & making good the same					0.00				0.00	0
a)	30.95	Size 75x75mm	288	Mtr.	6.000	250%	21.00	6048.00	288.00	0.000	0.00	0
25	30.101	Painting HCI soil waste and vent pipes and fittings with black bitumastic ordinary paint of approved manufacture two coats on new work.					0.00				0.00	0

(BASED ON HOR 1988 & LATEST SANCTIONED PREMIUM P.E.F. OF 2008)

a)		mm in dia	6		50	2	8	240	346		0	
b)		75mm internal dia	346	Mtr.	1 350	250%	4.73	1634.85	346.00	0.000	0.00	0
26	30.110	Providing and fixing in position automatic brass ball valves in tanks					0.00				0.00	0
b)		With plastic ball					0.00				0.00	0
(iii)		25mm diameter	29	Each	65.500	250%	229.25	6648.25	29.00	0.000	0.00	0
27		Providing and fixing in position Gully traps fixed in cement concrete 1:4:8 with HCI grating 150x150mm CI cover weighing approximately 7.26 kg & frame clear opening 300 x 300mm and chamber including cost of brick work 1:5 cement concrete 1:8:16 and CC 1:2					0.00				0.00	0
b)	30.114(b)	100mm internal dia HCI gully traps.	36	Each	208.000	300%	832.00	29952.00	36.00	0.000	0.00	0
28	30.115	Providing and fixing in position best Indian make vitreous china ware channel of size 600mm x 150 including laying and fixing in cement concrete 1:2:4 complete as required by the Engineer-in charge.					0.00				0.00	0
(i)		White	68	Each	92.000	250%	322.00	21896.00	68.00	0.000	0.00	0
29	28.24	Cutting holes upto 23cm through brick work in cement wall for pipes and making good					0.00				0.00	0
a)		11.43cm thickness of walls	300	Each	14.000	215%	44.10	13230.00	300.00	0.000	0.00	0
b)		22.86 cm thickness of walls	420	Each	20.350	215%	64.10	26923.05	420.00	0.000	0.00	0
30	28.47	Bailing out water from the trenches for making new connections in fully charged pipelines									0.00	0
a)		Upto 200mm internal dia	5	Each	67.500	215%	212.63	1063.13	5.00	0.000	0.00	0
31	29.84(c)	Constructing brick masonry inspection chmaber upto 60 mtr. Depth in cement mortar 1:5 cement concrete 1:2:4 benching, 12mm thick cement plaster, RCC 1:2:4 slab 100mm thick with 455 x 455mm x 455x610mm inside light duty GI inspection cnmaber cover & frame									0.00	0
a)		Size 450x450mm inside	0	Each	414.000	330%	1780.20	0.00	35.00	0.000	35.00	0
c)		Size 600x900mm inside	60	Each	690.000	330%	2967.00	178020.00	30.00	30.000	0.00	89010
32	29.85	Extra for every 0.30mts. Depths fo inspection chamber									0.00	0
a)		450mmx450mm	0	Each	92.000	330%	395.60	0.00	15.00	0.000	15.00	0
c)		600mm x 900mm	60	Each	139.000	330%	597.70	35862.00	60.00	0.000	0.00	0
33		Excavation for pipelines running under pressure in trenches and pits in open areas where disposal of surplus earth is done alongwith the alignment and restoration of unmetalled surface to the original condition									0.00	0
a)	6.8	Without timbering and shoring upto 1.5 meters depth	328	100 Cum	1030.000	300%	4120.00	13513.60	328.00	0.000	0.00	0

10

34		vatio anch treet of in open area for storm sewer, sewers running by gravity & man holes to full depth and removal of surplus soil upto to a lead of 1 km in ordinary soil									0.00	0	
a)	6.10	For depth of excavation not exceeding 3 mts below ground level	954	100 Cum	1919.000	300%	7676.00	73229.04	954.00	0.000	0.00	0	
35	10.39	Cement concrete 1:4:8 with stoen aggregate 40mm nominal size in foundation and plinth	84	Cum	403.100	370%	1894.57	159143.88	84.00	0.000	0.00	0	
36	10.41	Cement concrete 1:2:4 with stone aggreagte 20mm nominal size in doundation and plinth	30	Cum	615.600	370%	2893.32	86799.60	50.00	0.000	20.00	0	578
37	10.59	Cement concretre 1:2:4 with stone aggregate 20mm nominal size in first storey upto 4 metres above plinth level									0.00	0	
	10.59+note	- do- (first storey)	12	Cum	621.850	370%	2922.70	35072.34	18.00	0.000	6.00	0	1753
		- do -(second storey)	12	Cum	624.400	370%	2934.68	35216.16	18.00	0.000	6.00	0	1760
		- do - (third storey)	12	Cum	626.950	370%	2946.67	35359.98	18.00	0.000	6.00	0	1767
		- do - (forth storey)	12	Cum	629.500	370%	2958.65	35503.80	18.00	0.000	6.00	0	1775
41	30.53(a)	Providing and fixing in position best quality stainless steel sinks with complete fittings as fully described in item no. 30.51									0.00	0	
a)		600mm x 450mm x 200mm	2	Each	5386.000	250%	18851.00	37702.00	4.00	0.000	2.00	0	3
42	30.59(a)	Providing and fixing in position best quality stainless steel sink built in draining board of size 600mm x 450mm complete as described in item no. 30.53 and 30.58 above					0.00				0.00	0	
a)	30.59(a)	Sink size 600 x 450 x 200mm	5	Each	7630.000	250%	26705.00	133525.00	5.00	0.000	0.00	0	
43	30.42	Providing & fixing in position best Indian make lavatory suites (With full anti splash RIM in vitreous Chinaware and all other necessary fittings. White											
	(ii)	(ii) 530mmx430xx with one no. tap	0	Each	575.000	250%	2012.50	0.00	96.00	0.000	96.00	0	1
		Total						**2882436.53**				**187489.500**	**5920**

Differnce in HSR items	4045
Contractor Premium @ 17.15%	693
Differnce in NS items	279
Total PH works	**50183**

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-01-2008)

S.N	Ref. HSR No.	Description	Qty	Unit	Total Rate (In Rs.)	Estimated Cost Rs.	Total Rate	Qty likely to executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount Rs.
		SUB PART - IV INTERNAL PH										
38	NS	Providing and fixing in position best Indian make (to the approval of Engineer -in-chare) 580mm white Indian make Orissa type water closet suit for sinking into floor with raised foot best treads with 100mm H C I trap along with.-	55	Each	3500.00	196000.00	3200	56	0	0	0	0
		White PVC 10 ltds Capacity low level flushing cistern (as approved by Engineer-in-charge) complete with internal PVC fitting like suption, 15mm i/d ball cock along with R.S of CI painted bracket and 32mm dia CP/GI outlet pipes Mosquito proof over flor pi										
39		Providing and fixing in position best Indian make (to the approval of Engineer-in-charge) Single trap symphonic European type white water closet suit consiting of -	33	Each	4500.00	148500.00	3300	33	0	0	0	0
(i)		White PVC 10 ltr. Capacity low level flushing like syption. 15mm i/d ball cock along with R.S or CI bracket and 32mm dia CP brass bend for out let. Mosquito proof over flow pipe etc										
(ii)		Best laid in make white plastic seat (solid) and i/d fitting with set & C P chromium plated hingesand rubber buffers (to the approved of Engineer-in-charge) Complete in all respect including cutting and making good the wall and floor										
40	NS	Providing and fixing in position C P jet connection of EWC complete including C.P plate for jet & PVC connection for jet point complete in all respects	33	Each	300.00	9900.00	350	33	0	0	0	0
4	NS	Providing, laying, jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 (1 cement, 1 fine sand) including testing of joints etc. complete										
a)		150mm i/d	950	Mtr	152.00	144400.00	175	612	348	0	60900	0
b)		200mm i/d	320	Mtr	231.00	82800.00	260	200	160	0	41600	0
4	NS	Providing and fixing of G.M peat valves heavy patterns with hand wheels ISI marked to GI pipe lines.										
a)		25mm i/d	72	Each	400.00	28800.00	450	72	0	0	0	0
b)		40mm i/d	39	Each	850.00	33150.00	625	39	0	0	0	0
c)		80mm i/d	6	Each	1600.00	12800.00	2100	12	0	4	0	8400
4	NS	Providing, testing and fixing G.I pipe 'B' class medium duty including cost of specials such as Tee, elbo, bends etc. and threading inside the building & Ground										
		15mm i/d	2400	Mtr	120.00	288000.00	135	2400	0	0	0	0
		20mm i/d	36	Mtr	144.00	51840.00	150	360	0	0	0	0
		25mm i/d	1440	Mtr	190.00	273600.00	195	1440	0	0	0	0
		40mm i/d	960	Mtr	250.00	240000.00	270	960	0	0	0	0
		50mm i/d	420	Mtr	300.00	126000.00	350	420	0	0	0	0
		80mm i/d	600	Mtr	500.00	300000.00	550	600	0	0	0	0
46	NS	Extra for providing and fixing union coupling to G.I pipe lines including cost of union complete									0	0
		15mm i/d	24	Each	50.00	1200.00	90	24	0	0	0	0
		20mm i/d	12	Each	78.00	936.00	120	12	0	0	0	0
		25mm i/d	30	Each	100.00	3000.00	170	30	0	0	0	0
		40mm i/d	12	Each	180.00	2160.00	320	12	0	0	0	0
		80mm i/d	24	Each	288.00	6912.00	750	24	0	0	0	0
4	NS	Providing and stringing S & S centrifugally cst (spun) iron pipes (Class LA) complete in trenches to the approval of Engineer-in-charge 80mm i/d	224	Mtr	925.00	207200.00	1250	300	0	76	0	95000
46	NS	Supplying and fixing ISI marked sluice valve double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge. 80mm	6	Each	3000.00	18000.00	2000	6	0	0	0	0
4	NS	Const. of sluice valve haudi 1m x 1m x 1m with brick work 1:5 cement sand mortar finished with 12.5 mm cement plaster 1:4 including RCC 1:2:4 slab with reinforcement, surface box complete in all respect to the approval of Engineer-in-charge.	6	Each	3000.00	18000.00	3500	6	0	0	0	0

50		Providing and fixing in position H.D.P.E water tanks complete with inlet, outlet scour and overflow flanges including masonry based underneath as approved by the Engineer-in-charge of different capacity tanks complete in all respect									
	NS	Capacity upto 2000 litres	52000	Ltrs	7.00	364000.00	6.5	54000	0	2000	0	13000
51		Construction brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C top slab with 1:2:4 mix (1 cement:2 coarse sand : 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded st									
	NS	Inside size 120 x 90cm and 90cm deep including SFRC cover with frame (Heavy duty) 580mm internal diameter									
		With Sewer bricks	18	Each	9000.00	162000.00	5000	10	8	0	40000	0
52	NS	Extra for depth for manholes									0	0
		Size 120x90cm	11	Mtr	2500.00	27500.00	1000	5	0	4	0	4000
53	NS	Making Sewer connection with the existing sewer line	3	Each	1000.00	3000.00	1500	3	0		0	0
54	NS	Providing M.S door rests including fixing in manholes with 20x20x10cm cement concrete blocks 1:3:6 (1 cement : 3 caorse sand : 6 graded stone aggregate 20mm nominal size) as per standard design;									0	0
		With 20 x20mm square bar	84	Each	150.00	12600.00	220	84	0	0	0	0
55	NS	Supplying and fixing ISI marked C.I. fire hydrant (with cap) complete with bolts,nuts, rubber insertions etc. double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge									
		80 mm diameter	0	Each	5000.00	0.00	5000	3	0	3	0	15000
56	NS	supplying & fixing ISI marked C.I. fittings like tail pices, Tee, Bands, Sockets, Tappers, & any other fittings used in pipes as per satisfaction of Engineer-in-charge.FR=70	0	Kg	70.00	0.00	70	500	0	500	0	35000
		Total				**2761898.00**					**142500**	**170400**
		Difference of NS items										**27900**

Name of Work: Gh[illegible] Hostel at IIIT KURUKSHETRA

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-01-2008)

S.No	Ref.	Description	Qty.	Unit	HSR Rate (In Rs.)	Estimated Cost Rs.	Total Rate	Qty likely to executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs	Excess Amount Rs
		SUB PART-I: INTERNAL CIVIL WORKS (NON SCHEDULE ITEMS)										
15		Providing and fixing PVC rain water pipe, I.S.I. mark supreme make single socketed pipes including solvent solution 160mm diameter complete in all respect pressure 6kgm per cm2										
	N.S	160mm diameter pipe	576	Mtr.	800.00	460800.00	300.00	710.00	0.00	134.00	0.00	40200.
16		Providing & fixing PVC door bend including solvent solution complete in all respect.										
	N.S	160 mm diameter pipe	320	Each	500.00	160000.00	200.00	80.00	240.00	0.00	43000.00	0.
17		Providing & fixing PVC plain bends in position with solvent solution complete in all respect.							0.00	0.00	0.00	0.
	N.S	For 150mm diameter pipe	45	Each	400.00	18000.00	200.00	0.00	45.00	0.00	9000.00	0.
		The rate quoted by the contractor shall be for all heights and levels as per drawings and for all scaffolding work and other connecting operations for below mentioned items.										
69		Providing and fixing 18 mm thick mirror polished, machine cut for Kitchen plateforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:3 with joints treated with (granite stone)										
a)	NS	Granite stone (Z-Black)	88	sqm	3000.00	264000.00	2600.00	160.00	0.00	72.00	0.00	187200.
b)	NS	Cheema Pink Colour (1st quality)	800	sqm	2200.00	1760000.00	1500.00	680.00	120.00	0.00	180000.00	0.
70	NS	Extra for providing edge moulding to granite stone counters including machine polishing to edge to give high gloss finish etc.. Complete in all respects	150	Mtr.	150.00	22500.00	100.00	700.00	0.00	550.00	0.00	55000.
71	NS	Providing and fixing first class plain coloured glazed tiles (of Orient/Somany make) of size 200x300 mm with minimum thickness 5mm in skirting and dado on 12mm thick cement plaster 1:3 (1 cement:3 coarse sand) the back of the tiles to be buttered with grey cement slurry.	2695	Sqm.	550.00	1482250.00	500.00	4300.00	0.00	1605.00	0.00	802500

(BASED ON THE 1988 LATEST SANCTIONED PREMIUM W.E.F. 01-01-2008)

72	NS	Providing and fixing 150mm wide sheet covering over expansion joints with rawl plugs and aluminium screws as per design to match the colour/shade of wall treatment with 3.15mm thick aluminium fluted strips.	200	Mtr.	330.00	66000.00	250.00	1100.00	0.00	900.00	0.00	225000.0
73	NS	Providing, laying & fixing including necessary screws 350mm wide 3.15 thick aluminium sheet bend to shape as per drawing/ instructions to act as metal cradle on expansion joint including embedding in concrete complete in all repects upto the entire satisfaction of the EIC	415	Mtr.	700.00	290500.00	100.00	415.00	0.00	0.00	0.00	0.0
74	NS	Providing Dr. Fixit pidiseal PS 41G (Gun grade), 42P (Pouring grace) or equivalent for horizontal and vertical expansion joint complete in all respects as per manufacturer detail to the satisfaction of EIC on all the floors 50mm wide & 20mm deep	200	Mtr.	250.00	50000.00	800.00	200.00	0.00	0.00	0.00	0.0
75	NS	Providing expansion joints in roof slab, terrace joints filled with bitumen filleror impregnated fiber board etc. all complete as per building specifications and directions of the Engineer-in-charge.	1450	Mtr.	250.00	362500.00	25.00	1450.00	0.00	0.00	0.00	0.
		50mm wide & 20mm deep									0.00	0.
76	NS	Providing precast CC jali 1:2:4 reinforced with 1:6 mm dia mild steel wire including centering & shuttering, roughening, cleaning, fixing and finishing in CM 1:3 etc. complete excluding plastering of the joints stills and soffits, 100 mm thick	260	Sqm.	1000.00	260000.00	500.00	460.00	0.00	200.00	0.00	100000.
77	NS	Providing and fixing 25mm CP fancing rod in Cupboard complete with all necessary fittings.	270	Mtr.	150.00	40500.00	50.00	270.00	0.00	0.00	0.00	0.
78	NS	Providing and laying 300mm dia NP -2 pipe complete with sockets as per satisfaction of the Engineer-in-charge	200	Mtr.	900.00	180000.00	450.00	300.00	0.00	100.00	0.00	45000
79	NS	Providing and fixing in position 50mm x50mm hollow sq. pipe for perapet railing or any type of railing including cost of welding roads etc. complete with one coat of primer.	2500	kg	80.00	200000.00	65.00	4500.00	0.00	2000.00	0.00	130000

80	NS	Providing and laying in floor plain coloured matt finish ceramic tiles of Orient/Kajaria make, size 300mm x 300mm (thickness as per manufacture) without warpage, laid on 20mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including grouting the join & pigment(first quality anti skid tiles to be used)	260	Sqm	600	156000.00	600	840.00	0.00	580.00	0.00	348000
81		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and (2mm thick)										
81.1		For fixed portion.										
81.1.1	NS	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic	303	kg	290.45	88006.35	350	303.00	0.00	0.00	0.00	0
81 2		For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for										
81.2.1	NS	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	540	kg	310.45	167643.00	350	540.00	0.00	0.00	0.00	0
82		Providing and fixing glazing in aluminium 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 aluminium snap beading shall be p										
82.1	NS	With float glass panes of 5.50 mm thickness	146	sqm	673.55	98338.30	550	146.00	0.00	0.00	0.00	0
83		Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for							0.00	0.00	0.00	
83.1	NS	With stainless steel cover plate	17	each	1733.50	29469.50	1750.00	17.00	0.00	0.00	0.00	

84		Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:3 including colour pigment complete as per EIC satisfaction										
84.1	NS	Size of Tile 60x60 cm	873	sqm	1100.00	960300.00	900.00	2400.00	0.00	1527.00	0.00	1371300
85		Providing & laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc. consisting of following operations:										
a		Applying and grouting a slurry coat of neat cement using 2.75 Kg/sqm of cement admixed with proprietary water proofing compound conforming to IS : 2645 over the RCC slab including cleaning the surface before treatment										
b		Laying cement concrete using broken bricks/ brick bats 25 m to 100 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS 2645 over 20 mm thick layer of cement mortar of mix 1:5										
c		After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645										
d		Finishing the surface with 20mm thick joint less 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 2										
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-in-Charge										

		(BASED ON THR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-01-2008)											
	f	ave thick of 1 m a minimum thickness at khurra as 65mm											
	NS		1525	Sqm	480	732000.00	325	2310.00	0.00	785.00	0.00	255125	
86	NS	Analysis rate for providing and fixing chiken wiremesh complete with screws and labours as per satisfaction of the Engineer-in-charge	0	0	0	0.00	79	160.00	0.00	160.00	0.00	12640	
						7848807.15					237000.00	3574965.	

Name of work: Girls Hostel at NIT KURUKSHETRA
(BA[illegible]N HSR [illegible] & LA[illegible]ANC[illegible]D PRE[illegible]W.E.F[illegible]-2008

S.No		Description	Qty.	Unit	HSR Rate (In Rs.)	C.P	Total Rate Rs.	Estimated Cost Rs.	Qty likely to executed	Qty. In Saving	Qty. In Excess	Saving Amount Rs.	Excess Amour
	HSR No.	SUB PART-1: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)											
1	6.6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs. depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry	2000	100 Cum	1108.10	350%	4986.450	99729.000	5600.00	0.00	3600.00	0.00	1795
2	6.27	Clearing grass and removal of the rubbish upto distance of 50m outside the periphery of the area cleared.	8350	100 sqm	21.45	300%	85.800	7164.300	9560.00	0.00	1210.00	0.00	10
3	10.39	Cement concrete 1:4:8 with stone aggregate 40 mm nominal size in foundation and plinth	100	Cum	403.10	370%	1894.570	189457.000	350.00	0.00	250.00	0.00	4736
4	10.56	Cement concrete 1:4:8 with stone aggregate 20 mm nominal size in first storey upto 4 metres above plinth level	220	Cum	426.25	370%	2003.375	440742.500	300.00	0.00	80.00	0.00	1602
	10.56	fifth storey	0	Cum	436.45	370%	2051.315	0.000	25.00	0.00	25.00	0.00	512
5	10.90 + 10.95 (a)+ note (a)	Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestal and approach slabs of bridges etc. excluding steel reinforcement but including centering and shuttering la	350	Cum	780.00	370%	3666.000	1283100.000	1150.00	0.00	800.00	0.00	29328
6	10.86+ 10.95 (a)	Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, girders, stairs, columns (square or rectangular) battens and lintels etc. excluding steel reinforce										0.00	
6.1	10.86+ 10.95 (a)	-do- (first storey)	325	Cum	1188.75	370%	5587.125	1815815.625	468.00	0.00	143.00	0.00	7989
6.2	10.86+ 10.95 (a)+ note(v)(b)	-do- (second storey)	325	Cum	1196.05	370%	5621.435	1826966.375	208.00	117.00	0.00	657707.90	
6.3	10.86+ 10.95 (a)+ note(v)(b)	-do- (third storey)	325	Cum	1203.35	370%	5655.745	1838117.125	303.00	22.00	0.00	124426.39	
6.4		fourth storey	325	Cum	1210.65	370%	5690.055	1849267.875	193.00	132.00	0.00	751087.26	
6.5		fifth storey	6	Cum	1217.95	370%	5724.365	34346.190	6.00	0.00	0.00	0.00	
7	10.82 + 10.95 (a)	Cement concrete 1:1:5:3 with stone aggregate 20mm nominal size for reinforced concrete work in slab with inclination not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering laid in position complete in all respect										0.00	
7.1	10.82 + 10.95 (a)	-do- (first storey)	382	Cum	1084.80	370%	5098.560	1947649.920	320.00	62.00	0.00	316110.72	
7.2	10.82 + 10.95 (a)+note(v)(b)	-do- (second storey)	382	Cum	1092.10	370%	5132.870	1960756.340	270.00	1[illegible].00	0.00	574881.44	
7.3	10.82 + 10.95 (a)+note(v)(b)	-do- (third storey)	382	Cum	1099.40	370%	5167.180	1973862.760	270.00	1[illegible].00	0.00	578724.16	
7.4		fourth storey	300	Cum	1106.70	370%	5201.490	1560447.000	410.00	0.00	110.00	0.00	572

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-01-2008)

7		store		Cum	14.00		5	707.4		0	1	0.00	68
8	18.22	Cold twisted deformed (ribbed/tor steel) bars for R.C.C. works where not included in the complete rate of R.C.C. including bending, binding and placing in position complete.	4650	Qtl	917.05	325%	3897.463	18123200.625	6410.00	0.00	1760.00	0.00	68595
9	10.36	Cement concrete 1:4:8 with brick ballast 40mm nominal size in foundation and plinth	70	Cum	385.25	370%	1810.675	126747.250	0.00	70.00	0.00	126747.25	
10	10.132+ 10.95 (a)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavements, roads, taxi tracks and runways,laid to required slope and camber, including consolidation,finishing,and tamping complete.	270	Cum	729.30	370%	3427.710	925481.700	550.00	0.00	280.00	0.00	9597
11	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm. laid hot and sanded.	250	Sqm	35.05	370%	164.735	41183.750	250.00	0.00	0.00	0.00	
12	11.2	First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.	715	Cum	393.45	350%	1770.525	1265925.375	550.00	165.00	0.00	292136.63	
13	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meter above plinth level.								0.00	0.00	0.00	
13.1	11.7	-do- (first storey)	277	Cum	414.45	350%	1865.025	516611.925	277.00	0.00	0.00	0.00	
13.2	11.7+11.41 (i)	-do- (second storey)	269	Cum	422.70	350%	1902.150	511678.350	207.00	0.00	28.00	0.00	532
13.3	11.7+11.41 (i)	-do- (third storey)	216	Cum	430.95	350%	1939.280	418884.480	280.00	0.00	64.00	0.00	1241
13.4		fourth storey	315	Cum	439.20	350%	1976.400	622566.000	250.00	65.00	0.00	128466.00	
13.5		fifth storey	44	Cum	447.45	350%	2013.530	88595.320	220.00	0.00	176.00	0.00	3543
14	11.48 (a)	11.43 cm thick brick wall laid in cement sand mortar 1:4 in superstructure in first storey										0.00	
14.1	11.48 (a)	-do- (first storey)	2390	Sqm	55.10	350%	247.950	592600.500	2390.00	0.00	0.00	0.00	
14.2	11.48 (a) + note (iv)(a)	-do- (second storey)	2160	Sqm	56.05	350%	252.225	544806.000	2160.00	0.00	0.00	0.00	
14.3		third storey	2030	Sqm	57.00	350%	256.500	520695.000	2030.00	0.00	0.00	0.00	
14.4		fourth storey	2030	Sqm	57.95	350%	260.775	529373.250	2030.00	0.00	0.00	0.00	
18	13.50	Top Khurra 0.6 m x 0.6 m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50mm thick cement concrete 1:8:16.	45	Each	12.30	200%	36.900	1660.500	50.00	0.00	5.00	0.00	
19	14.1-10.26 Based derived rate	Sand filling under floor i/c laying consolidation, compaction & watering etc.	5400	Cum	160.00	0%	160.000	864000.000	5400.00	0.00	0.00	0.00	
20		Providing and lying cinder concrete in cement 1:15, 1cement and 15 cinder, on terraced roofs and 1st storey,laid to slope,including consolidating the same										0.00	
20.1	13.66+note iii	-do- (second storey)	80	Cum	216.65	200%	649.950	51996.000	80.00	0.00	0.00	0.00	
20.2	13.66+note iii	-do- (third storey)	80	Cum	219.65	200%	658.950	52716.000	80.00	0.00	0.00	0.00	
20.3	13.66+note iii	forth storey	80	Cum	222.65	200%	667.950	53436.000	80.00	0.00	0.00	0.00	
21	14.1	Base course of floors consisting of 100mm thick cement concrete 1:8:16 and 100mm sand or stone filling.	2340	Sqm	36.95	370%	173.665	406376.100	2340.00	0.00	0.00	0.00	
22		screed of 50mm of thick cement concrete 1:8:16 to be laid below the topping.										0.00	

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22.1		note(second y)											
	)		2340	Sqm	15.65	370%	73.555	172118.700	1590.00	750.00	-750.00	55166.25	-5516
22.2		-do- (third storey)	1340	Sqm	15.95	370%	74.965	100453.100	1920.00	0.00	580.00	0.00	4347
22.3		forth storey	1350	Sqm	16.25	370%	76.375	103106.250	1490.00	0.00	140.00	0.00	1069
23	14.8	conglomerate floor 25mm thick cement concrete topping 1:2:4.										0.00	
23.1	14.8	-do- (first storey)	47	Sqm	22.40	370%	105.280	4948.160	47.00	0.00	0.00	0.00	
23.2	14.8	-do- (second storey)	47	Sqm	22.70	370%	106.690	5014.430	47.00	0.00	0.00	0.00	
23.3		-do- (third storey)	47	Sqm	23.00	370%	108.100	5080.700	47.00	0.00	0.00	0.00	
23.4		forth storey	47	Sqm	23.30	370%	109.510	5146.970	47.00	0.00	0.00	0.00	
24	14.3	Floating coat of 1.50mm thick neat cement laid in one operation to the topping.	200	Sqm	3.70	370%	17.390	3478.000	200.00	0.00	0.00	0.00	
25	14.62	Kotah stone flooring minimum 25mm thick in any pattern as specified over 20 mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing										0.00	
25.1	14.62	-do- (first storey)	1716	Sqm	201.95	135%	474.583	814383.570	280.00	1436.00	0.00	681500.47	
25.2	14.62+note (i)	-do- (second storey)	1391	Sqm	202.25	135%	475.288	661124.913	0.00	1391.00	0.00	661124.91	
25.3	14.62+note (i)	-do- (third storey)	1280	Sqm	202.55	135%	475.993	609270.400	0.00	1280.00	0.00	609270.40	
25.4		forth storey	1290	Sqm	202.85	135%	476.690	614930.100	0.00	1290.00	0.00	614930.10	
26	14.64	Extra for Kotah stone flooring in treads of steps not exceeding 30 cm in width	152	sqm	1.15	135%	2.703	410.780	0.00	152.00	0.00	410.78	
27	14.65	Extra for nosing in treads of steps of Kotah stone slab	350	mtr	6.10	135%	14.335	5017.250	0.00	350.00	0.00	5017.25	
28	14.66	Kota stone 20 mm thick in skirting, risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing										0.00	
28.1	14.66	-do- (first storey)	200	Sqm	237.00	135%	556.950	111390.000	5.00	195.00	0.00	108605.25	
28.2	14.66 +note (i)	-do- (second storey)	180	Sqm	237.30	135%	557.655	100377.900	0.00	180.00	0.00	100377.90	
28.3	14.66 +note (i)	-do- (third storey)	172	Sqm	237.60	135%	558.360	96037.920	0.00	172.00	0.00	96037.92	
28.4	14.66 +note (i)	fourth storey	173	Sqm	237.90	135%	559.060	96717.380	0.00	173.00	0.00	96717.38	
29	15.5	12mm thick cement plaster 1:4 on wall										0.00	
29.1	15.5	-do- (first storey)	1835	Sqm	12.70	325%	53.975	99044.125	2410.00	0.00	575.00	0.00	3103
29.2	15.5+ note 1	-do- (second storey)	1835	Sqm	12.88	325%	54.740	100447.900	2370.00	0.00	535.00	0.00	2928
29.3	15.5+note 1	-do- (third storey)	1750	Sqm	13.06	325%	55.505	97133.750	2290.00	0.00	540.00	0.00	2997
29.4	15.5+ note 1	fourth storey	2310	Sqm	13.24	325%	47.550	109840.500	2070.00	240.00	0.00	11412.00	
29.5	15.5+note 1	fifth storey	250	Sqm	13.42	325%	48.310	12077.500	0.00	250.00	0.00	12077.50	
30	15.10	15mm thick cement plaster 1:4 on the rough side of singe or half brick										0.00	
30.1	15.10	-do- (first storey)	4030	Sqm	15.65	325%	66.513	268045.375	4100.00	0.00	70.00	0.00	465
30.2	15.10 +note (1)	-do- (second storey)	3540	Sqm	15.83	325%	67.278	238162.350	3240.00	300.00	0.00	20183.25	
30.3	15.10 +note (1)	-do- (third storey)	3060	Sqm	16.01	325%	68.043	208210.050	3320.00	0.00	260.00	0.00	1769
30.4	15.10 +note (1)	fourth storey	3370	Sqm	16.19	325%	57.980	195392.600	3560.00	0.00	190.00	0.00	110
30.5	15.10 +note (1)	fifth storey	195	Sqm	16.37	325%	58.750	11456.250	1150.00	0.00	955.00	0.00	561

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31		[illegible] cast [illegible] cemen[illegible]er on [illegible] with mixture of sand and gravel or crushed stone graded from2.36mm to 12mm nominal size dashed over and i/c fresh plaster in 2coats 10mm cement plaster 1:4 and finished coat 10mm cement plaster with cement morte											
	15.18											0.00	0
31.1	15.18	-do- (first storey)	3200	Sqm	35.40	325%	150.450	481440.000	0.00	3200.00	0.00	481440.00	0
31.2	15.18 +note (1)	-do- (second storey)	1705	Sqm	35.58	325%	151.215	257821.575	0.00	1705.00	0.00	257821.58	0
31.3	15.18 +note (1)	-do- (third storey)	1300	Sqm	35.76	325%	151.980	197574.000	0.00	1300.00	0.00	197574.00	0
31.4		fourth storey	1300	Sqm	35.94	325%	57.980	75374.000	0.00	1300.00	0.00	75374.00	0
31.5		fifth storey	250	Sqm	36.12	325%	58.750	14687.500	0.00	250.00	0.00	14687.50	0
32	15.52	10 mm thick cement plaster 1:4 under side & ceiling										0.00	0
32.1	15.52	-do- (first storey)	2180	Sqm	12.65	325%	53.763	117202.250	2250.00	0.00	70.00	0.00	3763
32.2	15.52 + Note (1)	-do- (second storey)	1880	Sqm	12.83	325%	54.528	102511.700	2395.00	0.00	515.00	0.00	28081
32.3	15.52 + Note (1)	-do- (third storey)	1340	Sqm	13.01	325%	55.293	74091.950	2395.00	0.00	1055.00	0.00	58333
32.4		fourth storey	1340	Sqm	13.19	325%	45.640	61157.600	1880.00	0.00	540.00	0.00	24635
32.5		fifth storey	60	Sqm	13.37	325%	46.400	2784.000	100.00	0.00	40.00	0.00	1656
33	15.77	20mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg. per laid hot and sanded.-								0.00	0.00	0.00	0
(a)	15.77 (a)+note (i)	Vertical								0.00	0.00	0.00	0
		- do (second storey)	225	Sqm	30.88	325%	131.240	29529.000	225.00	0.00	0.00	0.00	0
		- do - (third storey)	180	Sqm	31.06	325%	132.005	23760.900	180.00	0.00	0.00	0.00	0
		- do - (forth storey)	180	Sqm	31.24	325%	132.770	23898.600	180.00	0.00	0.00	0.00	0
b)	15.77 (b)++note (i)	Horizontal										0.00	0
		- do - (second storey)	130	Sqm	29.13	325%	123.803	16094.325	170.00	0.00	40.00	0.00	4952
		- do - (third storey)	130	Sqm	29.31	325%	124.568	16193.775	170.00	0.00	40.00	0.00	4982
		- do -(forth storey)	130	Sqm	29.49	325%	125.333	16293.225	170.00	0.00	40.00	0.00	5013
34	17.58(d)	Providing and fixing 12 mm thick and 100 mm wide pelmet with 25 mm diameter wooden curtain rod and brackets, including fixing with 25 mm x 3 mm M.S flat 10 cm long and plugs (Teak)etc, complete.										0.00	
	(d)	teak wood	1183	Metre	81.20	175%	147.350	174315.050	1183.00	0.00	0.00	0.00	
35	17.73	Providing and fixing six-levers brass 10cm mortice latch and lock, and a pair of lever handles with necessary screws, etc complete (Indian make of reputed firm, such as Godrej or equivalent)	20	each	134.45	175%	235.288	4705.750	20.00	0.00	0.00	0.00	
36	17.78 (c	Providing and fixing 150mm hasps and staples with necessary screws, etc complete	300	each	4.30	175%	7.525	2257.500	585.00	0.00	285.00	0.00	214
37	17.82	Supplying and fixing hydraulic door closer I.S.I. mark, with necessary screws, etc Complete -								0.00	0.00	0.00	
	(c)	I.S.I. designation No.III(size of door 851 mm to 1000 mm	12	Each	216.50	175%	378.875	4546.500	12.00	0.00	0.00	0.00	
38	17.93(a)-note (i) of 17.18	Factory manufactured solid flush door shutters with black board, core as per I.S .No. 1659-1969 bounded with water proof type phenol formaldehyde synthetic resin, hot pressed, conforming to I.S.2202 part I and II, fixed in position i/c iron hinges, screws										0.00	

		(BA[redacted]N HSK[redacted] & LA[redacted] ANC[redacted] PR[redacted] W.E[redacted] -200[redacted]											
	(a)	Commercial veenering with vertical grains or cross bands and face vener on both sides commercial facing its laminated core and lipped edges.											
38.1	(iii)	35mm thick	1436	Sqm	436.15	150%	1090.375	1565778.500	1436.00	0.00	0.00	0.00	
38.2	a (i)	25mm thick	615	Sqm	387.15	150%	967.875	595243.125	700.00	0.00	85.00	0.00	82[illegible]
39	17.87	Providing and fixing .50mm thick aluminium sheet i/c cost of necessary srews, etc. complete.	130	Sqm	90.55	175%	249.013	32371.625	150.00	0.00	20.00	0.00	4[illegible]
40	17.83 [c]	Providing and fixing sliding bolt with nuts and screws, etc. complete											
	(C)	Iron										0.00	
40.1	(i)	Size 300 x 16mm	662	Each	17.45	175%	47.988	31767.725	662.00	0.00	0.00	0.00	
40.2	(ii)	size 250x16mm	180	Each	16.35	175%	44.963	8093.250	180.00	0.00	0.00	0.00	
41		Cost of iron fittings complete for doors and windows, such as tower bolts, handles etc., and screws for these fittings (excluding sliding bolt)										0.00	
41.1	17.71 (a)	For single leaf shutter	1436	Sqm	6.40	175%	17.600	25273.600	1870.00	0.00	434.00	0.00	733
41.2	17.71 (b)	For double leaf shutter	600	Sqm	10.15	175%	27.913	16747.500	1600.00	0.00	1000.00	0.00	279[illegible]
42	18.12	Wrought iron and mild steel (using angles,	280	Q'l.	1040.35	325%	4421.488	1238016.500	215.00	65.00	0.00	287396.69	
43	18.16	Providing and fixing G.I. sheet 0.80 mm thick garage doors, with 40mmx 40mm x 6mm angle iron frame with diagonal braces, 3mm thick gusset plates at the junctions, hooks at the top and 25 mm dia, pulleys, & T-iron 50 mm x 50mm x 6mm guides at bottom includ	9.5	Sqm	424.00	325%	1378.000	13091.000	0.00	9.50	0.00	13091.00	
44	18.20	Providing and fixing in position collapsible steel shutters, with vertical channels 20 mm x 10 mm x 2mm and braced with flat iron diagonal 20 mm x 5 mm size, with top and bottom rails of T-iron 40 mm x 40 mm x 6 mm with 38 mm dia steel pulleys, complete w	9.5	Sqm	305.45	325%	992.713	9430.769	0.00	9.50	0.00	9430.77	
45	17.90 (b)-note I of 17.18	Factory manufacutred panelled door or glazed window shutter of commercial hard wood such as hollock, champ, chikrassy and chaplash etc (non - confireous timber other than teak conforming to I.S specification no. 1003 kiln seasoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & 100mm vide others rail with panelles of 15mm thick, tongued and grooved of commercial hard wood i/c the cost of iron hinges, screws, chocks/cleats, stops, nails etc complete fixed in position excluding the cost of any fittings other than specified above but including the labour for fixing the same in position.35 mm thick	600	Sqm	424.15	175%	1166.413	699847.500	430.00	170.00	0.00	198290.13	
46	18.30	S/F glass panes including special metal sash putty of approved make										0.00	
	(b)	Glass panes 4mm thick, exceeding 40 sq.dm.area	600	Sqm	115.40	325%	490.450	294270.000	600.00	0.00	0.00	0.00	

		BASE HSR- LA E NCTI PREM E.F. 008)											
47	18.34	Pressed steel sheet frames, chowkats consisting of 2mm thick steel sheet of specified section, including iron lugs (hold fasts) iron hinges, conforming to PWD specifications, including bolts for fixing stops, locknotch, provision for receiving tower bolts, and finished with one coat of ready mixed paint red lead non- setting primer, of approved quality, fixed in position including the cost of cement concrete 1:3:6 for filling in the frame, and cement concrete 1:3:6 for lugs complete:-										0.00	0
a)	18.34a	Door and window frame size 89mmx50mm with 40mmwide single rebate.	2620	Mtr	71.55	325%	304.088	796709.250	3260.00	0.00	640.00	0.00	1946 6
b)	18.34b	Door and window frame size 76mmx38mm with 35mmwide single rebate.	1950	Mtr	58.60	325%	249.050	485647.500	2595.00	0.00	645.00	0.00	160637
c)	18.34c	Door and window frame size 127mmx50mm with 40mmwide single rebate.	5100	Mtr	76.80	325%	326.400	1664640.000	6030.00	0.00	930.00	0.00	303552
48		Factory manufactured wire guaze door and windows shutters of Wire Gauge commercial hard wood such as hollock, champ, chikrassy and chaplash (non - confireous timber other than teak conforming to I.S specification no. 1003 kiln seaoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & wire gauze of 140G or 120G designation i/c the cost of iron hinges, screws, chocks/cleats, stops, nails etc. complete fixed in position excluding the cost of any fittings other than specified above but including the labour for fixing the same in position										0.00	0
a)	17.92.i-note I 17.18	30mm thick	430	Sqm	310.40	175%	853.600	367048.000	430.00	0.00	0.00	0.00	0
b)	17.92.ii-note I 17.18	35mm thick	510	Sqm	335.70	175%	923.175	470819.250	610.00	0.00	100.00	0.00	92317
49	18.35	Providing and fixing M.S.angle and T-iron frames for door, window and ventilator including iron hold fast, butt hinges of I.S.I. mark fixed in position with machine screws and duly welded including all other suitable locking arrangements provided and weld	1	Quintal	1069.70	325%	4546.225	4546.225	0.00	1.00	0.00	4546.23	
50	16.1	Preparation of plywood surface for painting including sand papering the surface and applying with approved quality filler consisting of white lead, linseed oil, varnish and chalk mitti including finishing the surface to required finish complete (with firs	7180	Sqm.	4.60	125%	10.350	74313.000	9800.00	0.00	2620.00	0.00	2711
51	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface knotting and stopping etc.	7180	Sqm.	3.75	125%	8.438	60581.250	10500.00	0.00	3320.00	0.00	2801

52	16.3	Applying two coats excluding priming coat with synthetic enamel paint in all shades on new woodwork or metallic or plastered or concrete surfaces to give an even shade (with first quality paint)	7180	Sqm.	9.40	125%	21.150	151857.000	10500.00	0.00	3320.00	0.00	70218
53	16.9	Applying priming coat with metal primer on new steel or iron work including preparation of surface with first quality paint)	1310	Sqm.	3.15	125%	7.088	9284.625	1310.00	0.00	0.00	0.00	0
54	16.17	painting two coats e/c primming coat with ready mixed paint for metallic surfaces in all shades on new steel or iron work to give an even shade (with first quality paint)	1310	Sqm.	7.00	125%	15.750	20632.500	1310.00	0.00	0.00	0.00	0
55	16.52	preparation of plaster surface for oil bound distemper including sand papering the surface, applying 1 coat of linseed oil and filling with approved quality filler consisting of white led, linseed oil, warnish and chalk mitti including finishing the surfa	29250	Sqm	11.15	125%	25.088	733809.375	29250.00	0.00	0.00	0.00	0
56	16.58	Distempering with washable oil bound distemper (of approved manufature) two coats over one priming coat on new work.	29250	Sqm	9.10	125%	20.475	598893.750	29250.00	0.00	0.00	0.00	0
57	16.61	Finishing walls with exterior decorative cement based paints such as snowcem, Robbiacem etc. on new work two coats to give an even shade.	19050	Sqm	7.25	125%	16.313	310753.125	19050.00	0.00	0.00	0.00	0
58	24.35	Providing and fixing prer ioulded bituminous joint filler, for expansion joints, including the cost of sealing compound and primer coat.								0.00	0.00	0.00	0
		(ii) 25mm wide	38000	Per mtr. per cm depth	3.75	325%	15.933	605625.000	33810.00	4190.00	0.00	66778.13	0
59		Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work for walls (10cm to 20cm thickness) (straight and curved) excluding steel reinforcement but including centering and shuttering laid in position, complete in all respects.										0.00	0
a)	10.87+10.95 (a)	First storey	15	cum	1486.90	370%	6988.430	104826.450	0.00	15.00	0.00	104826.45	0
b)	10.87+10.95+note (v) (b)	Second Storey	15	cum	1494.20	370%	7022.740	105341.100	0.00	15.00	0.00	105341.10	0
c)	10.87+10.95+note (v) (b)	Third storey	15	cum	1501.50	370%	7057.050	105855.750	0.00	15.00	0.00	105855.75	0
d)	10.87+10.95+note (v) (b)	Fourth storey	20	cum	1508.80	370%	7091.360	141827.200	0.00	20.00	0.00	141827.20	0
60		Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in facia, parapet and other thin vertical sections not covered by item no.10.82, 10.86 to 10.88 not exceeding (10cm) excluding steel reinforcement but including centering and shuttering laid in position, complete in all respects.										0.00	0
a)	10.89+10.95 (a)	First storey	15	cum	1708.95	370%	8032.065	120480.975	0.00	15.00	0.00	120480.98	0

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b)	10.89+10.95 (a)+note (v) (b)	d Stor	15	cum	1716.25	370%	8066.375	120995.625	0.00	15.00	0.00	120995.63	
c)	10.89+10.95(a)+note (v) (b)	Third storey	15	cum	1723.55	370%	8100.685	121510.275	0.00	15.00	0.00	121510.28	
d)	10.89+10.95(a)+note (v) (b)	Fourth storey	20	cum	1730.85	370%	8134.995	162699.900	0.00	20.00	0.00	162699.90	
61	10.81	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in shelves excluding steel reinforcement but including centering and shuttering laid in position, complete in all respects.											
a)	10.81	First storey	5	cum	947.70	370%	4454.190	22270.950	15.00	0.00	10.00	0.00	4454
b)	10.81+note v) (b)	Second Storey	5	cum	955.00	370%	4488.500	22442.500	11.00	0.00	6.00	0.00	2693
c)	10.81+note (v) (b)	Third storey	5	cum	962.30	370%	4522.810	22614.050	11.00	0.00	6.00	0.00	2713
d)	10.81+note (v) (b)	Fourth storey	5	cum	969.60	370%	4557.120	22785.600	11.00	0.00	6.00	0.00	2734
62	14.49	Fixing Marble stone flooring 17 mm and above thick slab including matching grains of marble laid in any pattern as specified over base of 12 mm thick cement course sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing i/c rubbing polishing i/c labour for fixing cramps, pins & dowels etc. (excluding the cost of marble)	500	Sqm	49.70	60%	239.520	119760.000	0.00	500.00	0.00	119760.00	
63		Supplying and fixing in position G.I Pipe class B spouts in chajjas and cantilevers											
	13.55 (e)	50mm internal dia GI pipe	50	Mtr	75.50	200%	226.500	11325.000	60.00	0.00	10.00	0.00	2265
64	15.80	Extra for lining out in rough cast /pebble cement plaster and terrazzo finish surfaces on walls to imitate stone or concrete block lining.	8500	Sqm	3.30	325%	14.025	119212.500	8500.00	0.00	0.00	0.00	
65	17.79 (b)	Providing & fixing helical doors spring 150mm (superior quality) including necessary screws complete Iron.	320	each	23.85	175%	65.588	20988.000	410.00	0.00	90.00	0.00	5902
66		Providing & fixing MS double acting spring hinges including necessary screws complete.											
	17.81 (b)	150mm	6	each	37.65	175%	103.538	621.225	6.00	0.00	0.00	0.00	
67	Item 13.62 of HSR.	Providing and laying four courses of water proofing treatment consisting of first and third course of blown type bitumen grade 85/25 applied hot at 1.6 kg per sqm. For each course and second course of fibre glass RP Tissue and fourth and final course of s	864	Sqm	31.00	200%	93.000	80352.000	0.00	0.00	0.00	0.00	
68	Item 13.64 of HSR.	Cement concrete 1:2:4 gola 10cmx10cm quadrant along junction of roof with parapet wall finished smooth where specially specified.	312	Mtr.	5.35	200%	16.050	5007.600	1050.00	0.00	738.00	0.00	118 4
69	15.15	20 mm thick cement plaster 4 in 2 coats work FR=20.15	0	Sqm	20.15	325%	85.638	0.000	1700.00	0.00	1700.00	0.00	1455 8
	15.15+ note 1	Second Storey FR=20.33	0	Sqm	20.33	325%	86.403	0.000	1600.00	0.00	1600.00	0.00	138244
	15.15+ note 1	Third Storey FR=20.51	0	Sqm	20.51	325%	87.168	0.000	1700.00	0.00	1700.00	0.00	148184
	15.15+ note 1	Fourth Storey FR=20.69	0	Sqm	20.69	325%	87.933	0.000	1400.00	0.00	1400.00	0.00	123109
	15.15+ note 1	Fifth Storey FR=20.87	0	Sqm	20.87	325%	88.698	0.000	620.00	0.00	620.00	0.00	54992

26

		BAS HSR- LAT NCT PRE V.E.F. 2008												
70	16.25	Applying priming coat with Cement primer in all shades on newly plastered or concrete exterior surfaces.	0	Sqm	4.15	125%	9.338	0.000	19050.00	0.00	19050.00	0.00	1778	9
71	16.79	Providing two coats of exterior acrylic emulsion paint												
	(b)	1st quality	0	Sqm	48.75	0%	48.750	0.000	19050.00	0.00	19050.00	0.00	9286	3
72	10.59	Cement concretre 1:2:4 with stone												
		(first storey)	0	cum	621.85	370%	2922.695	0.000	20.00	0.00	20.00	0.00	5845	
73	10.77	Precast cement concrete 1:2:4 with stone aggregate 20 mm nominal size in Kerbs and the like items, finished smooth with 6 mm thick cement plaster 1:3 on exposed surface including from work, placing and fixing in position, complete at the ground level or in first storey.	0	cum	942.50	370%	4429.750	0.000	35.00	0.00	35.00	0.00	1550	4
74	17.97	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded I type II in paneelling fixed in aluminium doors. Windows shutters and partition frames with C.P. brass/stainless steel screws etc. complete												
	(b)	Pre-laminated particle board with decorative lamination on both side.	0	Sqm	780.30	0%	780.300	0.000	30.00	0.00	30.00	0.00	2340	
75	17.102	Providing fixing aluminium round shape handle of outer dia 100mm with screws etc. complete												
	(i)	Anodized (AC-15) aluminium	0	each	45.30	0%	45.300	0.000	50.00	0.00	50.00	0.00	226	
76	17.100	Providing aluminium jali of thickness 7 mm thick with opening-75mmx75mm of including anodizing and fixing in frame with cost of screws etc. complete	0	Sqm	1543.00	0%	1543.000	0.000	40.00	0.00	40.00	0.00	6172	
77	11.56	First class brick tile masonary with 22.88cmx 11.43cmx 3.81cm tukes laid in cement sand mortar 1:4 in first storey upto 4 meter above plinth level 1st storey FR=805.30	0	Cum	805.30	350%	3623.850	0.000	2.00	0.00	2.00	0.00	724	
	+note(vi)(a)	Second Storey FR=813.55	0	Cum	813.55	350%	3660.975	0.000	2.00	0.00	2.00	0.00	732	
	+note(vi)(a)	Third Storey FR=821.80	0	Cum	821.80	350%	3698.100	0.000	2.00	0.00	2.00	0.00	739	
	+note(vi)(a)	Fourth Storey FR=830.05	0	Cum	830.05	350%	3735.225	0.000	2.00	0.00	2.00	0.00	747	
78	17.53	17.53 Providing and fixing beading to door and window chowkats of commercial hard wood such as hollock, champ, chikrassy and chaplash etc., (non-coniferous timber other than teak, conforming to I.S. specification no.1003, kiln-seasoned) iron screws fixed in position, complete as per design and shape required-												
		(a) 50 mm X 12 mm	0	Mtr	8.80	175%	24.200	0.000	1350.00	0.00	1350.00	0.00	3267	
79	11.42	Extra for brickwork in Square or rectangular in buildings	0	cum	12.40	350%	55.800	0.000	80.00	0.00	80.00	0.00	446	
80	11.77	Dressed or moulded two brick cornice laid in cement sand mortar 1:4 including 12 mm thick cement plaster 1:4 or pointing, as required.	0	Mtr	16.30	350%	73.350	0.000	810.00	0.00	810.00	0.00	5941	
81	15.79	20 mm thick raised or sunk cement mortar band/ drip course in cement mortar 1:4	0	Per metre per cm Width	0.45	325%	1.913	0.000	4200.00	0.00	4200.00	0.00	803	

		(BA[redacted]N HS[redacted]& LA[redacted]ANC[redacted]D PRE[redacted]W.E.H[redacted]-200[redacted]											
82	14.44	Precast terrazzo tiles of 20mm minimum thickness in cement as specified below with marble chips of size and colour as required laid on 20 mm thick bed of cement coarse sand mortar 1:3 with neat cement slurry, between joints and over the base in floors, treads of steps and landings including rubbing and polishing.											
	(a)	in ordinary grey cement first storey FR=129.70	0	Sqm	129.70	370%	809.590	0.000	810	0.00	810.00	0.00	492 7[illegible]
		-do- (second storey) Fr=130.00	0	Sqm	130.00	370%	811.000	0.000	820	0.00	820.00	0.00	501 [illegible]
		-do- (third storey) FR=130.30	0	Sqm	130.30	370%	812.410	0.000	845	0.00	845.00	0.00	517 [illegible]
		-do- (forth storey) FR=130.60	0	Sqm	130.60	370%	813.820	0.000	845	0.00	845.00	0.00	518 [illegible]
83	14.47	Precast terrazzo tiles of 12.5 mm minimum thickness in cement as specified below with marble chips of size and colour as required laid on 10 mm thick cement coarse sand plaster 1:3 and jointed with neat cement slurry in skirting dado and risers of steps, including rubbing and polishing complete.											
		in ordinary grey cement first storey FR=108.05	0	Sqm	108.05	370%	507.835	0.000	140	0.00	140.00	0.00	7[illegible] [illegible]
		-do- (second storey) Fr=108.35	0	Sqm	108.35	370%	509.245	0.000	140	0.00	140.00	0.00	7[illegible] [illegible]
		-do- (third storey) FR=108.65	0	Sqm	108.65	370%	510.655	0.000	145	0.00	145.00	0.00	7[illegible] [illegible]
		-do- (forth storey) FR=108.95	0	Sqm	108.95	370%	512.065	0.000	145	0.00	145.00	0.00	7[illegible] [illegible]
84	9.9	Centring and shuttering for columns square or rectangular or polygonal in plan 5th storey	0	Sqm	51.85	225%	168.513	0.000	271	0.00	271.00	0.00	4[illegible] [illegible]
								61962727.30			Total Sch	9332846.38	19568[illegible]
											NS	237000.00	357[illegible]
											Grand Total	9569846.38	2314[illegible]

Cont. Premium 17.15%	1357[illegible]
Total Civil Enhanced Amt.	175492
Total PH Enhanced amount	1532567
Total Civil +PH enchance amout	50183
Total agreement amount Civil+PH+EI	1582750
Total amount to be approved	9031873
Cycle Stand	10614[illegible]
Total Amount to be approved	108[illegible]
Total Enhancement amount	1072327[illegible]
Total Percentage of Enhancement	1691406
	1

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

Item No. 14.4 **To consider & approve the revised cost estimate for the construction of MBA/MCA Block – a Two storey framed structure Building at NIT, Kurukshetra.**

The B & WC in its 11th meeting held on 28.07.2009 approved the preliminary cost estimate of Rs.526.3 lac for the construction of MBA/MCA Building at NIT, Kurukshetra.

The work of the above said building is under construction, during execution of this work quantities of a few items have increased because of detailed structural design and drawings & design and in addition of a few items as suggested by the architects and request made by Head of Departments of Computer Applications and Business Administration for the provision of false ceiling in this building.

In view of the circumstances explained as above the revised cost estimate amounting to Rs.586.48 lac. has been framed and duly scrutinized by the Construction Cell to cover the cost of additional items & quantities.

It is therefore requested that B & WC may kindly consider and approve the revised cost estimate amounting to Rs.586.48 lac. for the above cited work.

Construction of MBA & MCA Block-A Two Storey framed sturcture Building at NIT, KURUKSHETRA

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount R
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
1	30.41	P/F in position best Indian make lavatory Suites											
		White											
	(iv)	Size 550mmx400mm with one no. tap	36	Each	407.00	250%	1424.50	51282	36.00	0.00	0.00	0	
2	30.45	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	36	Each	92.00	250%	322.00	11592	36.00	0.00	0.00	0	
3	30.48	P/F in position 32mm diameter G.I.waste pipe embedded in wall	32	Each	98.00	250%	343.00	10976	36.00	0.00	4.00	0	1
4	30.50	P/F in position best Indian make C.P. brass bottle traps 32mm diameter	32	Each	92.00	250%	322.00	10304	36.00	0.00	4.00	0	1
5	30.67	P/F in position best Indian make paper holder fixed into C.P. including cutting & making good the walls etc.											
	(a)	C.P. brass	34	Each	27.50	250%	96.25	3273	34.00	0.00	0.00	0	
6	30.69	P/F in position glass shelf fixed in with rawl plugs with C.P. brass screws complete including cutting & making good the walls etc.											
	(a)	With C.P. brass bracket and guard rail											
	(i)	(i) 600mm x 125m	32	Each	72.50	250%	253.75	8120	32.00	0.00	0.00	0	
7	30.71	P/F in position best Indian make bevelled edge 5.5mm thick mirror fixed in position by means of 4 nos. C.P. brass screws and washers complete including cutting and making good the walls etc.											
	(a)	Indian make											
	(i)	600 mm x 450mm	32	Each	107.00	250%	374.50	11984	36.00	0.00	4.00	0	
8	30.74	Providing and fixing in position super quality 65 mm l/d opening CP brass dome type hinged grating weighting about 750 gms. Fixed in cement mortar 1:2 complete in all respects (as required by the Engineer-in-charge).	40	Each	67.50	250%	236.25	9450	40.00	0.00	0.00	0	
9	30.75(a)	Providing & fixing in position 15mm i/d C.P. brass bib cocks of best quality (as required by the Engineer-in-charge)											
	(a)	Bib cock long body	36	Each	116.00	250%	406.00	14616	20.00	16.00	0.00	6496	
	(C)	Bib cock	0	Each	100.00	250%	350.00	0	36.00	0.00	36.00	0	1

Construction [illegible]A & [illegible] Block [illegible]o Sto[illegible]amed[illegible]ture [illegible]ng at [illegible]URU[illegible]TRA[illegible]

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
10	30.76	P/F in position C.P. brass stop cocks (as approved by Engineer-in-charge)								0.00	0.00	0	
	(a)	15mm stop cocks											
	(ii)	Concealed stop cocks with flange	62	Each	130.00	250%	455.00	28210	40.00	0.00	0.00	0	
11	30.84	P/F in position HCI soil, waste, vent pipes to ISI specification or any other reputed firm including cutting & wastage etc. & cutting holes in walls, roofs or floor etc. and making good the floor & wall but excluding cost of lead jointing.								22.00	0.00	10010	
	(a)	100mm internal diameter	300	Mtr.	97.50	300%	390.00	117000	300.00	0.00	0.00	0	
	(b)	75mm internal diameter	600	Mtr.	83.00	300%	332.00	199200	200.00	400.00	0.00	132800	
12	30.87	Providing lead caulked joints to HCI pipes & specials conforming to ISI specification of ELC or any other reputed firm including cost of lead yarn, fuel & tools etc.								0.00	0.00	0	
	(a)	100mm internal diameter (1.13 kg)	180	Each	33.50	225%	108.88	19598	250.00	0.00	70.00	0	76[illegible]
	(b)	75 mm internal diameter (0.91 kg)	260	Each	27.50	225%	89.38	23238	200.00	60.00	0.00	5362.5	
13	30.88	Providing and fixing in position MS or Heavy flat iron clamps made out of MS flat not less than 5 mm of the approved design for fixing CI Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting								0.00	0.00	0	
	(a)	For 100 mm internal diameter pipes	120	Each	12.50	300%	50.00	6000	120.00	0.00	0.00	0	
	(b)	For 75 mm internal diameter pipes	90	Each	11.00	300%	44.00	3960	90.00	0.00	0.00	0	
14	30.89	P/F HCI floor trap ISI marked of the self-cleaning design with C.P. brass hinged grating with or without vent arm & including cement concrete 1:2:4 complete in all respects											
	(b)	With 75mm internal diameter outlet	56	Each	105.00	300%	420.00	23520	56.00	0.00	0.00	0	

Co ction A & Block o Sto amed ture ng at URL TRA

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. In Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
15	30.90	PROVIDING AND FIXING IN POSITION HCI 50mm INTERNAL DIAMETER OUTLET PLAIN NAHAN TRAP ISI Marked of the self cleaning design with CP BRASS HINGED GRATING WITH FRAME WEIGHING 6.80 KG EACH FIXED complete as fully described in item no. 30.89 above.											
	(b)	75 mm i/d outlet plain Nahani Trap.	16	Each	100.00	300%	400.00	6400	16.00	0.00	0.00	0	
16	30.91	P/F in position HCI specials for soil waste vent pipes to ISI specification including cutting holes in walls & making good but excluding cost of lead joints											
	(a)	For 100mm internal diameter pipes											
	(i)	Heal rest	26	Each	58.00	300%	232.00	6032	18.00	8.00	0.00	1856	
	(ii)	Double junctionwith door 100mmx100mmx100mmx100mm	24	Each	99.00	300%	396.00	9504	0.00	24.00	0.00	9504	
	(iii)	Pass over pipe	24	Each	86.50	300%	346.00	8304	0.00	24.00	0.00	8304	
	(vi)	Single junction with door 100x100x100mm	24	Each	76.50	300%	306.00	7344	18.00	6.00	0.00	1836	
	(v)	Double junction plain 100x100x100mm	2	Each	60.00	300%	240.00	480	0.00	2.00	0.00	480	
	(vi)	Single junction plain 100x100x100mm	4	Each	53.00	300%	212.00	848	0.00	4.00	0.00	848	
	(vii)	Single junction with door 100x100x50mm	16	Each	39.50	300%	158.00	2528	0.00	16.00	0.00	2528	
	(viiii)	Double junctionwith door 100mmx100mmx50mmx50mm	16	Each	36.50	300%	146.00	2336	0.00	16.00	0.00	2336	
	(ix)	Single junction with door 100x100x50mm	20	Each	27.50	300%	110.00	2200	0.00	20.00	0.00	2200	
	(xvi)	Cowls	0	Each	36.50	300%	146.00	0	18.00	0.00	18.00	0	
	(xxii)	Collars	0	Each	27.50	300%	110.00	0	20.00	0.00	20.00	0	
	(b)	For 75mm internal diameter pipes											
	(i)	Heal rest	32	Each	39.50	300%	158.00	5056	15.00	17.00	0.00	2686	
	(iv)	Single junctionwith door 75mmx75mmx75mm	22	Each	59.00	300%	236.00	5192	15.00	7.00	0.00	1652	
	(iii)	Bend with door	24	Each	42.00	300%	168.00	4032	0.00	24.00	0.00	4032	
	(vi)	Bend plain	22	Each	39.50	300%	158.00	3476	0.00	22.00	0.00	3476	
	(v)	Terminal guard	2	Each	27.50	300%	110.00	220	0.00	2.00	0.00	220	
	(vi)	Cowls	2	Each	28.00	300%	112.00	224	15.00	0.00	13.00	0	
	(vii)	Collars	18	Each	22.50	300%	90.00	1620	15.00	3.00	0.00	270	

Construction of A & Block of Storey framed structure building at NIT, KURUKSHETRA

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
17	30.95	Cutting chase in brick wall in cement for embedding G.I. or HCI pipe lines & making good the same											
	(a)	Size 75x75mm	172	Mtr.	6.00	250%	21.00	3612	172.00	0.00	0.00	0	
18	30.101	Painting HCI soil waste and vent pipes and fittings with black bitumastic ordinary paint of approved manufacture two coats on new work.											
	a)	(a) 100 mm internal diameter	240	MTR	1.85	250%	6.48	1554	240.00	0.00	0.00	0	
	b)	(b) 75 mm internal diameter	218	MTR	1.35	250%	4.73	1030	218.00	0.00	0.00	0	
19	30.110	P/F in position automatic brass ball valves in tanks											
	(b)	With plastic ball											
		(iii) 25mm diameter	10	Each	39.00	250%	136.50	1365	10.00	0.00	0.00	0	
20	30.114	P/F in position Gully traps fixed in cement concrete 1:4:8 with HCI grating 150x150mm CI cover weighing approximately 7.26 kg & frame clear opening 300 x 300mm and chamber including cost of brick work 1:5 cement concrete 1:8:16 and C.C. 1:2:4 in coping											
	(b)	100mm internal diameter HCI gully traps	22	Each	208.00	300%	832.00	18304	16.00	6.00	0.00	4992	
21	30.115	Providing and fixing in position best Indian make vitreous china ware channel of size 600 mm x 150 including laying and fixing in cement concrete 1:2:4 complete as required by the Engineer-in-charge.								0.00	0.00	0	
	(i)	White	20	Each	92.00	250%	322.00	6440	20.00	0.00	0.00	0	
22	28.24	Cutting holes upto 23cm through brick work in cement wall for pipes and making good											
	(a)	11.43cm thickness of walls	16	Each	14.00	250%	49.00	784	16.00	0.00	0.00	0	
	(b)	22.86 cm. thickness of walls	16	Each	20.35	250%	71.23	1140	16.00	0.00	0.00	0	
23	29.84	Constructing brick masonry inspection chamber upto 60 mtr.depth in cement mortar 1:5 cement concrete 1:2:4 benching, 12mm thick cement plaster, RCC 1:2:4 slab 100mm thick with with 455x455 mmx455x610mm inside light duty GI inspection chamber cover & frame with 3 coats of black bitumastic paint											
	(c)	Size 600x900mm inside	18	Each	690.00	375%	3277.50	58995	12.00	6.00	0.00	19665	

Construction of MBA & MCA Block-A Two Storey framed structure building at NIT, KURUKSHETRA

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

Sl. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
24	29.85	Extra for every 0.30 mts. depths of inspection chamber											
	(c)	600mmx900mm	18	Each	139.00	375%	660.25	11885	25.00	0.00	7.00	0	46
25	6.8	Excavation for pipelines running under pressure in trenches and pits in open areas where disposal of surplus earth is done alongwith the alignment and restoration of unmetalled surface to the original condition											
	(a)	Without timbering and shoring upto 1.5 meters depth	225	100 Cum	1030.00	300%	4120.00	9270	25.00	200.00	0.00	8240	
26	6.10	Excavation of trenches in street lanes or in open area for storm sewer, sewers running by gravity & man holes to full depth and removal of surplus soil upto to a lead of 1Km in ordinary soil											
	(a)	For depth of excavation not exceeding 3 mts. below ground level	195	100 Cum	1189.00	300%	4756.00	9274	100.00	95.00	0.00	4518.2	
27	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	46	Cum	403.10	340%	1773.64	81587	15.00	31.00	0.00	54982.84	
28	10.41	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in foundation and plinth	25	Cum	615.60	340%	2708.64	67716	5.00	20.00	0.00	54172.8	
29	10.59	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in in first storey upto 4 metres above plinth level											
	10.50+ note (v)(b)	-do- (first storey)	1	Cum	621.85	340%	2736.14	2736	1.00	0.00	0.00	0	
	10.50+ note (v)(b)	-do- (second storey)	2	Cum	624.40	340%	2747.36	5495	2.00	0.00	0.00	0	
30	30.83	Providing and fixing in position best Indian make CP brass inlet connection 15mm with 375mm pipe and CP Brass nuts.	0	Each	115.00	250%	402.50	0	122.00	0.00	122.00	0	
31	30.26	Providing & fixing in position best indian make a range of two urinals large flat back or angular lipped front 610 mm high in viterous chinaware with 5 liters capacity best indian make C.I. automatic flushing cistern with fittings and flush pipe etc. completes as fully described in item no-30.25 above **Range of two Urinals**											
	(a)	White	0	Each	1327.00	250%	6394.50	0	8.00	0.00	8.00	0	

Co[illegible]ction [illegible]A & [illegible]Block [illegible]o Sto[illegible]med[illegible]ture [illegible]g at [illegible]URU[illegible]TRA

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Exce s Amoun Rs.
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)											
32	30.37	Extra for providing and fixing vitreous automatic flushing cistern including fittings and brackets instead of CI flushing cistern complete.											
	(b) (i)	10 Ltrs capacity Cistern white	0	Each	201.00	250%	703.50	0	14.00	0.00	14.00	0	9849
33	30.2	P/f in position best Indian type Orissa or Oriya water closet suite complete with 100mm HCI "P" trap and all other necessary fittings as per 30.1(Full @ 925. each)	0	Each	925.00	250%	3237.50	0	6.00	0.00	6.00	0	19425
		TOTAL SCHEDULE ITEMS:						**899304.15**				343467.34	1648[illegible]20.0[illegible]
								Saving in Schedule items					1786[illegible]7.3[illegible]
								Add 32%					571[illegible]7.1[illegible]
								Total Saving					2358[illegible]4.4[illegible]

Con tion BA A B A T orey ned ucture uilding at NIT,
KURUKSHETRA

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount R
		SUB PART-III: INTERNAL PH SERVICES (NON SCHEDULE ITEMS)											
1	NS	Providing & fixing I white vitreous (Europeamn type) water closet litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40mm flush bend, oveerflow araangement with specials of standard maje and mosquito proof coupling of approved municipal design complete including painding oos fittings and brackets, cutting and making good the walls and floors wherever required.	36	Each	5000.00		5000.00	180000	34	2	0	10000	
2	N.S	Providing & laying Cement Concrete 1:2:4 75mm in bed and around C.I. Soil waste pipe 100mm and 75mm i/d under floor including centering and shuttering where required.											
	(a)	100mm dia	135	Mtr.	300.00		300.00	40500	120	15	0	4500	
	(b)	75 mm dia	160	Mtr	240.00		240.00	38400	90	70	0	16800	
3	NSR	Providing, laying, jointing glazed stoneware pipes grade A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement, 1 fine sand) including testing of joints etc. complete.											
		150mm i/d	100	Mtr.	150.00		150.00	15000	100	0	0	0	
	(b)	200mm i/d	250	Mtr.	230.00		230.00	57500	50	200	0	46000	
4	NS	Providing and fixing of G.M. Peat valves heavy patterns with hand wheels ISI marked to GI pipe lines.											
	(a)	25mm i/d	20	Each	350.00		350.00	7000	20	0	0	0	
	(b)	40mmi/d	20	Each	900.00		900.00	18000	20	0	0	0	
	(c)	50mmi/d	20	Each	1250.00		1250.00	25000	5	15	0	18750	
5	NSR	Providing, testing and fixing in position G.I. pipe 'B'class medium duty in ground including cost of specials such as elbow, bend, tees etc. cutting, threading complete in all respect to the satisfaction of Engineer-in-charge											
		15 mm i/d	400	Mtr.	120.00		120.00	48000	150	250	0	30000	
		20 mm i/d	250	Mtr	144.00		144.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

		mm		M	19		190.	0	20				00
		40 mm i/d	100	Mtr.	250.00		250.00	25000	100	0	0	0	
		50 mm i/d	300	Mtr.	300.00		300.00	90000	50	250	0	75000	
		80 mm i/d	150	Mtr.	480.00		480.00	72000	10	140	0	67200	
6	NSR	Extra for providing and fixing union coupling to G.I. pipe lines including cost of union complete											
		15mm i/d	40	each	50.00		50.00	2000	40	0	0	0	
		20mm i/d	25	each	78.00		78.00	1950	25	0	0	0	
		25mm i/d	20	each	100.00		100.00	2000	20	0	0	0	
		40mm I/d	10	each	180.00		180.00	1800	10	0	0	0	
		50mm I/d	10	each	200.00		200.00	2000	10	0	0	0	
		80mm I/d	5	each	288.00		288.00	1440	5	0	0	0	
7		Providing and stringing S & S centrifugally cast (spun) iron pipes (Class LA) complete in trenches to the approval of Engineer-in-charge.											
		80mm i/d	50	Mtr.	925.00		925.00	46250	5	45	0	41625	
8		Supplying and fixing ISI marked sluice valve double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge. 80 mm	1	Each	3000.00		3000.00	3000	1	0	0	0	
9		Const. of sluice valve haudi 1m x 1m x 1m with brick work 1:5 cement sand mortar finished with 12.5mm cement plaster 1:4 including RCC 1:2:4 slab with reinforcement, surface box complete in all respect to the approval of Engineer-in-charge.	1	Each	3000.00		3000.00	3000	1	0	0	0	
10		Providing and fixing in position H.D.P.E. water tanks complete with inlet, outlet, scour and overflow flanges including masonry based underneath as approved by the Engineer-in-charge of different capacity tanks complete in all respect											
		Capacity upto 2000 litres	20000	Ltrs.	7.00		7.00	140000	20000.00	0	0	0	

11		Const[redacted] bri[redacted]sonry [redacted]hole in cement mortar 1:3 (1cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1cement:2coarse sand: 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8mix (1cement:4coarse sand :8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement :3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2coarse sand :4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :											
		Inside Size 120x90cm and 90 cm deep including SFRC Cover with frame (Heavy duty) 580mm internal diameter											
		With Sewer bricks	1	Each	9000.00		9000.00	9000	1	0	0	0	
12	NSR	Extra for depth for manholes											
		Size 120x90cm											
		With Sewer bricks	2	Mtr.	2500.00		2500.00	5000	2	0	0	0	
13	NSR	Making sewer connection with the existing sewer line	1	Each	1000.00		1000.00	1000	1	0	0	0	
14	NSR	Providing M.S. foot rests including fixing in manholes with 20x20x10cm cement concrete blocks 1:3:6 (1cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size) as per standard design :											
		With 20x20mm square bar	30	Each	150.00		150.00	4500	30	0	0	0	
		TOTAL NON-SCHEDULE ITEMS:						**913340.00**				**335155.00**	
		Total Saving											335155

All china ware should be of CERA/HINDWARE/HINDUSTAN PERRYWARE Make Ist quality or as directed by the Engineer-In-Chief
All C.P. fittings/fixtures should be of SEIKO/PARKO/ Chilly make.
All PIPE SHOULD BE JINDAL / TATA MAKE or as directed by the Engineer-In-Chief

Construction of MBA & MCA Block-A Two Storey Structure Building at NIT Kurukshetra

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	Amount	Qty. to be reduced	Qty. in excess	Saving Amount Rs.	Excess Amount Rs.
					Non Schedule items					
		SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE								
53	NS	Providing and fixing aluminium work for doors windows . Ventilators and partitions with exturded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to plugs and screws or with fixing clips. Or with expansion hold fasterers including nedcessary filling up of gaps at junctions. at top bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight mitred and jointed mechanically wherever required including cleat angle , panelling. C.P. bras/ stainless steel sctrews, all complete as per architectural drawings and the directions of Engineer -in -charge. (Glazing and panelling to be paid for separately) Polish of 15 micron (Jindal Co. Make)								
		For fixed portion								
	NS(a)	Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, minimum anodiccoating of gradeAC-15)	100.00	Kg	375.00	37,500.00	165.00	-	65.00	-	24,375
	NS(b)	For shutters of doors, window & ventilators including rovidin) and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/ neoprene gasket rquired(Fittings shall be paid for separately)	144.00	Kg	375.00	54,000.00	110.00	34.00	-	12,750.00	
54	NS	Providing and fixing Glazing in aluminium work for doors windows . Ventilators and shutters and part tions with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(cost of alumunium snap beading shall be paid in basic item)								
		With float glass panes of 5.50mm thickness	22.00	Sqm	550.00	12,100.00	30.00	-	8.00	-	4,400
55	NS	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS :6315 marked, for doors including cost of cutting floors as required embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge								
		With stainless steel cover plate	4.00	Nos	1,700.00	6,800.00	8.00	-	4.00	-	6,800

Construction of MBA & MCA Block-A Two Storey Structure Building at NIT Kurukshetra (BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM											
					Non Schedule items		Qty. finally to be executed	Qty. in Saving	Qty. in Excess	Saving Amount Rs.	Excess Amount
Sr. No.	HSR No.	Description	Qty.	Unit	Rate	Amount					
		SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE									
56	NS	Providing and laying polished vitrified floor tiles in different sizes(thickness to be specified by the manufacturer) with water absorptions less than 0.08%and conforming to IS:15622 of approved make in all colours and shades laid on 20mm thick cement mortar 1:3 (1Cement 3coarse sand)including grouting the jopints wtSih white cement and matching pigments etc.complete.(made as per approvel of Engineer-in-charge)									
		Size of Tile 60x60cm	1875.00	Sqm	950.00	1,781,250.00	3,450.00	-	1,575.00	-	1,496,25
57	NS	Providing and fixing 18mm thick mirror polished, machine cut for kitchen plateforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 with joints treated with									
		Granite stone	13.00	Sqm	2,600.00	33,800.00	125.00	-	112.00	-	291,20
58	NS	Extra for providing edge moulding to granite stone counters including machine plishing to edge to give high gloss finish etc. complete in all respects.	38.00	Mtr	150.00	5,700.00	150.00	-	112.00	-	16,80
59	NS	Providing and fixing first class coloured glazed tiles (of orient/Kajaria make) of size 200x300mm with minimum thickness 5mm in skirting and dado on 12mm thick cement plaster 1:3(1Cement 3Sand) the back of tiles tobe buttered with gre(as per approvel of Engineer-in-charge)	792.00	Sqm	500.00	396,000.00	792.00	-	-	-	
60	NS	Providing and laying in floor coloured matt finish ceramic tiles of orient/Kajaria make, size 300x300mm (thickness as per manufacture) without warpage laid on 20mm thick cement mortar 1:3(1 cement 3sand) including grouting the join	180.00	Sqm	600.00	108,000.00	160.00	20.00	-	12,000.00	

Co[redacted]uctio[redacted]MB/[redacted]CA [redacted]-A T[redacted]tore[redacted] Qty.[redacted]y to b[redacted]uted [redacted]Qty. i[redacted]ng [redacted]in Ex[redacted] Savi[redacted]ount Exce[redacted]oun

Structure Building at NIT Kurukshetra

(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM

Sr. No.	HSR No.	Description	Qty.	Unit	Non Schedule items Rate	Amount					
		SUB PART I: INTERNAL CIVIL WORKS (SCHEDULE									
61	NS	Providing and fixing in position stainless steel Hand Rails system (Aravalli Craft, Cannon or equivalent) including mid rails welded built-up section using pipes and connalecting plated of stainless steel grade 304 polished to satin finish, of required diameter and thickness including cutting, welding, griding, bending to required profile and shape hoisting, buffing, polishing, cutting chases / embendding in RCC / masonry, fixing with stainless steeel (grade 304) screws, nuts,bolts, rossette covers and washers or stainless steel fasteners to amed it rigidly fixed and stable against and impact force with necessary bends and terminations having in fill of 12mm thick toughened glass or 2mm	0.00	Kg	490.00	-	3,000.10	-	3,000.10	-	1,470,049
62	NS	Providing & fixing wall paneling with perforated 12 mm thick best quality Louvertonetiles fixed on M.S steel runners frames l/ccost of screws, angles, cleats rowel plugs etc. complete in all respect l/c 24 grade 50 mm thick wool on back side l/c tapes on joint complete in all respect as per approval of Engineer-in-	0.00	Sqm	900.00	-	95.00	-	95.00	-	85,500
						2,435,150.00				24,750.00	3,395,374.
											24,750.
							Difference in Excess				3,370,624.

Construction of MBA & MCA Block-A Two Storey Structure Building at NIT Kurukshetra

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving Amount	Qty. in Excess	Saving Amount Rs.	Excess Amour Rs.
		SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)											
1	6.6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs. depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry in 15 cm layers with compaction, including disposal of all surplus soil as directed within a lead of 30 mtrs.	4600.00	100 Cum	11.08	350%	49.86	229376.70	3328.56	1271.44	0.00	63399.72	0.
2	6.27	Clearing grass and removal of the rubbish upto distance of 50m outside the periphery of the area cleared.	2800.00	100 Cum	0.21	300%	85.80	240240.00	2800.00	0.00	0.00	0.00	0
3	10.39+note	Cement concrete 1:4:8 with stone aggregatret 40mm nominal size in foundation and plinth (bellow 1.5 m depth)	342.00	Cum	405.65	340%	1784.86	610422.12	245.00	97.00	0.00	173131.42	0
4	10.56	Cement concrete 1:4:8 with stone aggregate 20mm nominal size in first storey upto 4 metres above plinth level.	201.00	Cum	426.25	340%	1875.50	376975.50	2.00	199.00	0.00	373224.50	0
5	10.90+ 10.95(b)	Cement concrete 1:1:2 with stone aggregate 20mm nom,inal size for reinforced concerete work in footing, strips foundations beams rafts, pedestals and approach slabs, of bridges ets. Exculding steel reinforcement and including centring & shuttering, laid in position, complete in all respects (for work upto 1.5 metres below ground level.)	1054.00	Cum	942.40	340%	4146.56	4370474.24	1064.00	0.00	10.00	0.00	41 65
6	10.82+ 10.95(b)+note	Cement concrete 1:1:2 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inclinaition not exceeding 25 degree with horizontal, excluding steel reinforcement, but including centring and shuttering laid in position complete in all respect											0
		Ist storey	300.00	Cum	1253.20	340%	5514.08	1654224.00	220.00	80.00	0.00	441126.40	0
		IInd storey	300.00	Cum	1260.50	340%	5546.20	1663860.00	220.00	80.00	0.00	443696.00	0

		IIIrd storey	10.00	Cum	1267.80	340%	5578.32	55783.20	1.00	9.00	0.00	50204.88	0.00
7	10.86+10.95(b)+note	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work for wall exceeding 20cm thickness (straight and curved)beams,girders,stair, coloums (square or rectangular) battens and lintels etc.excluding steel reinforcement but including centring and shuttering, laid in position complete in all										0.00	0.00
	a)	Ist storey	600.00	Cum	1357.15	340%	5971.46	3582876.00	398.00	202.00	0.00	1206234.92	0.0
	b)	Iind storey	350.00	Cum	1364.45	340%	6003.58	2101253.00	250.00	100.00	0.00	600358.00	0.0
	c)	IIIrd storey	20.00	Cum	1371.75	340%	6035.70	120714.00	17.00	3.00	0.00	18107.10	0.0
8	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm. laid hot and sanded.	140.00	Sqm	35.05	340%	154.22	21590.80	110.00	30.00	0.00	4626.60	0.0
9	10.132	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavement, roads, taxi-tracks and run ways, laid to required slope and camber, i/c consolidation, finishing and tamping concrete	150.00	Cum	642.40	340%	2826.56	423984.00	85.00	65.00	0.00	183726.40	0.0
10	11.2	First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.	290.00	Cum	393.45	400%	1967.25	570502.50	155.00	135.00	0.00	265578.75	0.0
11	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meter above plinth level.										0.00	0.0
	(i)	-do(first storey)	208.00	Cum	414.45	400%	2072.25	431028.00	245.00	0.00	37.00	0.00	76673.2
	(ii)11.7+11.41(i)	-do- (second storey)	215.00	Cum	422.70	400%	2113.50	454402.50	245.00	0.00	30.00	0.00	63405.0
	(iii)11.7+11.41(i)	-do-(third storey)	60.00	Cum	430.95	400%	2154.75	129285.00	155.00	0.00	95.00	0.00	204701.2
12	11.48(a)	11.4 cm thick brick walll laid in cemnet sand mortar 1:4 in superstructure.										0.00	0.0
	(i)	-do(first storey)	905.00	Sqm	55.10	400%	275.50	249327.50	670.00	235.00	0.00	64742.50	0.0
	(ii)	-do- (second storey)	753.00	Sqm	56.05	400%	280.25	211028.25	790.00	0.00	37.00	0.00	10369.2

13		ng c ng o s 22.86x11.43x3.81cm laid over 87.50 mm iud filling on a layer 25mm mudplasterand another layer of mud mortar for laying the tiles, including two coats of bitumen laid hot at 1.65 Kg per sqm on top of RCC slab including grouting with cement sand mortar 1:3 and top surface to be left clean etc.											0.00	0.
		IIIrd storey	2210.00		53.95	400%	269.75	596147.50	1640.00	570.00	0.00	153757.50		0.0
14	13.44(a)	Providing and laynig 100mm dia H.C.I. pipe I.S.I. mark including dfilling joints with lead and spun yarn etc. complete fixed in position under floors.	180.00	Mtr.	93.05	350%	418.73	75370.50	0.00	180.00	0.00	75370.50		0.0
15	13.46(a)	Extra over rate of item Nos. 13.43 and 13.45(a) in case lead joints are used instead of cement joints	230.00	per joint	24.30	350%	109.35	75370.50	0.00	230.00	0.00	25150.50		0 0
16	13.49	Providing and fixing C.I plain bends in position with gutter etc.										0.00		0.0
	a)	For 100mm dia	40.00	Each	57.45	350%	258.53	10341.00	0.00	40.00	0.00	10341.00		0 0
17	13.50	Top Khurra 0.6x0.6m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50 mm thick cement concrete 1:8:16.	20.00	Each	12.30	200%	36.90	738.00	20.00	0.00	0.00	0.00		0 0
18	13.62	Providing and laying four courses of water proofing treatment consisting of first and third course of blown type bitumen grade 85/25 applied hot at 1.6 Kg per sqm for each course and second course of fibre glass R.P tissue and fourth and final course of stone grit 6mm and down size or pea sized frit spread at 0.006 cum per Sqm including preparation of surface.	220.00	Sqm	31.00	200%	93.00	20460.00	0.00	220.00	0.00	20460.00		0 0
19	13.66	Providding and laying cinder concrete in cement 1:15(1 cement and 15 cinder)on terraced roofs & (Ist storey) laid to slope including consolidating the same.										0.00		0 0
		-do second storey	46.00	Cum	214.65	200%	643.95	29621.70	10.00	6.00	0.00	3863.70		0 0
20	14.1-10.26 Based derived rate	Sand filling under floor i/c laying consolidation, compaction & watering etc.	3806	Cum	69.30	340%	304.92	1160525.52	2820.00	986.00	0.00	300651.12		0 0

21		[redacted] urse[redacted]or co[redacted]g of 100mm thick cement concrete 1:8:16 and 100mm sand or stone filling	[redacted]	Sqm	[redacted]6.95	[redacted]0%	[redacted]62.56	[redacted]1.94	[redacted]00	[redacted]393	[redacted].00	[redacted]638	0.
22	14.3	Floating coat of 1.50mm thick neat cement laid in one operation to the topping	420	Sqm	3.70	340%	16.28	6837.60	490.00	0.00	70.00	0.00	1139.6
23	14.4	Screed of 50mm thick cement concrete 1:8:16 to be laid below the topping.											
		-do- (second storey)	1343	Sqm	15.65	340%	68.86	92478.98	1450.00	0.00	107.00	0.00	736[illegible] 0
		-do-(third storey)	10		15.95	340%	70.18	701.80	10.00	0.00	0.00	0.00	(0
24	14.10	Conglomerate floor 50mm thick cement concrete topping 1:2:4										0.00	(0
		-do- (First storey)	610	Sqm	37.60	340%	165.44	100918.40	498.00	112.00	0.00	18529.28	(0
		-do- (second storey)	210	Sqm	37.90	340%	166.76	35019.60	0.00	210.00	0.00	35019.60	(0
25	14.49	Marble stone flooring 20mm to 25mm thick slab including matching grains of marble laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing (Third quality)										0.00	(.0
	(a) iii	-do- (First storey)	273		478.60	90%	909.34	248249.82	0.00	273.00	0.00	248249.82	0.0
	(a)iii+note(i)	-do- (second storey)	273		478.90	90%	909.91	248405.43	0.00	273.00	0.00	248405.43	.0
26	14.62	Kotah stone flooring 34mm to 40mm thick in any pattern as specified over 12 mm thick base of cement coarse sand mortar 1:3 laid and jointed wsith neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing											.0
	+note(i)	-do- (First storey)	350	Sqm	201.95	200%	605.85	212047.50	0.00	350.00	0.00	212047.50	0.0
	+note(i)	-do- (second storey)	350	Sqm	202.25	200%	606.75	212362.50	0.00	350.00	0.00	212362.50	0.0
	+note(i)	-do- (third storey)	10	Sqm	202.55	200%	607.65	6076.50	0.00	10.00	0.00	6076.50	0.0
27	14.66	Kotah stone 20mm thick in skirting fisers of steps, dados pillars and wall facing in any pattern as specified 12mm thick cement coarse sand plaster1:3 laid and jointed with neat cement slurry,mixed with pigment to match the shade of stone including rubbing and polishing including labour for mixing cramps,dowels and pins etc.											0.0
	+note(i)	-do- (First storey)	36	Sqm	237.00	200%	711.00	25596.00	0.00	36.00	0.00	25596.00	0.
	+note(i)	-do- (second storey)	36	Sqm	237.30	200%	711.90	25628.40	0.00	36.00	0.00	25628.40	0.

	e(i)	(third)		Sq	37.60	00%	712.6	92.00	0.00	15.00	0.00	10692.00	0.0
28	15.5	12mm thick cement plaster 1:4											0.0
	+note(i)	-do- (First storey)	1850	Sqm	12.70	340%	55.88	103378.00	2100.00	0.00	250.00	0.00	13970.
	+note(i)	-do- (second storey)	1714	Sqm	12.88	340%	56.67	97135.81	1900.00	0.00	186.00	0.00	10540.
	+note(i)	-do- (third storey)	105		13.06	340%	57.46	6033.72	650.00	0.00	545.00	0.00	31317.
29	15.10	15mm thick cement plaster 1:4 on the rough side of singe or half brick										0.00	0.
	15.10+ note	-do- (First storey)	1850.00	Sqm	15.65	340%	63.86	127391.00	1850.00	0.00	0.00	0.00	0.
	15.10+ note	-do- (second storey)	1650.00	Sqm	15.83	340%	69.65	114925.80	1650.00	0.00	0.00	0.00	0.
	15.10+ note	-do- (third storey)	105.00	Sqm	16.01	340%	70.44	7396.62	800.00	0.00	695.00	0.00	48958.
30	15.18	Rough cast exterior cement plaster on walls with a mixture of sand and gravel or crushed stone graded from 2.36mm to 12mm nomina size dashed over and including fresh plasterwith cement mortar 1:3 (1cement 3 sand) mixed with 10% finely ground hydrated lime by volume of rounded angles not exceeding 80mm in girth.										0.00	0.
	+ note i	-do- (First storey)	1400.00	Sqm	35.40	340%	155.76	218064.00	0.00	1400.00		218064.00	0.
	+ note i	-do- (second storey)	1400.00	Sqm	35.58	340%	156.55	219172.80	0.00	1400.00		219172.80	0.
	+ note i	-do- (third storey)	205.00	Sqm	35.76	340%	157.34	32255.52	0.00	205.00		32255.52	0.
31	15.52	10mm thick cement plaster 1:4										0.00	0.
	15.52+ note 1	-do- (First storey)	1343.00	Sqm	12.65	340%	55.66	74751.38	2000.00	0.00	657.00	0.00	36568.6
	15.52+ note 1	-do- (second storey)	1343.00	Sqm	12.83	340%	56.45	75815.04	2220.00	0.00	877.00	0.00	49508.4
	15.52+ note 1	-do- (third storey)	108.00	Sqm	13.01	340%	57.24	6182.35	200.00	0.00	92.00	0.00	5266.4
32	15.77	20mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg per sqm laid hot and sanded:-										0.00	0.
	(a)	Vertical (do second storey)	150.00	Sqm	30.88	340%	135.87	20380.80	150.00	0.00	0.00	0.00	0.
	(b)	horizontal(do second storey)	120.00		29.13	340%	128.17	15380.64	125.00	0.00	5.00	0.00	64 0.
33	15.30	Extra for lining out inrought=h cast/ pebble/ cement plaster and terrazzo finish surfaces lining.	2800.00	Sqm	3.30	340%	14.52	40656.00	3000.00	0.00	200.00	0.00	290 4.
34	16.1	Preparation of plywood surface for painting including sand papering the surface and applying with approved quality filler consisting of white lead, linseed oil, varnish and chalk mitti including finishing the surface to required finish complete (with first quality paint)	450.00	Sqm.	4.60	125%	10.35	4657.50	590.00	0.00	140.00	0.00	144 3.

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35	[illegible]	[illegible]lying [illegible] p[illegible] or aluminium priming coat on wood work including preparation of surface knotting and stopping etc. (with 1st quality paint)	[illegible]00	S[illegible]	3.7[illegible]	125%	8[illegible]	[illegible]796.8[illegible]	[illegible]0.00	[illegible]	[illegible]40.0[illegible]	[illegible]00	11[illegible]
36	16.3	Applying two coats excluding priming coat with synthetic enamel paint in all shades on new woodwork or metallic or plastered or concrete surfaces to give an even shade (with first quality paint)	450.00	Sqm.	9.40	125%	21.15	9517.50	700.00	0.00	250.00	0.00	5237
37	16.9	Applying priming coat with metal primer on new steel or iron work including preparation of surface with first quality paint)	960.00	Sqm.	3.15	125%	7.09	6804.00	220.00	740.00	0.00	5244.75	0
38	16.18	Painting two coats with ready mixed paint for metallic surfaces in all shades on old steel or iron work.	960.00	Sqm.	7.00	125%	15.75	15120.00	100.00	860.00	0.00	13545.00	0
39	16.26	Painting two coats with ready mixed exterior paint in all shades on newly plastered or concrete surface of wall.	2150.00	Sqm	13.45	125%	30.26	65064.38	0.00	2150.00	0.00	65064.38	0
40	16.48	White wash three coats	2800.00	Sqm	1.25	125%	2.81	7875.00	2800.00	0.00	0.00	0.00	0
41	16.52	Preparation of plastered surfaces for oil bound distemper including sand papering the surface, applying 1 coat of linseed oil and filling with approved quality filler consisting of white led, linseed oil, warnish and chalk mitti including finishing the surface to the required finish complete.	5860.00	Sqm.	11.15	125%	25.09	147012.75	9860.00	0.00	4000.00	0.00	100350
42	16.58	Distempering with washable oil bound distemper (of approved manufacture) two coats over one priming coat on new work.	5860.00	Sqm.	9.10	125%	20.48	119983.50	9860.00	0.00	4000.00	0.00	81900
43	17.82	Supply and fixing hydraulic door closer, I.S.I. mark with necessary screws, etc. complete											0
	C)	I.S.I. designation No. II(size of door 851 mm to 1000mm)	36.00	Each	216.50	250%	757.75	27279.00	36.00	0.00	0.00	0.00	0
44	17.83	Providing and fixing sliding bolt with nuts and screws etc, complete-											0
	C)	Iron										0.00	0
	i)	Size 300mmx16mm	50.00	Each	17.45	250%	61.08	3053.7[illegible]	25.00	25.00	0.00	1526.88	0
	ii)	SiZe 250x16 mm	100.00	Each	16.35	250%	57.23	5722.50	85.00	15.00	0.00	858.38	0

45	1	t of tings, lete for doors and windows such as tower bolts, handels etc. and screws fo these fittings (excluding sliding bolts)											
	a)	For single leaf shutter	280.00	Sqm	6.40	250%	22.40	6272.00	280.00	0.00	0.00	0.00	
	b)	for double leaf shutter	142.00	Sqm	10.15	250%	35.53	5042.55	142.00	0.00	0.00	0.00	
46	17.87	Providing and fixing 0.50 mm thick aluminium sheet including cost of nedcessary screws etccomplete-	50.00	Sqm	90.53	250%	316.93	15846.25	50.00	0.00	0.00	0.00	
47	17.93(a)iii - note(i) of 17.18	Factory manufactured solid flush door shutters with block board core as per I.S typephenol formaldehyde synthetic resin hot pressed, conforming to I.S 2202 partI and II, fixed postionincluding iron hinges, scrrews, chocks/ cleats and stops, etc(excluding the cjost of any fittings other than specified above , but including labour for fixing the same in position):-											
	a) iii	35mm thick	203.00	Sqm	436.15	150%	1090.38	308576.13	195.00	88.00	0.00	95953.00	
48	17.90 (b)	Factory manufactured panelled door or glazed window shutter of commercial hard wood such as hollock, champ, chikrassy and chaplash etc. (non-confireous timber other than teak conforming to I.S. specification no. 1003 kiln seasoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & 100mm vide others rail with panelles of 15mm thick, tongued and grooved of commercial hard wood i./c the cost of iron hinges, screws, chocks/cleats, stops, nails etc. complete fixed in position excluding the cost of any fittings other tham specified above but including the labour for fixing the same in possition										0.00	
	b)	Glazzed shutter (35 thick)	150.00		424.15	250%	1484.53	222678.75	115.00	35.00	0.00	51958.38	

4	.12	ough and steel (using angles, flats, square bars, tees and channels) ladders grills, grating frames, window guard iron doors openable of fixed staircase of parapet or any other type of railing, gates and tree guards etc including cost of screws and welding rods or bolts and nuts complete fixed in position.	.00		1040	325	442	0578.	37.00		0.00	3 .46	
50	18.22	Cold twisted deformed (ribbed/tor steel) bars for RCC works where not including bending, binding and placing in position complete.	2515.00	Qtl.	917.05	350%	4126.73	10378713.38	3860.00	0.00	1345.00	0.00	555044
51	18.30	S/F glass panes including special metal sash putty of approved make										0.00	
	(b)	Glass panes 4mm thick, exceeding 40 sq.dm.area	580.00	Sqm	115.40	325%	490.45	284461.00	130.00	450.00	0.00	220702.50	
52	18.34(a)	Pressed steel sheet frames (chowkhats), consisting of 2mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hinges, conforming to P.W.D. specifications including bolts for fixing stops, lock notch provision for receiving tower bolts and finished with one coat of ready mixed paint red lead non-setting primer of approved quality fixed in position including the cost of cement concrete 1:3:6 for filling in the frame and cement concrete 1:3:6 for lugs complete:-										0.00	
	(a)	Door and window frame of size 89 x 50mm with 40mm wide single rebate	2203.00	Mtr.	71.55	325%	304.09	669904.76	2120.00	83.00	0.00	25239.26	
53	6.2 C(iii)	Earth work in excavation in ordinary soil exclusive of compensation of earth-Lead										0.00	
		Extra for every 7.5 mtrs addiotnal lead beyond 300mtrs byt upto 495 mtrs by animal or by animal-driven-cart.	0.00	100 Cum	7.96	350%	35.82	0.00	3328.56	0.00	3328.56	0.00	119 2

54	10.86+ note (v) b	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work for wall exceeding 20cm thickness (straight and curved)beams,girders,stair, coloums (square or rectangular) battens and lintels etc.excluding steel reinforcement but including centring and shuttering, laid in position complete in all	0.00	Cum	1116.45	340%	4912.38	0.00	35.00	0.00	35.00	0.00	171933
55	13.89	Providing & fixing PVC Rain Water pipe 6 kg pressure of ISI mark in cement mortar during masonary work.										0.00	
	(b)	150 MM dia PVC pipe 6kg. Pressure	0.00	Mtr.	336.65	0%	336.65	0.00	200.00	0.00	200.00	0.00	6733
56	13.90	Providing fixing PVC bend ISI mark.										0.00	
	(b)	150 mm dia PVC bend	0.00	Each	165.40	0%	165.40	0.00	40.00	0.00	40.00	0.00	661
57	16.25	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surfaces.	0.00	Sqm	4.15	125%	9.34	0.00	14200.00	0.00	14200.00	0.00	13259
58	16.79 (b)	Providing two coats of exterior acrylic emulsion paint										0.00	
	(b)	1st quality	0.00	Sqm	48.75	0%	48.75	0.00	3010.00	0.00	3010.00	0.00	14673
59	15.15	20 mm thick cement plaster 1:4 in 2 coats work 1st storey		Sqm	20.15	340%	88.66	0.00	1300.00	0.00	1300.00	0.00	11525
		IInd storey	0.00	Sqm	20.33	340%	89.45	0.00	1300.00	0.00	1300.00	0.00	1628
		IIIrd storey	0.00	Sqm	20.51	340%	90.24	0.00	830.00	0.00	830.00	0.00	7490
60	13.93	Providing & fixing false ceiling with grooves with 12mm to 15mm thick 600mm x 600mm best quality mineral erforated fibre tiles of approved make (Armstrong) fixed on M.S steel runners frames i/c cost of screws angles, cleats, rowel plugs i/c hangers with tapping and painting etc complete in all respect as per approval of Engineer-in-Charge. (Rate including ceiling premium)	0.00	Sqm	800.00	0%	800.00	0.00	2200.00	0.00	2200.00	0.00	176000

61	17.97	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS : 12823 grade I type II in panelling fixed in aluminium doors windows shutters and partition frames with C.P.brass/stainless steel screws etc. complete												
	(a)	Pre-laminated particle board with decorative lamination on one side & balancing lamination on both side.	0.00	Sqm	745.65	0%	745.65	0.00	45.00	0.00	45.00	0.00	33[illegible]5	
62	13.64	Cement concrete 1:2:4 gola 10cmx10cm quadrant along junction of roof with parapet wall finished smooth where specially specified.FR=5.35	0.00	Mtr.	5.35	200%	16.05	0.00	350.00	0.00	350.00	0.00	5[illegible]1	
							Total:	34987453.04				6900820.77	3545023	

Differnence in all items except steel	**-335579[illegible]**
Differnence in steel item	**555044[illegible]**
Add contractor premium @ 24.50% on all items except steel 18.22	-82217
Add contractor premium @ 33.25% on steel item i.e. 18.22	184552
Total Difference including contractor premium	321800
Total Difference in NS items Civil	337062
Total difference in Civil items	6588[illegible]2
Saving in Public Health Schedule	-23581
Saving in Public Health Non Schedule	-335[illegible]5
Already approved agreement amount including civil, PH & El	5263000
Total Amount to be approved	58647[illegible]5
Total Enhancement amount	6017[illegible]5
Total Percentage of Enhancement	1

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

Item No. 14.5 **To consider & approve the item(s) of work for the construction of Extension Block of Guest House Building at NIT, Kurukshetra.**

The B & WC in it's 11th meeting held on 28.07.2009 approved the revised cost estimate of Rs. 181.27 lac for the construction of extension block of Guest House building at NIT, Kurukshetra. As this building will be used by V.V.I.P's during their stay at NIT, Kurukshetra, to have a better look of rooms & to facilitate more comforts to the Guests, it is desired that the false ceiling should be provided in all rooms and dinning hall of this building where as this item of work was not included in the preliminary estimate earlier. Accordingly, a cost estimate amounting to Rs. 5.94 lac has been framed and scrutinized by the construction cell to cover the cost of this additional item. The expenditure to be incurred on this additional item of work is Rs. 5.94 lac. The additional amount of Rs. 5.94 lac will be met out within the already approved amount of Rs. 181.27 lac.

The B & WC may kindly consider and approve this item of work i.e. false ceiling for Rs. 5.94 lac within the already approved amount of Rs. 181.27 lac for this work.

S.P. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)								
	30.3	Providing and fixing in position best Indian make Anglo Indian water closet suit (asapproved by the engineer-in-charge) consisting of:								
	i)	Wash down closet set vitreous china ware (to the approval of the engineer-in-charge) with 'P" or S trap with or without vent as required and suitable joint for closet inlet;								
	ii)	One piece seat and lid in hollow black or white plastic fitted with chromium plated brass hinges and rubber buffers;(to the approval of the engineer-in-charge)								
	iii)	12.5 litres capacity mosquito proof C.I flushing cistern of best Indian make and all other necessary fittings complete as fully described in item no.30.1 above								
	iv)	32mm diameter telescopic 1.25 mm thick galvanized inside and outside steel flush pipe with clips.								
		Complete in all respects including cutting and making good the walls and floors anhd painting of fittings etc.								
		Single colour	20	Each	1474	250%	5159	103180	0	20
	30.13	Extra over item No. 30.3 to 30.6 for providing and fixing best indian make plastic hygenic seat with lid complete instead of hollow black or white plastic seat and lid								
	(iii)	Coloured plastic seat other than black or white(solid)	20		251	250%	878.5	17570	17	3
	30.40	Providing & fixing 25mm thick, marble partitions for different type of urinals.								
	(b)	Vetreous Chinaware partition plate.	2	Each	434.00	250%	1519.00	3038	0	2
	30.41	P/F in position best Indian make lavatory Suites								
		White								
		(iv) Size 550mmx400mm with one no. tap	0	Each	407.00	250%	1424.50	0	19	0
		Single colour								
		(iv) Size 550mmx400mm with one no. tap	20	Each	521.00	250%	1424.50	28490	0	20
5	30.45	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	20	Each	92.00	250%	322.00	6440	19	1
	30.48	P/F in position 32mm diameter G.I.waste pipe embedded in wall	20	Each	98.00	250%	343.00	6860	20	0
	30.50	P/F in position best Indian make C.P. brass bottle traps 32mm diameter	20	Each	92.00	250%	322.00	6440	20	0
6	30.58	Providing and fixing in position best quality stainless steel draining board with iron brackets for building into wall including painting, cutting and making good the walls etc.								
		Size 600 mm x 450 mm	1	Each	1774.00	250%	6209.00	6209	0	1
	30.62	P/F 40mm diameter G.I.waste pipe embedded in wall or upto floor level including cost of union and plumbing joints	18	Each	118.00	250%	413.00	7434	3	15
8	30.66	P/F in position best Indian make showers with 15mm diameter inlet.								
	C)	C.P brass with revolving joint.	20	Each	123.00	350%	553.50	11070	17	3
9	30.67	P/F in position best Indian make paper holder fixed into C.P. including cutting & making good the walls etc.								
	(a)	C.P. brass	20	Each	27.50	250%	96.25	1925	17	3
10	30.68	Providing and fixing in position best Indian make towel rails fixed including cutting and making good the wall etc.								
	(b)	20 mm diameter C.P. brass adjustable								

. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Saving
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)								
		(i) 750 mm long	20	Each	65.00	250%	227.50	4550	19	1
		(ii) 600 mm long	30	Each	57.00	250%	199.50	5985	19	11
11	30.69	P/F in position glass shelf fixed in with rawl plugs with C.P. brass screws complete including cutting & making good the walls etc.								
	(a)	With C.P. brass bracket and guard rail								
		(i) 600mm x 125m	20	Each	72.50	250%	253.75	5075	19	1
	30.70	P/F in position best Indian make soap dish fixed into wall with C.P. brass screws complete in all respects including cutting & making good the walls etc.								
	(a)	C.P. brass								
	(i)	Soap dish large	20	Each	59.00	250%	206.50	4130	20	0
13	30.71	P/F in position best Indian make bevelled edge 5.5mm thick mirror fixed in position by means of 4 nos. C.P. brass screws and washers complete including cutting and making good the walls etc.								0
	(a)	Indian make								
		(ii) 600 mm x 450mm	20	Each	107.00	250%	374.50	7490	20	0
14	30.73	P/F in position best Indian make coat & hat hooks fixed with C.P. brass screws complete including cutting and making good the walls etc.								
	(a)	C.P. brass								
		(ii) Two way	68	Each	43.00	250%	150.50	10234	68	0
	30.74	Providing and fixing in position super quality 65 mm i/d opening CP brass dome type hinged grating weighting about 750 gms. Fixed in cement mortar 1:2 complete in all respects (as required by the Engineer-in-charge).	38	Each	67.50	250%	236.25	8978	38	0
16	30.75	Providing & fixing in position 15mm i/d C.P. brass bib cocks of best quality (as required by the Engineer-in-charge)								
	(a)	Bib cock long body	70	Each	116.00	250%	406.00	28420	60	10
	(c)	Bib cocks	38	Each	100.00	250%	350.00	13300	20	18
	30.76	P/F in position C.P. brass stop cocks (as approved by Engineer-in-charge)								
	(a)	15mm stop cocks								
		(ii) Concealed stop cocks with flange	140	Each	130.00	250%	455.00	63700	52	88
	30.8	Extra over item Nos. 30.1 to 30.4 and 30.6 for providing and fixing 15 litres capacity vitreous China high level cistern complete with internal brass fitting instead of 12.5 litres capacity high level C.I cistern complete(as approved by the engineer-in -charge)								
	(i)	White	0	Each	319.00	250%	1116.50	0	17	0
	(ii)	Single colour	20	Each	458.00	250%	1603.00	32060	0	20
19	30.83	P/F in position best Indian make C.P. brass inlet connection 15mm with 375mm pipe & CP brass nuts.	120	Each	115.00	250%	402.50	48300	100	20
	30.84	P/F in position HCI soil, waste, vent pipes to ISI specification or any other reputed firm including cutting & wastage etc. & cutting holes in walls, roofs or floor etc. and making good the floor & wall but excluding cost of lead jointing								
	(a)	100mm internal diameter	300	Mtr.	97.50	300%	390.00	117000	240	60
	(b)	75mm internal diameter	300	Mtr.	83.00	300%	332.00	99600	215	85
	30.87	Providing lead caulked joints to HCI pipes & specials conforming to ISI specification of ELC or any other reputed firm including cost of lead yarn, fuel & tools etc.								
	(a)	100mm internal diameter (1.13 kg)	195	Each	33.50	225%	108.88	21231	225	0
	(b)	75 mm internal diameter (0.91 kg)	300	Each	27.50	225%	89.38	26813	230	70

Sl. No.	HSR No.	Description	Qty	Unit	Rate	Disc	Total Rate		Executed	
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)								
22	30.88	Providing and fixing in position MS or Heavy flat iron clamps made out of MS flat not less than 5 mm of the approved design for fixing CI Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting								
	(a)	For 100 mm internal diameter pipes	120	Each	12.50	300%	50.00	6000	50	7
	(b)	For 75 mm internal diameter pipes	120	Each	11.00	300%	44.00	5280	50	7
23	30.89	P/F HCI floor trap ISI marked of the self-cleaning design with C.P. brass hinged grating with or without vent arm & including cement concrete 1:2:4 complete in all respects								
	(b)	With 75mm internal diameter outlet	38	Each	105.00	300%	420.00	15960	30	
24	30.90	PROVIDING AND FIXING IN POSITION HCI 50mm INTERNAL DIAMETER OUTLET PLAIN NAHAN TRAP ISI Marked of the self cleaning design with CP BRASS HINGED GRATING WITH FRAME WEIGHING 6.80 KG EACH FIXED complete as fully described in item no. 30.89 above.								
	(b)	75 mm i/d outlet plain Nahani Trap.	38	Each	100.00	300%	400.00	15200	4	3
25	30.91	P/F in position HCI specials for soil waste vent pipes to ISI specification including cutting holes in walls & making good but excluding cost of lead joints								
	(a)	For 100mm internal diameter pipes								
		(i) heal rest bend	20	Each	58.00	300%	232.00	4640	16	
		ii) Double junction with door 100 mm x100x100x100mm.	20	Each	99.00	300%	346.00	6920	0	2
		(iv) single junction with door 100mm x100mm x100mm	18	Each	86.50	300%	346.00	6228	16	
		(vi) Single junction plain 100mmx100mmx100mm	20	Each	76.50	300%	306.00	6120	0	2
		(xiii) Bend with door	10	Each	60.00	300%	240.00	2400	0	1
		(xiv) Bend plain	10	Each	53.00	300%	212.00	2120	0	1
		(xv) Terminal guard	17	Each	39.50	300%	158.00	2686	0	1
		(xvi) Cowls	20	Each	36.50	300%	146.00	2920	16	
		(xxii) Collars	30	Each	27.50	300%	110.00	3300	25	
	(b)	For 75mm internal diameter pipes								
		(i) Heal rest bend	20	Each	39.50	300%	158.00	3160	18	
		(iv) Single junction with door 75mmx75mmx75mm	18	Each	59.00	300%	236.00	4248	31	
		(vi) Single junction plain 75mmx75mmx75mm	19	Each	50.50	300%	306.00	5814	0	1
		(xiii) Bend with door	17	Each	42.00	300%	168.00	2856	0	1
		(xiv) Bend plain	2	Each	39.50	300%	158.00	316	0	
		(xv) Terminal guard	17	Each	27.50	300%	110.00	1870	0	1
		(xvii) Cowls	17	Each	28.00	300%	112.00	1904	18	
		(xviii) Collars	57	Each	22.50	300%	90.00	5130	25	3
26	30.95	Cutting chase in brick wall in cement for embedding G.I. or HCI pipe lines & making good the same								
	(a)	Size 75x75mm	60	Mtr.	6.00	250%	21.00	1260	60	
27	30.101	Painting HCI soil waste and vent pipes and fittings with black bitumastic ordinary paint of approved manufacture two coats on new work.								
		(a) 100 mm internal diameter	300	MTR	1.85	250%	6.48	1943	150	15
		(b) 75 mm internal diameter	300	MTR	1.35	250%	4.73	1418	150	15
28	30.110	P/F in position automatic brass ball valves in tanks								
	(b)	With plastic ball								
		(iii) 25mm diameter	10	Each	65.50	250%	229.25	2293	15	

No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Likely to be Executed	Qty. in Hand
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)								
	30.114	P/F in position Gully traps fixed in cement concrete 1:4:8 with HCI grating 150x150mm CI cover weighing approximately 7.26 kg & frame clear opening 300 x 300mm and chamber including cost of brick work 1:5 cement concrete 1:8:16 and C.C. 1:2:4 in coping								
	(b)	100mm internal diameter HCI gully traps	19	Each	208.00	300%	832.00	15808	17	2
	30.115	Providing and fixing in position best Indian make vitreous china ware channel of size 600 mm x 150 including laying and fixing in cement concrete 1:2:4 complete as required by the Engineer-in-charge								
	(i)	White	6	Each	92.00	250%	322.00	1932	4	2
	28.24	Cutting holes upto 23cm through brick work in cement wall for pipes and making good								
	(a)	11.43cm thickness of walls	40	Each	14.00	250%	49.00	1960	20	20
	(b)	22.86 cm. thickness of walls	60	Each	20.35	250%	71.23	4274	20	40
	28.47	Bailing out water from the trenches for making new connections in fully charged pipelines								
	(a)	Upto 200mm internal diameter	4	Each	67.50	250%	236.25	945	1	3
	29.84	Constructing brick masonry inspection chamber upto 60 mtr.depth in cement mortar 1:5 cement concrete 1:2:4 benching, 12mm thick cement plaster, RCC 1:2:4 slab 100mm thick with with 455x455 mmx455x610mm inside light duty GI inspection chamber cover & frame with 3 coats of black bitumastic paint.								
	(c)	Size 600x900mm inside	20	Each	690.00	375%	3277.50	65550	12	8
34	29.85	Extra for every 0.30 mts. depths of inspection chamber								
	(c)	600mmx900mm	20	Each	139.00	375%	660.25	13205	5	15
35	6.8	Excavation for pipelines running under pressure in trenches and pits in open areas where disposal of surplus earth is done alongwith the alignment and restoration of unmetalled surface to the original condition								0
	(a)	Without timbering and shoring upto 1.5 meters depth	90	100 Cum	1030.00	300%	4120.00	3708	2	88
36	6.10	Excavation of trenches in street lanes or in open area for storm sewer, sewers running by gravity & man holes to full depth and removal of surplus soil upto to a lead of 1Km in ordinary soil								0
	(a)	For depth of excavation not exceeding 3 mts. below ground level	150	100 Cum	1189.00	300%	4756.00	7134	70	80
37	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	20	Cum	403.10	340%	1773.64	35473	2	18
38	10.41	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in foundation and plinth	10	Cum	615.60	340%	2708.64	27086	20	0
	10.59+ note V (b)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in in first storey upto 4 metres above plinth level								0
		-do- (first storey)	3	Cum	621.85	340%	2736.14	8208	0	3
		-do- (second storey)	4	Cum	624.40	340%	2747.36	10989	0	4
40	30.5 (a) (i)	Providing & fixing in position best Indian make European type water closet suite, syphonic type consisting of								

Sr. No.	HSN No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estimated Cost	Qty. Already Executed	[illegible]
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)								
		(i) Vitreous chinaware syphonic suite with 15 litres capacity matching chinaware cistern complete with 'P' or 'S' trap with or without vent								
	(a)	Single trap syphonic W.C. suites (White)	0	Each	1542.00	250%	5397.00	0	17	0

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Rate	Estimated Cost	Qty. Likely to b Executed
		SUB PART-IV: INTERNAL PH SERVICES (NON-SCHEDULE ITEMS)							
1		Providing and laying cement concrete1:2:4 75mm in bed and around C.I soil waste pipe 100mm and 75mm i/d under floor including centering and shutterinhg where required.							
	(a)	100mm dia	35	Mtr.	300.00		300.00	10500	110.0
	(b)	75 mm dia	60	Mtr.	240.00		240.00	14400	65.0
2	NSR	P/F in position C.P. jet connection of EWC complete including C.P. plate for jet & PVC connection for jet point complete in all respects.	20	Each	600.00		600.00	12000	17.0
3	NSR (based on 30.53)	Providing and fixing in position best quality stainless steel sinks with complete fittings as fully described in item No.30.51 above.							
		(a) 600 mm x 450 mm x 200 mm	2	Each	9000.00		9000.00	18000	3.0
4	NSR	Providing, laying, jointing glazed stoneware pipes grade A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement, 1 fine sand) including testing of joints etc. complete.							
		150mm i/d	100	Mtr.	150.00		150.00	15000	145.0
	(b)	200mm i/d	50	Mtr.	230.00		230.00	11500	2.0
5	NS	Providing and fixing of G.M Peat valves heavy patterns with hand wheels ISI marked to GI pipe lines.							
	(a)	25mm i/d	20	Each	400.00		400.00	8000	49.0
	(b)	40mmi/d	10	Each	850.00		850.00	8500	3.0
	(c)	80mmi/d	1	Each	1600.00		1600.00	1600	0.0
6	NS	Providing, testing and fixing G.I. pipe 'B' class medium duty including cost of specials such as Tee, elbow, bends etc. and threading inside the building							
		15mm i/d	400	Mtr.	120.00		120.00	48000	300.0
		20mm i/d	250	Mtr.	144.00		144.00	36000	400.0
		25mm i/d	200	Mtr.	190.00		190.00	38000	55.0
		40mm i/d	100	Mtr.	250.00		250.00	25000	25.0
		50mm i/d	100	Mtr.	300.00		300.00	30000	100.0
		80mm i/d	50	Mtr.	500.00		500.00	25000	2.0
7	NS	Extra for providing and fixing union coupling to G.I. pipe lines including cost of union complete							
		15mm i/d	40	each	50.00		50.00	2000	2.0
		20mm i/d	25	each	78.00		78.00	1950	55.0
		25mm i/d	20	each	100.00		100.00	2000	2.0
		40mm I/d	10	each	180.00		180.00	1800	2.0
		50mm I/d	10	each	200.00		200.00	2000	5.0
		80mm I/d	5	each	288.00		288.00	1440	0.0
	NS	Providing and stringing S & S centrifugally cast (spun) iron pipes (Class LA) complete in trenches to the approval of Engineer-in-charge.							
		80mm i/d	50	Mtr.	925.00		925.00	46250	1.0

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Rate	Estimated Cost	Qty. Likely to be Executed
9	NS	Supplying and fixing ISI marked sluice valve double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge. 80 mm	2	Each	3000.00		3000.00	6000	0.00
10	NS	Const. of sluice valve haudi 1m x 1m x 1m with brick work 1:5 cement sand mortar finished with 12.5mm cement plaster 1:4 including RCC 1:2:4 slab with reinforcement, surface box complete in all respect to the approval of Engineer-in-charge.	2	Each	3000.00		3000.00	6000	0.00
11	NS	Providing and fixing in position H.D.P.E. water tanks complete with inlet, outlet, scour and overflow flanges including masonry based underneath as approved by the Engineer-in-charge of different capacity tanks complete in all respect.							
		Capacity upto 2000 litres	20000	Ltrs.	7.00		7.00	140000	20000.00
12	NS	Making sewer connection with the existing sewer line	4	Each	1000.00		1000.00	4000	2.00
	1)	**All china ware should be of Cera /Hindustan/ CERA/HINDWARE/ PERRYWARE Make Ist quality**							
	2)	**All C.P. fittings/fixture should be of SEIKO/Parko/ make.**							
	3)	**All fitting should be Unik & G.I. pipe should be TATA / Jindal Hisar.**							

Sr. No	HSR No.	Description	Qty.	Unit	Rate	C.P.	Rate	Estimated Cost	Rate	Amount	Qty. Likely to be Executed
		SUB PART-I: INTERNAL CIVIL WORKS (NON SCHEDULE ITEMS)									
		The rate quoted by the contractor shall be for all heights and levels as per drawings and for all scaffolding work and other connecting operations for below mentioned items.									
1.NS		Providing and fixing in position stainless steel Hand Rail system including mid rails welded built-up section using pipes and connecting plates of stainless steel grade 304 polished to satin finish, of required diameter and thickness including cutting, welding, grinding, bending to required profile and shape, hoisting, buffing, polishing, cutting chases/embedding in RCC/masonry, fixing with stainless steel (grade 304) screws, nuts, bolts rossette covers and washers or stainless steel fasteners to make it rigidly fixed and stable against impact force with necessary bends and terminations and making good the walls / plaster etc. all complete as per drawings and direction of Engineer-in-Charge.									
		The item includes epoxy grouts welding etc. which shall not be measured for purpose of payment. Weight of stainless steel pipes balusters and mid rails, stainless steel plates rossette cover, nut and bolts etc as actually provided shall only be mesured in Kg. for payment	500	kg	715.5		715.5	357750.00	615	307500.00	400.00
2. NS		Providing and fixing Aluminum Anolized sliding bolts (ISI marked) necessary stainless steel and make with nuts and screws etc. complete :									
		250x16 mm	80	No.	150.00		150.00	12000.00	125.00	10000.00	20.00
3. NS		Providing and fixing Aluminum Anolizedl tower bolts of (ISI marked) stainless steel make with necessary screws etc. complete :									
		250x10 mm	100	No.	90.00		90.00	9000.00	80.00	8000.00	20.00
		150x10 mm	100	No.	80.00		80.00	8000.00	70.00	7000.00	20.00
4. NS		Providing and fixing Aluminum Anolized handles (ISI mark) with necessary screws etc complete.									
		125 mm	200	No	50.00		50.00	10000.00	45.00	9000.00	100.00
5. NS		Providing and fixing Aluminum hanging floor door stopper of approval make and quality(ACME/BOLT/HARDWYN) with necessary screws etc complete.									
		Twin rubber stopper.	60	Nos.	40.00		40.00	2400.00	35.00	2100.00	10.00
6. NS		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) :									
a		For fixed portion.									

Sl. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Rate	Estimated Cost	Rate	Cost	To be executed
		SUB PART-I: INTERNAL CIVIL WORKS (NON SCHEDULE ITEMS)									
i		Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	200	kg	290.45		290.45	58090.00	290	58000.00	150.00
b		For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).									
i		Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	200	kg	310.45		310.45	62090.00	300	60000.00	150.00
7. NS		Providing and fixing glazing in aluminium 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 aluminium snap heading shall be paid in basic item) :									
		With float glass panes of 5.50 mm thickness	50	sqm	673.55		673.55	33677.50	600.00	30000.00	50.00
8. NS		Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.									
		With stainless steel cover plate	2	nos	1733.50	each	1733.50	3467.00	1700.00	3400.00	2.00
9. NS		Providing and fixing mirror polish, machine cut granite flooring at stair case, external concourse entrance steps and internal concourse etc., (sample of granite shall be approved by Engineer incharge) over 20 mm thick base of cement mortar 1:4(1 cement : 4 coarse sand) laid and joints treated with white cement, mixed with matching pigment, epoxy touch ups including rubbing, moulding etc. complete. as per direction of Engineer-in-charge.									
		20 mm thick Granite of any colour and shade as approved by the engineer-in-charge.									
		Any size	100	sqm	3663.00	sqm	3663.00	366300.00	3400.00	340000.00	615.00
10. NS		Providing and fixing 18 mm thick mirror polished, machine cut granite stone in risers of steps. Skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement :3 coarse sand) and joint treated with white cement slurry mixed with pigment to match the shade of the slab including rubbing, curring etc complete at all levels to the satisfaction of Engineer-in-charge.									
		Granite of any colour and shade as approved by the engineer-in-charge.									
	NS	Any size	15	sqm	2889	sqm	2889	43335.00	3000	45000.00	25.00
11. NS		Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.(Make as per engineer in-charge.)									
	NS	Size of Tile 60x60 cm	915	sqm	1000.00	sqm	1000.00	915000.00	825.00	754875.00	680.00

Sr. No	HSR No.	Description	Qty.	Unit	Rate	C.P.	Rate	Estimated Cost	Rate	Amount	Qty. Likely to be Executed
		SUB PART-I: INTERNAL CIVIL WORKS (NON SCHEDULE ITEMS)									
12. NS		Providing and fixing 18 mm thick mirror polished, machine cut for Kitchen plateforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 with joints treated with									
		Granite stone	35	sqm	3000.00		3000.00	105000.00	3000.00	105000.00	35.00
13. NS		Extra for providing edge moulding to granite stone counters including machine polishing to edge to give high gloss finish etc.. Complete in all respects	40	Mtr.	150.00		150.00	6000.00	150.00	6000.00	250.00
14. NS		Providing and fixing first class plain coloured glazed tiles with border and highliter (of orient/Johnson make) of size 300x450 mm with minimum thickness 5mm in skirting and dado on 12mm thick cement plaster 1:3 (1 cement:3 coarse sand) the back of the tiles to be buttered with gre(as per engineer in-charge)	430	Sqm.	650.00		650.00	279500.00	600.00	258000.00	480.00
15. NS		Providing and laying in floor plain coloured matt finish ceramic tiles of orient/Johnson make, size 400mm x 400mm (thickness as per manufacture) without warpage, laid on 20mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including grouting the join as per engineer in-charge	85	Sqm	800		800.00	68000.00	700.00	59500.00	0.00
16. NS		Providing and fixing 150mm wide sheet covering over expansion joints with rawl plugs and iron screws as per design to match the colour/shade of wall treatment with 3.15mm thick aluminium fluted strips.	25	Metre	300.00		300.00	7500.00	350.00	8750.00	25.00
17. NS		Providing, laying & fixing including necessary screws 350mm wide 3.15 thick aluminium sheet bend to shape as per drawing/ instructions to act as metal cradle on expansion joint including embedding in concrete complete in all repects upto the entire satisfaction of the Engineer-in-charge.	25	Metre	650.00		650.00	16250.00	500.00	12500.00	25.00
18. NS		Providing Dr. Fixit pidiseal PS 41G (Gun grade), 42P (Pouring grade) or equivalent for horizontal and vertical expansion joint complete in all respects as per manufacturer detail to the satisfaction of EIC on all the floors.	25	Sqm.	200.00		200.00	5000.00	260.00	6500.00	10.00
19. NS		Providing and fixing 40mm CP fancing rod for palmets i/c bracket complete with all necessary fittings.as per approved engineer in-charge.	400	mtr.	100.00		100.00	40000.00	90.00	36000.00	150.00
20. NS		Providing P.O.P under ceiling i/c cost of P.O.P. scaffolding & labour as satisfication of Engineer-in-charge.									
a)		Cornish 15cmx15cm	1000	Mtr.	25		25	25000.00	25	25000.00	1000.00
b)		Moulding 25x25cm as per design under ceiling.	800	Mtr.	15		15	12000.00	16	12800.00	800.00
c)		Flower around fan works under ceiling as per approved design.(satisfication of engineer-in-charge)	60	Mtr.	150		150	9000.00	150	9000.00	150.00

Sr. No.	HSR No.	Description	Qty.	Unit	Rate	C.P.	Total Rate	Estiamted Cost	Qty. Likely to Be Executed
PART-I: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)									
	6 6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry in 15 cm layers with compaction, including disposal of all surplus soil as directed within a lead of 30 mtrs	460	100 Cum	1106 10	350%	4986 45	229377 67	460 00
	6 27	Clearing grass and removal of the rubbish upto distance of 50m outside the periphery of the area cleared.	360	100 sqm	21 45	300%	85 80	308 88	0 00
		Dismantling brick work, tile masonry or tile lining and tile terracing							
	8 5 (b)	b) In cement	100	Cum	35.60	450%	195 80	19580.00	20 00
		Dismantling Concrete.							
	8 6(e)	(e) Reinforced cement concrete with cleaning and straightening and cutting of bars if required.	100	Cum	108 05	450%	594 28	59427.50	5 00
5		Dismantling roofing							
	8 8(g)	(G) Demolishing mud phaska in tile terracing	80	Cum	12.45	450%	68.48	5478.00	70.00
6		Scraping							
	8 32(a)	(a) White wash and colour wash	1000	Sqm	0.45	450%	2 48	2475.00	1000 00
	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth (upto 1 5m depth)							
		For Foundation	31	Cum	403 10	340%	1773.64	54982 84	41.00
	10 56	Cement concrete 1:4 8 with stone aggregate 20 mm nominal size in first storey upto 4 metres above plinth level	35	Cum	426 25	340%	1875 50	65642 50	120.00
9	10 59	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size in first storey upto 4 metres above plinth level	10	Cum	621 85	340%	2736 14	27361 40	30.00
10	10 95 + 10 95 (a)	Cement concrete 1 1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestal and approach slabs of bridges etc. excluding steel reinforcement but including centering and shuttering laid in position complete in all respects (for works upto 1 5m below grounds level)	110	Cum	774 00	340%	3405 60	374616.00	118 00
11	10 86+ 10 95 (a)	Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, girders, stairs, columns (square or rectangular) battens and lintels etc excluding steel reinforcement but including centering and shuttering laid in position, complete in all respects							
a	10 86+ 10 95 (a)	-do- (first storey)	80	Cum	1188 75	340%	5230.50	418440 00	78.00
	10 86+ 10 95 (a)+ note(v)(b)	-do- (second storey)	145	Cum	1196 05	340%	5262 62	763079 90	83.00
	10 86+ 10 95 (a)+ note(v)(b)	-do- (third storey)	5	Cum	1203 35	340%	5294 74	26473.70	5 00
12	10 82 + 10 95 (a)	Cement concrete 1 1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in slab with inclination not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering laid in position complete in all respects							
	10 82 + 10 95 (a)+note(v)(b)	-do- (first storey)	50	Cum	1084 80	340%	4775 12	238656 00	40 00
	10 82 + 10 95 (a)+note(v)(b)	-do- (second storey)	105	Cum	1092 10	340%	4805 24	504550.20	95.00

	18.22	Cold twisted deformed (ribbed/tor steel) bars for R.C.C. works where not included in the complete rate of R C C including bending, binding and placing in position complete	680	Qtl	917 05	350%	4126 73	2806173 00	542 00
	10 132	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavements, roads, taxi tracks and runways,laid to required slope and camber, including consolidation,finishing,and tamping complete	25	Cum	642 4	340%	2826 56	70664 00	1 00
15	10 114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm laid hot and sanded	30	Sqm	35.05	340%	154 22	4626 60	30 00
16	11 2	First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.	53	Cum	393.45	400%	1967 25	104264.25	20 00
	11 7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meter above plinth level.							
		-do- (first storey)	70	Cum	414.45	400%	2072.25	145057.50	60.00
	11.7+11 41 (i)	-do- (second storey)	210	Cum	422.70	400%	2113.50	443835.00	150.00
c	11.7+11 41 (i)	-do- (third storey)	17	Cum	430.95	400%	1939.28	17065.66	25.00
	11 9	First class brickwork laid in cement sand mortar 1:4 in first storey upto 4 meter above plinth level							
a		-do- (first storey)	20	cum	414.45	400%	2072.25	41445.00	0.00
	11.9+11 41 (i)+11*42	-do- (second storey)	50	Cum	466.25	400%	2331.25	116562.50	20.00
c	11.9+11 41 (i)+11 42	-do- (third storey)	7	Cum	474.50	400%	1939.28	17065.66	0 00
19	11 48 (a)	11 43 cm thick brick wall laid in cement sand mortar 1:4 in superstructure in first storey							
a		-do- (first storey)	80	Sqm	55 10	400%	275 50	22040 00	80 00
b	11 48 (a) + note (iv)(a)	-do- (second storey)	530	Sqm	56 05	400%	280 25	148532 50	450 00
	13 13+note	Terracing consisting of tiles 22 86x11 43x3 81cm laid over 87.50mm mud filling on a layer of 25mm mud plaster and another layer of mud mortar for laying the tiles							
		IInd storey	800	Sqm	53 90	400%	269 50	215600 00	702.00
21	13 43	Providing and embedding 100mm dia H.C.I rain water without ears I.S.I mark pipe in cement mortar during masonry work.							
		100mm diameter pipe	50	Mtr	93 35	350%	420 08	21003.75	0 00
22	13 46 (a)	Extra over rate of item No.13 43 and 13 45 (a) in case lead joints are used instead of cement joints							
		100 mm diameter pipe	125	Each	24.30	350%	109 35	13668.75	0.00
23	13 [illegible]	Providing & fixing CI plain bends in position with gutter etc.							
	(a)	For 100mm diameter pipe	6	Each	57.45	350%	258.53	1551.15	0.00
	13 50	Top Khurra 0.6 m x 0.6 m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50mm thick cement concrete 1:8 16	20	Each	12.30	200%	36 90	738 00	20 00
	14 1-10 26 Based derived rate	Sand filling under floor i/c laying consolidation, compaction & watering etc	150	Cum	69 30	340%	304 92	45738.00	400 00
5	13 64	Cement concrete 1 2.4 gola 10cmx10cm quadrant along junction of roof with parapet wall finished smooth where specially specified	170	Mtr	5 35	200%	16 05	2728 50	250 00
7		Providing and lying cinder concrete in cement 1 15, 1cement and 15 cinder, on terraced roofs and 1st storey,laid to slope,including consolidating the same							
	13 66	-do- (second storey)	70	Cum	216 65	200%	649 95	45496 50	0 00
	14 1	Base course of floors consisting of 100mm thick cement concrete 1:8 16 and 100mm sand or stone filling	300	Sqm	36.95	340%	162 58	48774.00	560 00

	14.4	-do- (second storey)	600	Sqm	15.65	340%	[illegible]	[illegible]	0.00
b		-do- (third storey)	10	Sqm	15.95	340%	70.18	701.80	0.00
		conglomerate floor 25mm thick cement concrete topping 1:2:4							
		-do- (first storey)	10	Sqm	22.40	340%	98.56	985.60	30.00
	14.8	-do- (second storey)	15	Sqm	22.70	340%	99.88	1498.20	0.00
	14.3	Floating coat of 1:50mm thick neat cement laid in one operation to the topping	15	Sqm	3.70	340%	16.28	244.20	30.00
	15.5	12mm thick cement plaster 1:4 on wall							
a	15.5+note 1	-do- (first storey)	300	Sqm	12.70	340%	55.88	16764.00	300.00
	15.5+note 1	-do- (second storey)	1150	Sqm	12.88	340%	56.67	65172.80	1150.00
	15.5+note 1	-do- (third storey)	40	Sqm	13.06	340%	57.46	2298.56	40.00
		15mm thick cement plaster 1:4 on the rough side of singe or half brick							
	15.10 +note (1)	-do- (first storey)	610	Sqm	15.65	340%	68.86	42004.60	810.00
	15.10 +note (1)	-do- (second storey)	1210	Sqm	15.83	340%	69.65	84278.92	1210.00
c	15.10 +note (1)	-do- (third storey)	80	Sqm	16.01	340%	70.44	5635.52	390.00
	15.18	Rough cast exterior cement plaster on walls with a mixture of sand and gravel or crushed stonr graded from 2.36mm to 12mm nominal size dashed over and including fresh plaster in 2 coat.							
	15.18 +note (1)	-do- (first storey)	860	Sqm	35.40	340%	155.76	133953.60	0.00
b	15.18 +note (1)	-do- (second storey)	850	Sqm	35.58	340%	156.55	133069.20	0.00
	15.18 +note (1)	-do- (third storey)	120	Sqm	35.76	340%	157.34	18881.23	0.00
35	15.52	10 mm thick cement plaster 1:4 on underside of ceiling							
	15.52 + Note (1)	-do- (first storey)	350	Sqm	12.65	340%	55.66	19481.00	40.00
b	15.52 + Note (1)	-do- (second storey)	600	Sqm	12.83	340%	56.45	33871.20	40.00
	15.52 + Note (1)	-do- (third storey)	40	Sqm	13.01	340%	57.24	2289.76	40.00
		20mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg. per laid hot and sanded.-							
	15.77 (a)	Vertical							
		- do - (second storey)	150	Sqm	30.88	340%	135.87	20380.80	60.00
ii	15.77 (b)	Horizontal							
		do (second storey)	180	Sqm	29.13	340%	128.17	23070.96	80.00
37	17.38(a)	Teak wood wire gauze door and window shutters without spring housed in chowkets including chocks/cleats, iron hinges and screws etc							
a		30mm thick	200	Sqm	376.45	250%	1317.58	263515.00	0.00
38	17.73	Providing and fixing six-levers brass 10cm mortice latch and lock, and a pair of lever handles with necessary screws, etc. complete (Indian make of reputed firm, such as Godrej or equivalent)	21	each	134.45	250%	369.74	7761.54	0.00
	17.82	Supplying and fixing hydraulic door closer I.S.I mark with necessary screws, etc Complete -							
	(c)	I.S.I designation No III(size of door 851 mm to 1000 mm	37	Each	216.50	250%	595.38	22029.06	37.00
	17.87	Providing and fixing 50mm thick aluminium sheet i/c cost of necessary srews, etc. complete	30	Sqm	90.55	250%	316.93	9507.75	5.00
	17.93& 17.93(C)i&iv	Factory manufacturedsolid flush door shutters With block board core as per I.S No. 1659-1669 bonded with wate proof typephenol formaldehyde synthetic resin hotpressed conforming to I.S 2202 part I and II fixed in position including iron hinges, screws, chocks/ cleats and stops etc (excluding the cost of any fitting other than specified above , but including labour for fixing the same position-							

		[illegible] and edges lipped with commercial hard wood with laminated core							
i		25mm thick	70	Sqm	569 15	150%	1422 88	99601 25	0 0
iv		40 mm thick	140	Sqm	642 15	150%	1605 38	224752 50	0 0
42	17 94(a)	Factory manufactured panelled door shuters of teak wood kiln-seasoned as per I S specification no 401 with 100mm wide vertical styles 150mm wide lock rail,200 mm wide bottom rail and 100mm wide other rails with panels of 12mm thick veneered, particle board or plywood of BWR grade hot pressed including cost of iron hinges							
a		Panel of decorative plywood both side teak faced.							
i		35mm thick	150	Sqm	831 15	250%	2909 03	436353 75	0 0
43	18 12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders grills, grating frames, window guard iron doors openable of fixed staircase of parapet or any other type of railing, gates and tree guards etc including cost of screws and welding rods or bolts and nuts complete fixed in position	36	Qtl	1040 35	325%	4421 49	159173 55	12 0
44	18 16	Providing and fixing G.I. sheet 0.80 mm thick garage doors with 40mmx 40mm x 6mm angle iron frame with diagonal braces. 3mm thick gusset plates at the junctions, hooks at the top and 25 mm dia. pulleys & T-iron 50 mm x 50mm x 6mm guides at bottom including locking arrangements with handles and pintles, etc complete	2	Sqm	424 00	325%	1802 00	3604.00	0.0
45	18 20	Providing and fixing in position collapsible steel shutters with vertical channels 20 mm x 10 mm x 2mm and braced with flat iron diagonal 20 mm x 5 mm size, with top and bottom rails of T-iron 40 mm x 40 mm x 6 mm with 38 mm dia steel pulleys, complete with bolts, nuts locking arrangements, stopers, handles, etc , complete	2	Sqm	305 45	325%	1298.16	2596.32	0.0
46	18 30	S/F glass panes including special metal sash putty of approved make							
	(b)	Glass panes 4mm thick exceeding 40 sq dm area	150	Sqm	115 40	[illegible]	490 45	[illegible]567 50	90 00
47		Pressed steel sheet frames(Chowkats) consisting of 2mm thick steel sheet of the specified section, including iron lugs(hold fasts) iron hinges conforming to PWD specifications, including bolts for fixing stops, locknotch, provision for receiving tower bolts, and finished with one coat of ready-mixed paint red lead non-stetting primner of approved quality, fixed in position including the frame and cement concrete 1:3:6 for lugs complete -							
(a)	18 34(a)	Door and window frame of size 89 mm x 50mm with 40mm wide single rebate.	210	Mtr	71.55	325%	304.09	63858.38	160 00
	18 34(b)	Door and window frame of size 127 mm x 50mm with 40 mmwide single rebate.	600	Mtr.	76 80	325%	326 40	195840 00	640 00
48	18 35	Providing and fixing M S angle and T-iron frame for door, window and ventilator including iron hold fast, butt hinges of I.S I. mark fixed in position with machine screws and duly welded including all other suitable locking arrangements provided and welded with the frame and making holes and fixing glazing clips in the frame, filing the welds and finished with a coat of red lead non setting primer complete in all respects	0.2	Quintal	1069 70	325%	4546 23	909 25	0.20
49	18 2	Applying pink primer or aluminium priming coat on wood work including preparation of surface knotting and stopping etc	400	Sqm	3 75	125%	8 44	3375 00	400 00

		[illegible] concrete surfaces to give an even shade (with first quality paint)							
	16 9	Applying priming coat with metal primer on new steel or iron work including preparation of surface with first quality paint)	150	Sqm	2 95	12[illegible]	6 64	995 63	150 00
	16 18	painting two coats e/c primming coat with ready mixed paint for metallic surfaces in all shades on new steel or iron work to give an even shade (with first quality paint)	150	Sqm	7 00	125%	15 75	2362 50	150 00
	16 52	preparation of plaster surface for oil bound distemper including sand papering the surface, applying 1 coat of linseed oil and filling with approved quality filler consisting of white led, linseed oil, warnish and chalk mitti including finishing the surface to the required finish complete	4400	Sqm	11 15	125%	25 09	110385 00	4400 00
54	16 27	Painting two coats with ready- mixed emulsion paint in all shades for interior use on bricks plaster, cement fibre-board etc.	590	Sqm	10 90	125%	24 53	14469 75	4400 00
55	16 26	Painting two coats with ready- mixed exterior paint in all shades on newly plastered or concrete surface of walls.	1230	Sqm	13 45	125%	30 26	37222 88	0 00
	16.44	Spirit polishing two coats including 2 coats of wood filler on new work.	600	Sqm	11.15	125%	25.09	15052 50	20.00
57	24.35	Providing and fixing premoulded bituminous joint filler, for expansion joints, including the cost of sealing compound and primer coat.							
	24 35(a)	(ii) 12mm wide	1000	Per mtr per cm depth	2 45	325%	10.41	10412.50	10000 00
58	10 89+ 10.95(a) note v(b)	Cement concrete 1:2.4 with stone aggregate 20mm nominal size for reinforced concrete work in fascias parapets and other thin vertical sections, not covered by item nos.10.82, 10.86 to 10.88 not exceeding 10cm thickness excluding steel reinfocement but including centring and shuttering laid in position, complete in all respects.							
		Second Storey	0	Cum	1716 25	340%	7551.50	0 00	3.00
		Third storey	0	Cum	1723 55	340%	7583 62	0.00	3 00
	13 91	Providing and fixing False Ceiling with 12mm thick Gympsum Board fixed on MS steel runners frame i/c cost of screws angles, cleats, rawel plungs with taping,filling with Gypsum compound and applying priming coat etc complete in all respects	0	Sqm	600 00	0%	600 00	0 00	820 00
60	13 90	Providing fixing PVC bend ISI mark							
	(a)	100 mm dia PVC bend FR=97.40	0	Each	97 40	0%	97 40	0.00	20.00
	16 25	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surfaces FR=4.15	0	Sqm	4.15	125%	9 34	0 00	8630 00
	13.89	Providing fixing PVC rain water pipe 6kg pressure of ISI mark in cement mortar during masonary work.							
	(a)	100 mm dia PVC pipe 6kg pressure FR=182	0	Mtr	182 00	0%	182 00	0 00	90 00
63	15.15	20 mm thick cement plaster 1:4 in 2 coats work 1st storey							
		1st Storey FR=20.15	0	Sqm	20 15	340%	88 66	0.00	360 00
		IInd storey FR=20.33	0	Sqm	20 33	340%	89 45	0 00	360 00
		IIIrd storey FR=51.00	0	Sqm	20 51	340%	90 24	0 00	220 00
	16 79 (b)	Providing two coats of exterior acrylic emulsion paint	0	Sqm	48 75	0%	48 75	0 00	940 00
	(b)	1st quality FR=48 75							

	note(i)	hillock, champ, chikrassy and chaplash etc. (non-confireous timber other than teak conforming to I.S. specification no. 1003 kiln seasoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & 100mm vide others rail with panelles of 15mm thick, tongued and grooved of commercial hard wood I./c the cost of iron hinges, screws, chocks/cleats, stops, nails etc. complete fixed in position (excluding the cost of any fittings other tham specified above but including the labour for fixing the same in position)							
	(a)	35mm thick FR=424.15	0	Sqm.	424.15	250%	1484.53	0.00	50.00
66	HSR 17.92 (1) (-) note of 17.18	Factory-manufactured wire gauze door and window shutters of commercial hard wood such as hillock, champ, chikrassy and chaplash etc.As per HSR (i) 30 mm thick , Rs. @ 310.40 per sqm(322.25-11.85)=310.40							
		(ii) 35mm thick,(347.55-11.85)= Rs. @ 335.70 per sqm	0	Sqm.	335.70	250%	1174.95	0.00	125.00
67	17.72	Cost of aluminium fitungs,complete for doors & windows,such as tower bolts, hadles etc.and screws for fittings (excluding sliding bolts)							
	(a)	For single leaf shutter FR=17.80	0	Sqm.	17.80	250%	62.30	0.00	310.00
	(b)	For double leaf shutter FR=27.45	0	Sqm.	27.45	250%	96.08	0.00	75.00
68	17.79 (b)	Providing & fixing helical door spring 150mm (superior quality), including necessary screw, complete							
		(b)Iron (@ Rs. 23.35 each)	0	Sqm.	23.85	250%	83.48	0.00	41.00
69	17.83 [b]	Providing and fixing sliding bolt with nuts and screws, etc. complete							
	(b)	aluminium							
	(i)	Size 300 x 16mm (@Rs. 44.15 each)	0	Each	44.15	250%	154.53	0.00	15.00
	(ii)	Size 250 x 16mm (@Rs. 40.30 each)	0	Each	40.30	250%	141.05	0.00	80.00
70	17.78 [b]	Providing & fixing 150mm hasps and staples with necessary screws, etc., complete							
		(b)aluminium (@ Rs. 10.35 each)	0	Each	10.35	250%	36.23	0.00	40.00
71	17.93(a)iii - note(i) of 17.18	Factory manufactured solid flush door shutters with block board core as per I.S typephenol formaldehyde synthetic resin hot pressed, conforming to I.S 2202 partI and II, fixed postionincluding iron hinges, screws, chocks/ cleats and stops, etc(excluding the cost of any fittings other than specified above , but including labour for fixing the same in position):-							
	a) I	25 mm thick	0	Sqm	387.15	150%	967.88	0.00	85.00
	a) iii	35mm thick	0	Sqm	436.15	150%	1090.38	0.00	125.00
72	17.61+ note ii of this item	Providing and fixing 12 mm thick 150 mm wide pelmet of flat pressed single or three layers particle board (medium density) B.W.R. grade, with 25 mm dia teak wood curtain rod and brackets including fixing with 25 mmx3 mm MS flat 10cm long and plugs (teak) etc. complete	0	Mtr.	74.80	250%	261.80	0.00	125.00
73	17.48+ note ii of this item	Providing and fixing flat pressed single or 3 layers particle board of BWR grade (medium density) in plain linging butt jointed including wooden plugs (Teak), placed at 45 cm to 60 cm centres, complete with necessary nails (fram work shall be payable extra)							
	(b)	19 mm thick	0	Sqm	222.65	250%	779.28	0.00	295.00
74	17.88	Providing and fixing plastic laminated sheets thickness, nto less than 1.5mm (conforming jto I.S. specification), including cost of approved adhesive complete							
	(a)	natural finish	0	Sqm	310.40	250%	1086.40	0.00	680.00
75	14.87	Providing copper pin 7.5 cm long of 6mm diameter including the cost of mortar	0	each	3.00	340%	13.20	0.00	292.00
76	13.55	Spplying and fixing in position GI pipe class B spouts in chajjas and contilevers							
	(d)	40 mm internal dia GI pipe	0	Mtr.	59.00	200%	177.00	0.00	5.00

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

Item No. 14.6 To Consider and Approve the Rough cost estimate for Installation 11kv Sub-Station for Additional Girls Hostel (300 capacity) at NIT-Kurukshetra.

The Institute has recently constructed the building of Additional Girls Hostel (300 capacity) at NIT-Kurukshetra. A 11 KV Sub-Station is to be installed for the supply of electricity to this building. A committee was constituted by the Director to decide the sub-station and other related issues of Additional Girls Hostel (300 capacity) at NIT-Kurukshetra. The Committee has prepared a rough cost estimate for this Sub-Station amounting to Rs.10.21 Lac to accommodate sub-station equipments and main LT panel. The estimate has been scrutinized by the Electrical Section of the Institute.

The B & WC is requested to consider & approve the rough cost estimate amounting to Rs.10.21 Lac for the Internal Electrification of 11 KV Sub-Station for this newly constructed Additional Girls Hostel (300 capacity) at NIT-Kurukshetra.

PART 1 - SCHEDULED (As Per Latest Premium 01-02-2009)

Item No.		Description of Item	Unit	Qty.	HSR Rate	CP %age	HSR+SP Rate	Amount
1	31.12 (D)	Supply and erection of sheet steel enclosures distribution boards suitable for MCBs etc on wall/existing board pedestal with rag bolts including bonding to earth -						
		(v) Distribution board 6 way (SPN)	1	Each	279.00	60%	446.40	446.40
2	31.13	Supply and erection of M.S. angle iron frame duly welded for Housing M.S. sheet & main switches etc. on it, fixed on wall by means of suitable size of rag bolts with cement concrete, duly painted with three coats of approved paint including one coat of red oxide						
		(ii) Size 40 mm x 40 mm x 6 mm	5	mtr	46.50	175%	127.88	639.38
3	31.17	Supply and erection of miniature circuit breaker/ isolator 240/415 V in the existing distribution board including making necessary connection:-						
		(a) Miniature Circuit Breakers of 9 K.A. breaking capacity						
		(ii) 6 amp to 32 amp (SP) Havell's/ Standard	6	Each	95.00	30%	123.50	741.00
		(iii) 40 amp to 63 amp. (SPN) Havell's/ Standard	1	Each	240.00	30%	312.00	312.00
4	31.18	Supply and erection of Fittings and Accessories						
		(xi) Bakelite angle/ straight button holder large size	2	Each	6.20	200%	18.60	37.20
		(xxiv) Erection only of 1 x 40 Watts or 2 x 40 Watts, 1220 mm long/1 x 20 watts or 2 x 20 Watts, 610 mm long fluorescent tube fitting directly on wall including necessary connection with 0. 75 sq mm (24/0-20 mm) PVC copper flexible cable for connection the tube with the adjacent light point	2	Each	10.90	200%	32.70	65.40
		(xxxii) Making suitable size of wall niche including cement plastering of inside of niche for metal clad switches, branch distribution boards, bus bar chambers and energy meters	2	Cum	66.00	200%	198.00	396.00
5	31.20	Erection and carriage of fans						
		(i) Erection of ceiling fan complete with necessary earthing of fan and regulator including carriage from local railway station/Goods transport/PWD store to the site of work	1	Each	13.00	130%	29.90	29.90
		(iii)Erection of exhaust fan complete with necessary earthing of fan and regulator including carriage from local railway station /Goods transport /PWD store to the site of work	1	Each	25.00	130%	57.50	57.50
		(v) Making suitable hole in the wall up to 450 mm sweep exhaust fan including finishing the same and fixing of wire mesh duly fixed with Deodar wood frame of section40 x 25 mm thick	1	Each	53.00	130%	121.90	121.90
		(vi) Pdg. And fixing required size of deodar wood frame of section 50 mm x 32 mm for fixing exhaust fan up to 450 mm sweep	1	Each	55.00	130%	126.50	126.50
6	31.21	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required:-						
		(xxi) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed	30	mtr	16.30	175%	44.83	1344.75
		(xxx) Supply and erection of PVC pipe of 6 Kg. pressure, laid 1 meter below ground level complete, including digging refilling of the trench with jointing etc.						
		(c) PVC pipe 65 MM dia	6	mtr	31.00	175%	85.25	511.50
7	31.22	Earthing						
		(iii) Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc.(but without charcoal or coke and salt) complete as required	7	Each	453.00	180%	1268.40	8878.80
		(v) Extra for charcoal or coke and salt for G.I. plate or copper plate earth electrode	7	Each	186.00	180%	520.80	3645.60

PART 1 - SCHEDULED (As Per Latest Premium 01-02-2009)

Item No.		Description of Item	Unit	Qty.	HSR Rate	CP %age	HSR+SP Rate	Amount
		viii) Supply and laying 25mmx5mm GI strip at 0.5m below ground as strip earth electrode including soldering etc. as required.	30	mtr	16.20	180%	45.36	1360.80
8	31.25	Supply and erection of under ground cable 1 meter below ground level covered with sand and bricks including necessary connections, digging and refilling of trenches:- Cable Make-ICL/CCI/ECKO/HAVELLS/ POLYCAB						
		(xxix) 3.5x95 Sq mm (arm)	200	mtr	135.50	140%	325.20	65040.00
		(xxxii) 3.5x185 Sq mm (arm)	200	Meter	228.00	140%	547.20	109440.00
9	31.26	Supply and erection of under ground cable loose in existing pipe or trenches complete with necessary connections.Cable Make-ICL/CCI/ECKO/HAVELLS/ POLYCAB						
		(xxix) 3.5x95 Sq mm (arm)	100	Meter	121.10	140%	290.64	29064.00
		(xxxii) 3.5x185 Sq mm (arm)	100	Meter	215.40	140%	516.96	51696.00
10	31.28	Supply and erection of suitable compression type brass Cable glands for underground Cable -						
		(iv) 70 Sq mm to 95 Sqmm Cable 3 to 3.5 Core	8	Each	22.50	140%	54.00	432.00
		(v) 120 Sq mm to 185 Sqmm Cable 3 to 3.5 Core	8	Each	28.60	140%	68.64	549.12
11	31.35	Miscellaneous						
		(iii)Supply and erection of caution notice plate in three languages	4	Job	2.00	130%	4.60	18.40
		(iv)Supply and erection of shock restoration chart in glass frame	1	Job	37.50	130%	86.25	86.25
		(vii) Supply and erection of 75 mm x 75 mm x 60 mm deep M.S. box for telephone and inter-communication system including 2 pin 5 amp socket including cost of bakelite sheet	1	Each	18.00	130%	41.40	41.40
		(ix)Supply and erection of aluminum lugs heavy duty including crimping etc up to the entire satisfaction of the Engineer-in-charge of the work -						
		(i) 95 Sq mm	20	Each	5.60	130%	12.88	257.60
		(l) 185 Sq mm	30	Each	11.20	130%	25.76	772.80
		(xi) Supply & erection of cable route marker made of 50 cm long 10 mm dia M.S Rod welded/revitted at the top with 10 cm dia 5 mm thick G.I. plate inscribed with 'cable' word on it, having a cross arm 30 cm long of the same dia welded at the bottom, in existing trench 45 cm below ground level	10	Each	17.00	130%	39.10	391.00
12	31.36	Wiring in 1.5 sq mm PVC insulated Copper conductor cable in 1.6 mm thick conduit pipe						
		(i) Fan point						
		(c) Long Point	1	Each	733.00	10%	806.30	806.30
		(ii) Light Point						
		(b) Medium Point	2	Each	433.00	10%	476.30	952.60
		(c) Long Point	3	Each	639.00	10%	702.90	2108.70
		(vii) 3 pin 5 amp. Plug point including earthing the 3rd pin etc.						
		(a) Short Point	2	Each	283.00	10%	311.30	622.60
		(b) Medium Point	2	Each	466.00	10%	512.60	1025.20
		(viii) 3 pin 15 amp Plug point including earthing the 3rd pin etc. with 4 sq mm size						
		(c) Long point	2	Each	970.00	10%	1067.00	2134.00
13	31.40	Supply and erection of PVC unsheathed copper conductor cable single core 1100 volts grade in pipe of suitable size excluding cost and erection of pipe						
		(i) Size 1.5 sq mm (1/1.40 mm)	20	mtr	10.20	10%	11.22	224.40
		(iii) Size 4.0 Sq mm (1/2.24 mm)	20	mtr	24.50	10%	26.95	539.00
		Total:						**284916.00**

ESTIMATE OF INTERNAL ELECTRIFICATION OF 11KV SUB-STATION BUILDING
FOR ADDITIONAL GIRLS HOSTEL (300 CAPACITY) AT NIT KURUKSHETRA
PART 2 - NON-SCHEDULE

Item No.		Description of Item	Unit	Qty.	Rate	Amount
		TRANSFORMER				
		Supply erection testing and commissioning of suitable rating 11/0.433KV distribution transformer indoor type oil immersed, natural cooled having following specifications confirming to IS 2026 latest.				
		Rate Supply frequency -50Hz per second				
		No. of phases - 3				
		No. of winding - 2				
		Winding connection - Primary Delta, Secondary star with fully insulated neutral brought out to secondary terminals.				
		Material of Winding - Copper wound				
		Voltage taps - OFF load taps on primary for ± 7.50% in steps of 2.5%				
		Primary side connections- Box suitable for XLPE 11KV cable.				
		Vector group DYn 11 group.				
		Secondary side connections - Box suitable for 1 No. three phase (3.5C) LT cable.				
		Under carriage - Suitable under carriage with rollers with edges designed so as to permit sliding without damaging the floor and 2 Nos. lifting lugs.				
		Marshalling box - To facilitate connections of all protection devices like oil temp. indicator etc.				
		Fitting & Accessories - As per IS specifications, such as silica jel breather, conservator cable end box for HT & LT sides, 2 Nos. earthing terminals explosion vent drain valve, with plug including first filling of oil Radiator thermometer Pockets, oil temperature indicator with A/T contacts etc. The transformer is to be erected on existing platform and making all incoming & outgoing connections. The job includes cost of transformer & painting of all MS parts & as per UHBVN terms including first filling of Transformer & waranty-02 years. Make-Kirloskar/NGEF/ Bharat Bijlee/GEC/Crompton Greaves				
		315 KVA IndoorTransformer	Each	1	400,000.00	400,000.00
2		Supply and erection fo 11KV CT,PT, metering panel consisting of trivector meter CT 15/5 or 20/5 having accuracy class 0.5 and burden 05VA meter secure premier 5A HT as approved by UHBVN Ltd., PT with voltage ratio 11KV/110V, 3Phase having burden 10VA per phase for 3phase 4 wire system 0.5 accuracy class and conforming to relevant ISS and as per UHBVN specifications and requirements complete enclosed in 14/16G CRCA sheet enclosure including making all the necessary connections to the satisfaction of Engineer-in-charge Testing & approval of C.T/P.T./Meter from UHBVN Ltd is included in this scope of work without any further financial benefit. C.T.,P.T. & meter other detailed specifications as per UHBVN rules & regulations	Each set	1	60,000.00	60,000.00

ESTIMATE OF INTERNAL ELECTRIFICATION OF 11KV SUB-STATION BUILDING FOR ADDITIONAL GIRLS HOSTEL (300 CAPACITY) AT NIT KURUKSHETRA

PART 2 - NON-SCHEDULE

Item No.		Description of Item	Unit	Qty.	Rate	Amount
		Providing & fixing MV danger notice plat 142x192mm made out of MS sheet 2mm thick with inscribtion in single red colour on front side as required & approved by UHBVN	Each	6	100.00	600.00
		Supply, installation, testing and commissioning of outdoor two pole 11KV HT structure as per drawing and specifications of 9m Height complete with following equipment inter connections and all hardware, consumables, welding rods etc	Each	1	25,000.00	25,000.00
	a.	400A, 11KV, 3 Phase GO switch with GI operating rod and handle with padlocking arrangement = 1 No.				
	b.	11KV grade, IGE make, station class lightening arrestor = 1set of 3 Nos.				
	c.	11KV, dropout fuse mounting complete with 50A DO fuses, 100A fuse holders etc.=1set of 3 Nos.				
	d.	Insulated Operating rod for DO fuse = 1 No.				
	e.	Two pole structure fabricated from using PCC pole 9m long as per IS specification and UHBVN requirements to accommodate the equipments mentioned above with two coat of red oxide primer and two coats of aluminium paint complete in all respect. The work has to be executed as per drawing and specifications. This shall include interconnection with electricity board 2 pole structure for supply of power= 1 set of 2 poles.				
		Supply, erection of GI pipe A class ISI marked 3m long to be laid in ground in vertical formation and upper portion to be fixed to the PCC pole with atleast 2 Nos. MS clamps of size 50mmx5mm flat duly painted				
	a.	4" (100mm dia)	Each	6	1,850.00	11,100.00
		SAFETY EQUIPMENTS				
	a.	Supply & laying of 12mm thick and 1 mtr wide rubbermat for panel board	R mtr	6	900.00	5,400.00
	b.	Supply, filling and fixing of following type of fire extinguishers in electrical room.				
	i)	CO_2 type fire extinguishers 5kg	No.	4	3,300.00	13,200.00
	ii)	Dry powder type 5kg	No.	4	3,400.00	13,600.00
	iii)	Sand bucket stand with 3 Nos MS Buckets Stand made of MS Angle 40x40x5mm medium grade	Set	4	850.00	3,400.00
	A.	Supply & laying of HT cable 11KV XLPE 1m below ground level covered with sand and second class bricks / in existing trench as per site requirement complete with cost of sand brick etc. required as per satisfaction engineer-in-charge (Havell's / Polycab / Incab make or as approved by Engineer-in-charge).				
		b) 70sqmm 3C cable	mtr	50	650.00	32,500.00
	B.	Supply and termination of HT cable 11KV XLPE jointing kit with cost of end joint heatshrink type with all accessories required (Raychem / Denson / Mseal make or as approved by Engineer-in-charge)				
		a) Outdoor type for 70sqmm 3C cable	No.	2	5,000.00	10,000.00
		c) Indoor type for 70sqmm 3C cable	No.	3	5,000.00	15,000.00

Item No.		Description of Item	Unit	Qty.	Rate	Amount
		Providing and laying in position hume pipes NP-2 confirming to IS of following sizes in road crossings, with upper level 0.75m below road level, paved areas etc. including collars, joints filled with cement mortar 1:4 (1 cement : 4 coarse sand) finished neat and provided 75mm thick cement concrete 1:3:6 (1 cement coarse sand : 6 crushed stone) aggregate 20mm and compacted and finished smooth complete.				
	a.	300mm dia pipe	RM	20	250.00	5,000.00
		DISTRIBUTION BOARDS				
9	NS	Supply of erection of metal clad switch with tag bolts on wall or existing angle board/pedestal including bonding to earth & necessary connections. Triple pole with neutral 400A,415V 50HZ, 3Ph. HRC fuses 400A in metal clad chamber of L&T/English Electric/ Siemien make				
			No.	1	10000.00	10,000.00
	NS	Supply of following luminaries comprising of basic channel, holder, Instant start, flicker free electronic operation. Easy to fit snap on adjustable installer, compatible with energy saving tube light as per specification, including connecting wires, clamps screws fixing arrangement etc.				
		T5,28 W Philips TCH 128/2005/865 light fitting including 28 W, t5 tube fixture	2	Each	600.00	1200.00
11		Supplying ceiling fan 1400 mm sweep, double ball bearing with mechanical regulator including all accessories, wiring down rod of standard length etc. complete as required.	1	Each	1200.00	1200.00
	NS (a)	Supplying exhaust fan 450 mm sweep 900 rpm heavy duty including louvers/ shutters all accessories wiring etc complete as required.	1	Each	3835.00	3835.00
	NS	**Main Panel**				
		supply, Installation, Testings, Commissioning, handling etc. of main panel fabricated with 2.0mm thick (14 gauge) CRCA sheet, Powder coated, earth grid at bottom with terminals, floor mounted, top & bottom cable entry plate of cubical panel having cable allay, busbar allay IP52 protection. Volt meter with Voltage selector switch, ammeter with Ammeter selector switch with C.T's, the panel single line diagram & general arangements must be approved before fabrcation & having following incomings/outgoings:				
	1	**Incomers**				
		(i) 630A, 4Pole, 35KA MCCB with rotary handle, overload & short cut release-01 No.				
		(ii) 400 A, 4 Pole, 35 KA, MCCB with rotary handle overload & short cut releasle -01 No.				
		(iii) 400A, 4 Pole, 415V change over switch				
	2	**Outgoings**				
		(i) 200A, 4 Pole, 25KV AMCCB - 03 No's				

ESTIMATE OF INTERNAL ELECTRIFICATION OF 11KV SUB-STATION BUILDING
FOR ADDITIONAL GIRLS HOSTEL (300 CAPACITY) AT NIT KURUKSHETRA
PART 2 - NON-SCHEDULE

Item No.		Description of Item	Unit	Qty.	Rate	Amount
		(ii) 125A Pole, 25KA MCCB- 03 No's Makes of MCCB & Changeover- L&T/ Standard/ Havells's, ABB	1	Each	125000.00	125000.00
		Total of non schedule items				736035.00
		Total of schedule items				284916.00
		Total				**1020951.00**
					Say Rs.	**1021000.00**

Note:-

The contractor will be responsible for getting inspected/passed the electrical sub-station from the Chief Electrical Inspector Haryana Chandigarh and he will also make necessary payments of fees for this purpose to that office. The NIT Kurukshetra will, however, render necessary assistance to the contractor in this regard. No, extra payment will be made for this inspection/passing.

----Sd------
DEAN (E, EM & C)

-----Sd------
PROF. I/C (EM)

-- -Sd------
A.E.E. (E)

-----Sd------
DEAN (P & D)

-----Sd------
DEAN (R & C)

Item No. 14.7 To Consider and Approve the Rough cost estimate of Civil works for Construction of room (Size-22'x16'with RCC Roof Slab) to accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT- Kurukshetra.

The Institute has recently constructed the building of Additional Girls Hostel (300 capacity) at NIT-Kurukshetra. A 11 KV Sub-Station is to be installed for the supply of electricity to this building. A committee was constituted by the Director to decide the sub-station and other related issues of Additional Girls Hostel (300 capacity) at NIT-Kurukshetra. The Committee has decided to construct a room of Size 22'x16' to accommodate sub-station equipments and main LT panel. Accordingly a rough cost estimate has been prepared amounting to Rs. 5.35 Lac to cover the construction cost of this room. The estimate has been scrutinized by the Construction Cell of the Institute.

The B & WC is requested to consider & approve the Rough cost estimate of Civil works for Construction of room (Size-22'x16'with RCC Roof Slab) for Rs. 5.35 Lac for above cited work.

accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT- Kurukshetra.

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

Sr. No.	HSR No.	Description	Qty.	Unit	Rate (in Rs.)	C.P.	Total Rate (Rs.)	Amount (in Rs.)
		SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)						
1	6.6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs. depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry in 15 cm layers with compaction, including disposal of all surplus soil as directed within a lead of 30 mtrs	30	100 Cum	1108.10	350%	4986.45	1495.94
2	10.39	Cement concrete 1:4:8 with stone aggregatret 40mm nominal size in foundation and plinth	11.00	Cum	403.10	340%	1773.64	19510.04
3	10.82+10.95(a)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inclinaition not exceeding 25 degree with horizontal, ex-cluding steel reinforcement, but including centring and shuttering laid in position complete in all respect.	8.50	Cum	1084.80	340%	4773.12	40571.52
4	10.86+10.95(a)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work for wall exceeding 20cm thickness (straight and curved)beams,girders,stair, coloums (square or rectangular) battens and lintels etc.excluding steel reinforcement but including centring and shuttering, laid in position complete in all respects.	3.25	Cum	1188.75	340%	5230.50	16999.13
5	10.46	Cement concrete 1:8:16 with stone aggregate 40mm nominal size	28.01	Cum	324.90	340%	1429.56	40041.98
6	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm. laid hot and sanded.	8.37	Sqm	35.05	340%	154.22	1290.82
7	10.132	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavement, roads, taxi-tracks and run ways, laid to required slope and camber, i/c consolidation, finishing and tamping complete.	15.64	Cum	642.40	340%	2826.56	44207.40
8	11.2	First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.	25.50	Cum	393.45	400%	1967.25	50164.88
9	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meter above plinth level.	33.50	Cum	414.45	400%	2072.25	69420.38
10	13.13	Terracing consisting of dtiles 22.86x11.43x3.81cm laid over 87.50 mm lud filling on a layer 25mm mudplasterand another layer of mud mortar for laying the tiles, including two coats of bitumen laid hot at 1.65 Kg per sqm on top of RCC slab including grouting with cement sand mortar 1:3 and top surface to be left clean etc.	44.37	sqm	52.95	400%	264.75	11746.96
11	13.43	Providing and dembedding d100mm dia H.C.I rain water without ears I.S.I mark pipe in cement mortar during masonry work.	8.00	Each	93.35	350%	420.08	3360.60
12	13.49	Providing and fixing C.I plain bends in position with gutter etc.						
	a)	For 100mm dia	4.00	Each	57.45	350%	258.53	1034.10
13	13.50	Top Khurra 0.6x0.6m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50 mm thick cement concrete 1:8:16.	4.00	Each	12.3	200%	36.90	147.60

14	15.01	Cement concrete 1:2:4 gole 10x10cm quadrant along jundtion of roof with parapet wall finished smooth, wherespécially specified.	38.50	Each	5.35	200%	16.05	617.93
15	14.1+10.26 Based derived rate	Sand filling under floor i/c laying consolidation, compaction & watering etc.	27.10	Cum	69.30	340%	304.92	8263.33
16	14.1	Base course of floor consisting of 100mm thick cement concrete 1:8:16 and 100mm sand or stone filling	90.10	Sqm.	36.95	340%	162.58	14648.46
17	14.3	Floating coat of 1.50mm thick neat cement laid in one operation to the topping	90.10	Sqm	3.70	340%	16.28	1466.83
18	14.10	Conglomerate floor 50mm thick cement concrete topping 1:2:4	90.10	Sqm	37.60	340%	165.44	14906.14
19	15.7	12mm thick cement plaster 1:6 on wall	192.94	Sqm	10.65	340%	46.86	9041.17
20	15.50	10mm thick cement plaster 1:4	80.81	Sqm	10.20	340%	44.88	3626.75
21	15.12	15mm thick cement plaster 1:6 on the rough side of singe or half brick	221.10	Sqm	13.10	340%	57.64	12744.20
22	16.1	Preparation of plywood surface for painting including sand papering the surface and applying with approved quality filler consisting of white lead, linseed oil, varnish and chalk mitti including finishing the surface to required finish complete (with first quality paint)	52.67	Sqm.	4.60	125%	10.35	545.13
23	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface knotting and stopping etc. (with 1st quality paint)	52.67	Sqm.	3.75	125%	8.44	444.40
24	16.3	Applying two coats excluding priming coat with synthetic enamel paint in all shades on new woodwork or metallic or plastered or concrete surfaces to give an even shade (with first quality paint)	108.89	Sqm.	9.40	125%	21.15	2303.02
25	16.9	Applying priming coat with metal primer on new steel or iron work including preparation of surface with first quality paint)	56.32	Sqm.	3.15	125%	7.09	399.17
26	16.25	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surface	291.10	Sqm	4.15	125%	9.34	2718.15
27	16.52	Preparation of plastered surfaces for oil bound distemper including sand papering the surface, applying 1 coat of linseed oil and filling with approved quality filler consisting of white lead, linseed oil, warnish and chalk mitti including finishing the surface to the required finish complete	291.10	Sqm.	11.15	125%	25.09	7302.97
28	16.58	Distempering with washable oil bound distemper (of approved manufacture) two coats over one priming coat on new work.	291.10	Sqm.	9.10	125%	20.48	5960.27
29	16.79	Providing two coats of exterior acrylic emulsion paint						
	(b)	1st quality FR=48.75	221.60	Sqm	48.75	0%	48.75	10803.00
30	17.90 (a)-note-1 of 17.18	Factory manufactured panelled door or glazed window shutter of commercial hard wood such as hollock, champ, chikrassy and chaplash etc. (non-confireous timber other than teak conforming to I.S. specification no. 1003 kiln seasoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & 100mm vide others rail with panelles of 15mm thick, tongued and grooved of commercial hard wood i./c the cost of iron hinges, screws, chocks/cleats, stops, nails etc. complete fixed in position excluding the cost of any fittings other tham specified above but including the labour for fixing the same in possition						
	a)	For Glazed windows (30mm thick)	8.00	Sqm	398.15	250%	1393.53	11148.20

	note-1 of 17.18	shutter of Wire Gauge Commercial hard wood such as hollock, champ, chikrassy and chaplash (non-confireous timber other than teak conforming to I.S. specification no. 1003 kiln seasoned) with 100mm vide vertical styles, 150mm vide lock rail, 200mm vide bottom rail & wire gauze of 140G or 120G designation i./c the cost of iron hinges, screws, chocks/cleats, stops, nails etc. complete fixed in position excluding the cost of any fittings other tham specified above but including the labour for fixing the same in possition						
	(i)	30mm thick (Window shutters)	6.05	Sqm	310.40	250%	1086.40	6572.72
32	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders grills, grating frames, window guard iron doors openable of fixed staircase of parapet or any other type of railing, gates and tree guards etc. including cost of screws and welding rods or bolts and nuts complete fixed in position	2.00	Qtl.	1040.35	325%	4421.49	8842.98
33	18.22	Cold twisted deformed (ribbed/tor steel) bars for RCC works where not including bending, binding and placing in position complete.	12.00	Qtl.	917.05	350%	4126.73	49520.70
34	18.30	S/F glass panes including special metal sash putty of approved make						
	(b)	Glass panes 3mm thick, exceeding 40 sq.dm.area	6.40	Sqm	97.50	325%	414.38	2652.00
35	18.34	Pressed steel sheet frames (chowkhats), consisting of 2mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hinges, conforming to P.W.D. specifications including bolts for fixing stops, lock notch provision for receiving tower bolts and finished with one coat of ready mixed paint red lead non-setting primer of approved quality fixed in position including the cost of cement concrete 1:3:6 for filling in the frame and cement concrete 1:3:6 for lugs complete:-						
	(c)	Size 127mm x 50mm x 40mm wide dobule rebate	37.19	Mtr.	76.80	325%	326.40	12138.82
36	18.18 (b)	Supplying and fixing rolling shutters of approved make M.S. Laths interlocked together trough their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets side guides 27.5cm long wire spring guide no.2 and arrangement for inside and outside locking with push and pull operation complete including top cover 0.80mm thick (payment is to be made for the exact size of opening where rolling shutter is to be fixed);						
		With 80mm x 1.25mm M.S. Laths	9.01	Sqm	401.75	325%	1707.44	15384.01
		Total:						**509464.30**
		Add 5 % Contigency & misc. charges						**25473.22**
		Grand Total						**534937.52**
								Say Rs. 5.35 Lac

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