NAME OF WORK- CIVIL AND PLUMBING WORKS FOR THE CONSTRUCTION OF COMPLEX FOR CONFERENCE & LECTURE HALLS AT IITM, PUNE.

NAME OF CLIENT- INDIAN INSTITUTE OF TROPICAL METEOROLOGY, DR. HOMI BHABHA ROAD, PASHAN, PUNE

NAME OF ARCHITECT- M/s ARCHIVISTA ENGINEERING PROJECTS PVT. LTD, PUNE.

NAME OF PROJECT MANAGEMENT CONSULTANT- M/S ARCHIVISTA ENGINEERING PROJECTS PVT. LTD, PUNE.

MEENUTES OF PRE BID MEETING HELD AT INDIAN INSTITUTE OF TROPICALMETEOROLOGY, PUNE ON 21/06/2011 AT 11.00AM

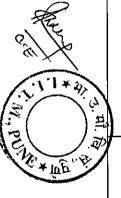
Stained concrete	Tender Document	Final Finish of floor for Conference Hall	9
Make of Items is mentioned in the Revised BOQ, & contractor shall submit their quotes as per revised BOQ.	Tender BOQ	8 Clarification on make in BOQ Items	00
No Change in completition period , it will remain same as per tender document.	Tender Document	7 Completition period	7
Institute will provide space for labour hutment.	Tender Document	6 Contractor required space for labour hutment.	6
No direct elecrtical supply from institute, contractor has to take separate permission for construction work from MSEB pune.	Tender Document	Electrical power supply is requested from the Institute.	5
No basic rates, as no price escallation.	Tender Document	Contractor required basic rate of cement   Tender Document & steel	4
No Change in the liquidated damage , it will remain same as per tender document.	Tender Document	3 Liquidated damage requested to restrict 5%	ယ
Any Nationalised bank format is accepted.	Tender Document	2 Approved format of BG and EMD is required	2
No Change in the EMD, security deposit and retention money , it will remain same as per tender document. (Security Deposit can be accepted in the from Bank Guarantee or DD)	Tender Document	The EMD, security deposit and retention money.	
PRE BID MEETING DECISION	REFERNCE TO BID DOCUMENT	ITEM DESCRIPTION	SR.NO.
-			

\* 47.

N. P. NE \* WE

	18 Site Barrication	17 Bonus	16 Neight work are allwoed	15 Advance 10% of the contract value as "interest free Mobilization"	14 Escalation on material price	13 Can Bank Guaranty used other than Nationalized Bank	12 Can crushed sand be used in the Cement Morter for masonary work	11 Concrete fly ash can be used in concrete	10 Safety officer qualification and certificate Tender Document is required
Tender Document	Additional cost in Tender D	-	I	Tender Document	Tender BOQ	Tender Document	nent Tender Document	rete Tender Document	:ate  Tender Document
Instead of 1st July 2011, can accepted effective from 1st April	Additional cost in Tender DdSection VI, Clause no. 21.11, The contractor shall construct  Barrication to the site of required height with out any extra cost.	Minimum 0.2% per week and maximum 1.5%.	Yes.	No Mobilization Advance.	No price escalation	Yes, nationlized or scheduled bank are accepeted	Yes, but should not be used in any palstering work	Yes, provided concrete mix design is got approved by PMC/Architect/Client	Yes, It is as per Tender document.





## ANNEXURE – I MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas
(hereinafter called the "tenderer")
has submitted their offer dated
for the supply of
(hereinafter called the "tender")
against the purchaser's tender enquiry No
KNOW ALL MEN by these presents that WE of
Having our registered office at
are bound unto (hereinafter
called the "Purchaser")
In the sum of
For which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents, Sealed with the Common Seal of the said Bank this
<ul> <li>THE CONDITIONS OF THIS OBLIGATION ARE:</li> <li>1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.</li> <li>2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-</li> <li>a) If the tenderer fails to furnish the Performance Security for the due performance of the Contract</li> <li>b) Fails or refuses to accept / execute the Contract</li> </ul>
We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.
This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.
(Signature of the authorized officer of the Bank)
Name & designation of the Officer

Seal, Name & Address of the Bank and address of the Branch

## Bill of Quantities for proposed project of conference hall at IITM, Pune

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
A	EXCAVATION AND BACK FILLING				
	EXCAVATION AND BACK FILLING				
1	Excavation in soil,soft & hard murum				
	Excavation for footing, machine foundation, plinth beams, wall footing, gutters, tanks in soil, soft, hard murum, asphalt road & existing murum filling including removing the excavated soil upto a distance of 1500 m beyond battery limit area and staking and / or spreading as directed, shoring,				
	strutting, dewatering wherever required and preparing the bed as directed including back filling in layers etc. complete				
	A) 0.00 - 1.50 m Depth	1601	CUM		
	B) 1.50 – 3.00 m Depth	421	CUM		
	C) 3.00 - 4.50 m Depth	63	CUM		
2	Excavation in soft rock				
	Excavation in soft rock, laterite, old cement concrete & lime masonry etc. for footing, machine foundation, plinth beams, wall footing, gutters, tanks including removing the excavated soil upto a distance of 1500 m beyond battery limit area and stacking and / or spreading as directed, shoring, strutting, dewatering wherever required and preparing the bed as directed including back filling in layers etc. complete  A) 3.00 – 4.50 m Depth  B) 4.50 - 6.00 m Depth	420 19	CUM CUM		
3	Excavation in hard rock				
	Excavation for column foundation, machine foundation, plinth beams, wall footing, gutters, tanks in hard rock by pneumatic/hydraulic machinery,(without blasting) including removing the excavated material any where in the company premises, up to lead of 1500m & spreading as directed, dewatering by pump, preparing the bed for the foundation & necessary back filling with available earth, watering, ramming Including shoring, strutting etc complete as directed				
	A) 4.50 - 6.00 m Depth	16	СИМ		
	B) above 6.00 m Depth	16	CUM		

vista En	gineering Project.Pvt.Ltd.	Conterenc	e and Lec	ture Halls a	t IITM,Pashan
S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
4	Filling in plinth with available material	1080	CUM		
	Filling in plinth and floors with approved material brought				
	from surplus excavated soil including re-excavation of stack				
	wherever required, including filling in layers of 20-30 cm.,				
	watering, compaction levelling etc. complete. The proctor				
	density of such compacted fill shall be 95% of standard				
	proctor				
5	Filling in plinth with contractors murum	201	CUM		
	Same as above, but filling with contractor's locally available				
	filling material with all leads and lifts brought from outside (				
	material to be approved by engineer in charge ) including all				
	royalties etc. complete.				
	Continue account to the	2007	CI II		
6	Carting away surplus excavated earth	2085	CUM		
	Conveying of surplus excavated earth to outside areas with all				
	royalties and the disposal by mechanical transport etc				
	complete ( Rate including all leads and lifts beyond municipal				
	corporation boundary limit )				
7	Hard core 150 mm thk	197	SQM.		
	Providing & laying hard core of hand crushed metal 60 mm in				
	two layers of 100 mm each consolidated to 75 mm making				
	total thickness of 150 mm including watering ,ramming with				
	heavy rollers, levelling the surface with murum /gret spreading				
	etc .complete.(The rate shall be for compacted thickness.)				
	ete complete.(The rate shall be for compacted thickness.)				
8	Anti-termite treatment	1314	SQM.		
-	Anti-termite treatment	1314	JQIVI.		
	Providing and injecting chemical emulsion for anti- termite				
	treatment and creating a chemical barrier under & around				
	the column pits, walls, foundations, trenches, basement				
	excavation, top surface of murum filling in plinth and rubble				
	soling, junction of wall and floor, along the external perimeter				
	of the building, at expansion joint, surrounding of pipes,				
	conduits etc. complete with chlorophriphos 20% E.C.				
	emulsified concentrates as per latest IS code complete from				
	approved agency.( Plinth area of the building at ground floor is				
	to be considered)				
	Sub Total				
·	1				

T\_403\_IITM\_AB\_00 111 Civil BOQ

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN'
В	MASS EXCAVATION AND BACK FILLING				
9	Mass Excavation up to hard rock	4322	CUM		
	Mass Excavation for the plot levelling in required level up to hard rock (in soil, soft & hard murum & existing murum filling) including removing the excavated soil upto a distance of 1500 m beyond battery limit area and stacking and /or spreading as directed, shoring, strutting, dewatering wherever required & preparing the bed as directed, including backfilling in layers, etc. complete				
10	Mass Filling in plot with approved material brought from surplus excavated murum including re-excavation of murum wherever required, including filling in layers of 20-30 cm., watering, compaction levelling etc. complete. The proctor density of such compacted fill shall be 95% of standard proctor.	1025	сим		
	all royalties etc. complete.				
11	Mass Filling in plot with approved material brought from outside(contractor's murum) wherever required, including filling in layers of 20-30 cm., watering, compaction levelling etc. complete. The proctor density of such compacted fill shall be 95% of standard proctor.	3297	сим		
	all royalties etc. complete.				
	di l'oyalites etc. complete.				
12	Conveying of surplus excavated earth to outside areas with all royalties and the				
9 N h h fi o s re in  10  11  12  C re d d C re d d C re d d C re in  P tr d c c re in  14  P 7 in	disposal by mechanical transport etc complete				
	( Rate including all leads and lifts beyond municipal corporation boundary limit )	4322	CUM		
	Sub Total				
С	CONCRETE AND R.C.C. ITEMS -		<u> </u>		
13	P.C.C. 1:3:6	161	CUM		
	Providing and laying in situ Plain Cement Concrete 1:3:6 of trap metal for foundation, floor bedding etc. including dewatering, formwork, compacting and curing & placing etc. complete at all depths.				
1.4	D C C 1/4/9	20	CLINA		
14	P.C.C. 1:4:8  Providing and laying in situ Plain Cement Concrete 1:4:8 ( M 7.5 Grade)of trapmetal for foundation, floor bedding etc. including dewatering, formwork, compacting and curing & placing etc. complete at all depths.	20	CUM		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
15	Cement concrete M25 grade				
	Providing and casting in situ cement concrete of M 25grade concrete of trap metal as per detailed designs including				
	dewatering, centering formwork with shuttering ply & steel				
	plates, ompacting with vibrators, placing & fixing inserts (viz.				
	plates, pipes for cutouts, anchors), formation of cutouts,				
	chases etc. as per detail drawing and curing complete. RCC				
	structures shall be Fair Finish.(Rate at all heights & levels and				
	excluding tor / mild steel Reinforcement)				
	A) Footings/ rafts/foundation block/bed block	484	CUM		
	B) Columns / Pedestals	182	CUM		
	b) Columns / Fedestals	102	COIVI		
	C) Plinth / Ground beam/SLAB BEAM	30	CUM		
	D) Slab of all types.	207	CUM		
	C) Decree 9 limber	0.7	CLINA		
	E) Beams & lintels.	97	CUM		
	F) Chajja / canopy/ fins/brackets/portals.	4	CUM		
	G) Waistslab, Landings and steps	18	CUM		
	U) Coning	8	CUM		
	H) Coping.	0	COIVI		
	I) Pardi, walls upto 100 mm thicknesss.	5	CUM		
	I) Doud: walls 100, 200 years this king see	20	CUM		
	J) Pardi, walls 100- 200 mm thicknesss.	20	COIVI		
	K) Pardi, walls 200-300 mm thicknesss.	49	CUM		
16	TMT Tor / Mild steel bar reinforcement				
	Providing, fixing and laying in position TMT Tor / Mild steel bar				
	reinforcement of various diameter. for R.C.C. work as per				
	detailed designs, drawings & schedules or as directed				
	including straightening, cutting, bending, hooking the bars,				
	binding with wires or welding and supported as required,				
	providing cover blocks etc. complete (Rate at all heights &				
	levels & including cost of binding wire and / or welding rods				
	)make Sail,Tisco,RINL or equivalent				
	A) TMT Tor steel	89	M.T.		

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S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
17	MS shear dowel bars	165	KG	<u> </u>	
	Providing and fixing MS shear dowel bars in concrete floor as				
	per detail drawing including cutting, bending, laying in				
	position and applying grease to the exposed bar and covering				
	it with PVC pipe cap properly etc. complete at all heights &				
	levels.(16mm dia.and 900 mm long)				
18	Plum concrete	335	CUM		
	Providing and laying plum concrete with using PCC 1:3:6 60%				
	and trap rubble not more than 40% as per detailed designs				
	including dewatering ,centering formwork with shuttering ply				
	& steel plates, Compacting with vibrators, placing and curing				
	etc. complete.				
	Sub Total				
	AAA COMA DV ITTAAC				
D	MASONARY ITEMS -				
19	B.B.M. With Conventional bricks 115 mm thk	20	SQM.		
	Providing & constructing brick masonry with conventional				
	bricks in half brick thick walls (Min.115 mm thick) in cement				
	mortar 1:4 with RCC bands- Patli at every 1.00 m height as per				
	designs including racking out joints, scaffolding, watering &				
	curing etc.				
20	B.B.M. With Conventional bricks 150 mm thk	53	SQM.		
	Same as above as per item no 19 but for 150 mm thk.BBM.				
	I				
21	B.B.M. with conventional bricks in superstructure	501	CUM		
	·				
	Providing and constructing masonry with Conventional bricks				
	in C.M.1:6 in superstructure including constructing in line and				
	level at all depths, racking out joints, scaffolding, watering,				
	curing, striking joints etc. complete.				
22	B.B.M. with conventional bricks in foundation	52	CUM	$\vdash$	
	5.5 The content of the street in foundation.	32	COIVI	<del>                                     </del>	
	Providing and constructing masonry with Conventional bricks				
	in C.M. 1:6 in foundation, steps & in plinth including				
	constructing in line and level at all depths, racking out joints,				
	scaffolding, Watering, curing, striking joints etc. complete.				
				1	

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
23	U.C.R. masonry in foundation	10	CUM	NATE	AIVIOON
25	O.C.K. Masonry III Touridation	10	COIVI		
	Draviding 9 constructing LLCD massage, of transition in CM				
	Providing & constructing U.C.R. masonry of trap stone in C.M.				
	1:6 in foundation and plinth of walls including quions, corner				
	stones and headers, constructing in line & level, racking out				
	joints on exposed faces, scaffolding, watering, curing				
	etc.complete.(Headers to be marked with oil paint before				
	useand shall be one per every sqm.)				
	Sub Total				
	Sub Total				
E	STRUCTURAL STEEL WORK ITEMS -				
24	Churching about your in bot valled costing	20	NA T		
24	Structural steelwork in hot rolled sections	28	M.T.		
	Providing fabricating & erecting structural steelwork in hot				
	rolled sections For columns, tie beams, trusses, purlins,				
	gantry, monorail columns, cable trays, pipe racks, castellated				
	beams, plate girder, staircase & other structural members				
	with all bracing, gusset plates etc. as per detailed drawing or				
	as directed at all heights and levels including removing the				
	scales & burrs, cleaning with phosphoric acid ,marking,				
	Cutting, fabrication, hoisting, erecting & fixing in position,				
	making alignment of members making welded / bolted /				
	riveted connections with one coat of approved red-oxide paint				
	etc complete.(Shop drawing for roofing & cladding to be				
	Submitted by Contractor for approval.)				
25	Foundation bolts				
23	Providing & fixing foundation bolts with nuts & washers in				
	RCC columns or foundations at all depths & heights as per				
	detailed drawings including fixing in position with holdfasts,				
	setting it by laser theodolite, welding wherever necessary etc.				
	complete.				
	A) M.S.foundation bolt	810	KG		
26	SS.decorative railing	23	SQM		
	Design manufacture supply installation of SS pipe railing made				
	1				
	out of stainless steel 50 OD tube (Grade AISI:316) type of				
	height 1100 mm, with a vertical balustrade of 50x10 mm SS				
	flat at every 1500mm C/C distance Railing is provided with				
	intermediate two SS support rods of dia 16 & balustrate fixed				
	to floor by SS floor plate 100 x100 x 3 mm mounted flush into				
	flooring finish, floor plates ancher bolted to floor slab,				
	complete railing shall be fixed by anchor fasteners with ss				
	dome nut as per drawing & as approved in mock up				
	The state of the s				
	-				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
27	M.S.decorative railing with teak wood handrail	27	SQM	1	7
	Providing and fixing M.S. decorative railing with teak wood				
	handrailof size 100 mm x 75 mm,Teak wood handrail to be				
	continious at 'L' and 'U' turns and newel posts for				
	staircases,900 mm high as per detail drawings consisting of				
	MS flats, Square bars, 18 BWG plates including				
	cutting, bending, fabrication, fixing and finishing the steel				
	Work with two coats of synthetic enamel of approved shade				
	and make over a coat of zinc chromate primer and polishing				
	the sill, hand rail and the newel post with clear melamine				
	polish over TW etc. complete.(Weight 35 kg/sqm without TW)				
		20			
28	M.S.railing (Wall Hung)	30	RMT		
	Providing and fixing Polished T.W handrail on wall with M.S.				
	fabricated supports at 1 m c/c. 50 x 50 x 6 as per detail				
	drawings including all fabrication supporting steel flat of				
	50x50x6 mm, running bellow T.W. handrail , the handrail				
	made of seasoned T.W. 100 x 75 shaped as per drawing & as				
	approved in mock up (to be provided by contractor), anchor				
	wall fasteners of approved type & make, clear melamine				
	polishing , enamel painting etc. complete.				
29	S.S.railing (Wall Hung)	9	RMT		
	Providing and fixing Polished SS pipe handrail on wall with SS				
	fabricated supports at 1 m c/c. 50 x 50 x 6 as per detail				
	drawings including all fabrication supporting bellow SS pipe				
	handrail , the SS pipe handrail made our of stainless steel 50				
	OD tube (Grade AISI:316) type, as per drawing & as approved				
	in mock up (to be provided by contractor), anchor wall				
	fasteners of approved type & make, etc. complete.				
	Inductions of approved type a make, etc. complete.				
	Sub Total				
-	DI ACTERING AND WATERPROCEING				
F	PLASTERING AND WATERPROOFING -				
	Providing and laying I.P.S. waterproofing with brick bat coba	600	SQM		
29	upto 150 mm thk	600	SQIVI		
	treatment to terrace slab including -				
	1. Washing the existing concrete surface.				
	2. Laying 1:3 cement mortor base & laying brickbat in layer in CM 1:3 to required				
	slope as per drawing . Top coat of 1:3 cement mortor,	<u> </u>	<u> </u>		
	finishing the top coat with				
	cement slurry.				
_	3. Mixing an integral waterproofing compound of approved				
	make (skott no. 1) at				
	1.0 kg per bag of cement at all stages.				

ista En	gineering Project.Pvt.Ltd.	Conference	e and Led	cture Halls at	t IITM,Pashar
S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
	4. Injection grouting with non shrink cementacious grout of				
	approved				
	manufacturer ( FOSROC,SIKKA or equivalent)at construction				
	junctions.				
	5. Item shall include curing, cleaning, giving 7 days pond test				
	and 10 years				
	guarantee.				
	6. Waterproofing shall be carried out upto 300 mm above				
	finished terrace level with				
	terrace level with coving.				
	(Measurement given, is clear plan dimensions)				
30	Internal cement plaster (with neeru finish)	2575	SQM		
	Providing & applying internal cement plaster to walls				
	(minimum thickness 12 mm) in cement mortar 1:4 with Neeru				
	finish to concrete, stone or brick surface including roughening				
	the concrete surface, applying the base coat in line & level,				
	scaffolding, cleaning & curing etc. complete with grooves,				
	pattas etc, wherever specified at all heights, levels and floors.				
31	External sand faced plaster	1392	SQM		
	Providing & applying externally sand faced plaster over brick stone or concrete surface in two coats (minimum thickness 20mm) using well graded sand, including roughening the concrete surface, applying base coat in C.M. 1:4 in proper line & level using waterproofing compound of approved manufacturer at 1kg per cement bag, curing the same for not less than two days and keeping the surface of the base coat rough to receive the sand faced treatment, applying second coat in C.M. 1:4, finishing the surface by taking out grains and curing for not less than 14 days etc. at all heights and levels as per drawings including curing, scaffolding, including making of dhar, pani patti, groove etc. complete	;			
32	Expanded metal mesh	828	SQM		
	Providing, fixing & placing in position chicken wire mesh over the joint of R.C.C and brickwork, and / or wherever required to hold the extra thickness of plaster, including tightening mesh, scaffolding, etc. complete.				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN'
33	Waterproofing treatment to toilet pits	227	SQM		
	Waterproofing treatment to toilet pits with cleaning the slab				
	surface with wire brush and washing the slab surface				
	thoroughly, applying waterproof plaster in cement mortar 1:3				
	using approved				
	waterproofing compound to sides and slab surface, finishing				
	necessary laps on walls, watas at junctions of walls etc.				
	including cleaning, watering, curing, giving seven days pond				
	test etc. complete.				
24	Motorproof comput whater	227	COM		
34	Waterproof cement plaster	227	SQM		
	Providing & applying waterproof smooth finish cement				
	plaster in Cement mortar 1:4 (minimum thickness 12 mm)				
	with waterproofing compound of approved make to concrete,				
	brick or stone masonry surfaces, ceilings including roughening				
	concrete surface, scaffolding, curing, cleaning etc. complete at				
	all heights,. levels & floors				
	Sub Total				
G	FLOORING ITEMS -				
	1200KiNG TEMS				
35	Kota flooring	19	SQM		
	Providing and laying in all position polished kotta stone flooring 25 mm thick of 600 x 600 mm size in plain pattern on a bed of cement mortar 1:6 including laying in required position and in line & level, cement float, filling joints with neat cement slurry, curing, polishing, cleaning etc. compete. (Tiles to be hand dressed & to fit correctly and sluggishly against each other & shall form very fine joint.) Note:-colour of Kotta should be uniform.				
36	Kota skirting	1	SQM		
30	now and tillg		JQIVI		
	Providing and laying approved quality polished Kota stone 20				
	mm thk for treads, risers, skirting & cladding as directed on a				
	bed of 1:4 cement plaster including laying in required position				
	and in line & level, filling joints with neat cement slurry,				
	curing,polishing exposed edges ,cleaning etc. complete.				
27	(Due wellshed Indian Ingeneral County floridge	F00	2014		
37	'Pre-polished Indian Juparana' Granite flooring	590	SQM		
	Providing & laying approved quality 25 mm thick Prepolished				
	Granite flooring in required position & in line and level on a				
	bed of 1:6 cement mortar (50 mm thick) including maintaining				
	the flooring with the layer of POP, cement float, filling joints				
	with matching color cement slurry, polishing, curing and				
	cleaning etc. complete (Basic Rate-180 sqft)				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
38	'Pre-polished Indian Juparana' Granite skirting	20	SQM		
	Drawiding and laving approved quality Dranglished Cranita				
	Providing and laying approved quality Prepolished Granite				
	stone 20mm thk for treads, risers, skirting & cladding as				
	directed on a bed of 1:4 cement plaster including laying in				
	required position and in line & level, filling joints with neat				
	cement slurry, curing, polishing exposed edges				
	cleaning, maintaining the flooring with the layer of POP etc.				
	complete.(Basic Rate-180 sqft)				
39	Graniteflooring				
	Providing & laying approved quality 25 mm thick natural stone				
	flooring in required position & in line and level on a bed of 1:6				
	cement mortar (50 mm thick) including maintaining the				
	flooring with the layer of POP, cement float, filling joints with				
	matching color cement slurry, polishing, curing and cleaning				
	etc. complete				
	A) Granite flooring (Basic Rate-150 sqft)	175	SQM		
	, ,				
40	Granite skirting	18	SQM		
	Providing and laying approved quality polished Granite stone				
	20mm thk for treads, risers, skirting & cladding as directed on				
	a bed of 1:4 cement plaster including laying in required				
	position and in line & level, filling joints with neat cement				
	slurry, curing,polishing exposed edges ,cleaning etc. complete.				
41	Flame finished Granite tread & riser	49	SQM		
	Providing and laying approved quality Prepolished granite 20				
	mm thick for treads(with 15 mm wide flamed friction strip as				
	per design drawing .) & risers in line & level on a bed of 1:6				
	cement plaster including cement float, filling joints with				
	matching colour cement slurry, curing, edge polishing,				
	complete.(Basic Rate-150 sqft)chamfering ,cleaning, etc.				
42	Vitrified tile flooring	210	SQM		
	Providing and fixing Vitrified tiles of 597 x 597 mm size of				
	approved make and colour finish for flooring in required				
	position & in line and level as directed, set on a bed of 1:6				
	cement mortar (min.35 mm thick) including cement float,				
	maintaining the flooring with the layer of POP and filling the				
	joints with matching colour cement slurry, curing, rubbing				
	,cleaning etc.complete. (Basic rate of tile -				
	80/sqft)(make:Kajaria,Nitco,RAK or equivalent)				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
43	Vitrified tile Skirting	6.01	SQM	IVAIL	AWOON
+3	Vicinied the Skirting	0.01	JQIVI		
	Providing and fiving Vitrified tiles skirting of 100 mm high of				
	Providing and fixing Vitrified tiles skirting of 100 mm high of				
	approved make and colour finish for flooring in required				
	position & in line and level as directed, set on a bed of 1:6				
	cement mortar, filling the joints with matching colour cement				
	slurry, curing, rubbing ,cleaning				
	etc.complete.(make:Kajaria,Nitco,RAK or equivalent)				
44	Granite platform for counter top basins	10	RMT.		
	Providing & laying granite platform for counter top basins of				
	750 mm wide with granite supports for vertical and kadappa				
	below granite as per the detail drawing etc., including fascia				
	patties and rounding or polishing the exposed edges as per				
	drawing, cutting for basin opening, sealing all crevices with				
	silicon sealant, laying Cement mortar 1:6 between granite and				
	kadappa etc. complete.(Basic Rate-150 sqft)				
45	Ceramic tiles flooring	112	SQM		
43	ceramic tiles nooring	112	JQIVI		
	Providing & laying colored antiskid Ceramic tiles of approved				
	size ,make, color & quality for flooring in required position &				
	in line and level on a bed of 1:6 c.m. (min.35 mm thick)				
	including cement slurry, filling joints with matching color				
	cement slurry, curing and cleaning etc. complete( Basic rate of				
	tile - 65/sqft)(make:Kajaria,Nitco,RAK or equivalent)				
46	Dado				
	Providing and laying colored glased tiles of approved finish				
	size, make, Color and quality for dado & skirting in required				
	position & in line and level on a leveled plaster bed including				
	cement slurry, filling the joints with matching color cement				
	slurry, curing and cleaning etc.				
	complete(make:Kajaria,Nitco,RAK or equivalent)				
	B) Ceramic glased tiles (Basic rate-Rs. 75 /sqft)	288	SQM		
	b) Cerainic glased tiles (Basic Fate-Ns. 73/5411)	200	3QIVI		
47	Urinal partitions				
	Providing & fixing urinal partitions of size 1200 x 600 mm and				
	20 mm thk polished on both sides and chamfering on front				
	edge including fixing in position in line and level in cement				
	mortar 1:4,curing,edge polishing, cleaning etc. complete.				
	B) Granite partitions (Basic Rate-150 sqft)	8	SQM		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
48	Granite window sill,treads & risers	40	SQM		
	Providing and laying approved quality prepolished granite 20		,		
	mm thick for window sill, treads & risers in line & level on a				
	bed of 1:6 cement plaster including cement float, filling joints				
	with matching colour cement slurry, curing, edge polishing,				
	chamfering ,cleaning,nosing etc.complete.(Basic Rate-150				
	sqft)				
40	w	70	6014		
49	Kota window sill,treads & risers	72	SQM		
	Providing and laying approved quality Kota 20 mm thick for				
	window sill, treads & risers in line & level on a bed of 1:6				
	cement plaster including cement float, filling joints with				
	matching colour cement slurry, curing, edge				
	polishing, chamfering, cleaning, nossing etc. complete. (Basic				
	Rate-40 sqft)				
50	IPS Stained Flooring	415	SQM		
	[IPS Flooring] - Providing and Laying IPS flooring, 75 mm thick				
	in Cem:Sand:Aggregate proportion of 1:2:4 (max. 12 mm size				
	Metal aggregate) laid to proper and approved slope & finished				
	smooth with a Tremix vibrator without any marking lines, and				
	stained with approved color stainer of ASIAN PAINTS or equi.				
	brand as per process to approval.				
	brand as per process to approvar.				
51	Trimix Flooring				
	Providing and laying plain or reinforced cement concrete				
	1:1.5:3 for floor in bays (including formwork providing joints				
	and placing inserts, forming pockets if required for m/c legs,				
	columns etc. as per the drawings) including levelling the				
	concrete surface, providing Tremix treatment to the cement				
	concrete floor comprising of screed vibrating and levelling of				
	concrete surface, vacuum dewatering, bull floating and				
	striking off, power floating and power trowelling, curing by				
	ponding for 14 days, cleaning etc. complete.(The tremix				
	concrete surface to be thoroughly cleaned with washing,				
	manual scraping of all the adhered dust, after the curing is				
	over And the concrete surface should be completely dry).	70	6014		
	A. 150 mm thick concrete.	70	SQM		
	B. 100 mm thick concrete.	40	SQM		
	1	<del> </del>	<del> </del>		
52	Groove cutting				
52					
52	Cutting grooves in concrete floor as per detailed drawings				
52	Cutting grooves in concrete floor as per detailed drawings with concrete floor cutter including cleaning etc. complete.	60	DA 4T		
52	Cutting grooves in concrete floor as per detailed drawings	60	RMT RMT		

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S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN'
	PU foam sheet for expantion joint	ζ	Oltil	MAIL	AMOUN
33	1 & Tourn street for expandion joint				
	Providing and fixing PU Foam sheet at expansion joint for full				
	length as per instructions of manufacturer,infill fordeep				
	joints,making the joint watertight,cleaning etc.complete.				
	A. In R.C.C. work - 25 mm thick	8	SQM		
	B. In Concrete Floor - 12 mm thick	10	SQM		
54	Providing and filling Polysulphide Joint filler				
	Groove filling with polysulphide joint filler Providing and filling polysulphide joint filler of approved make				
	Flexotex -120 in expansion joints of RCC work, Concrete floor etc. including cleaning the joint with wire brush,providing				
	bond breaker whwrever necessary, fillingthe joint with polysulphide				
	sealent, sanding the same properly to give proper level etc. complete. (Joint filling shall be carried out as per				
	manufacturer's instructions) Manufacturer - M/s. Varunsak.				
	Authorised dealers - Jaison Engineering Technology.				
	(make of material :- Chemtrall Rai )				
	A) Joint Filling size - 12 mm wide X 15 mm deep.	60	RMT		
	B) Joint Filling size – 06 mm wide X 75 mm deep.	10	RMT		
	D : !!				
	Providing and laying PVC sheet of 250 microns thickness				
	below concrete floor including cutting the sheet in required				
FF	size, laying the sheet, providing laps at the joints etc.	110	COM		
55	complete.	110	SQM		
	Sub Total				
	Sub Total				
Н	PAINTING AND FINISHING -				
56	White wash	3967	SQM		
	Providing and applying whitewash in two coats on plastered or masonry surface at all heights including scaffolding, preparing the surface by brushing brooming down etc. complete.(make:Berger,Asian or equivalent)				
	COMPLETE (Make:Rerger Asian or equivalent)				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
57	Dry distemper	20	SQM		
	Providing and applying Dry distemper of approved make and shade on all surfaces & at all heights in three coats including scaffolding, preparing the surface by brushing/grinding the concrete edges and brooming down, applying primer palti etc. complete. (make:Berger, Asian or equivalent)				
58	Acrylic Emulsion (Oil bound distemper)	20	SQM		
	Providing and applying Acrylic emulsion (oil bound distemper) of approved make and shade on all surfaces & at all heights in three coats including scaffolding, preparing the surface by brushing and brooming down,applying primer, palti and a coat of Birla white putty etc. complete(make:Berger,Asian or equivalent)				
59	Weather Proof Exterior Grade Emulsion	1392	SQM		
	Providing and applying 100% Weather Proof Exterior Grade Emulsion (Apex Acrylic exterior paint from J & N, Nerolac or equivalant) of approved shade to the plastered or exposed brick or stone or concrete surface in two coats including preparation of the surface, a coat of approved primer, birla white putty scaffolding, curing, cleaning etc. complete.(make:Berger,Asian or equivalent)				
60	Synthetic Enamel paint for structural steel				
	Providing and applying Synthetic Enamel paint in two coats over structural steel surface as per the manufacturers instructions & of approved shade and make including preparing the surface, applying zink chromate primer ,scaffolding ,cleaning etc. complete(make:Berger,Asian or equivalent)  A) For H. R. Sections	28	M.T.		
	B) For C. R. Sections	5	M.T.		
61	Plastic Emulsion	2535	SQM		
01	Providing and applying plastic Emulsion (Luster )of approved make and shade on all surfaces & at all heights in three coats including scaffolding, preparing the surface by brushing and brooming down, applying primer, palti & a coat of Birla white putty etc. complete The dry/wet cleaning of floors/pipes/glass etc after painting is to be carried out.(make:Berger,Asian or equivalent)	233	SQIVI		
	Sub Total				
	Jan Total		<u> </u>		
	-	-			

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
J	DOORS AND WINDOWS -				
62	Teak wood frame				
	Providing and fixing C.C.T.W. frame as per detailed drawings				
	with M.S. hold fasts 4 nos. on each side, bar spacer(12mm				
	dia) bolted at the bottom of the frame as per details etc.				
	complete including making the frame, fixing TW cover molding				
	around the frame adjecent to wall and applying two coats of				
	synthetic enamel paint of approved shade and make over a				
	coat of primer on the other faces				
	A) 100 mm x 75 mm	191	RMT.		
63	Flush door	76	SQM		
- 0.5		,,,	JQIVI		
	Providing and fixing approved quality factory made solid core				
	flush door in single/double leaf 38mm thick BWR type				
	plywood surface on both sides , TW bidding on all edges				
	,doors to be of exterior grade as per the detailed drawings				
	including fixing the door and finishing with two coats of				
	synthetic enamel of approved shade and make over a coat of				
	primer etc.complete				
		2.4			
64	S.S.fixtures and fastenings for single leaf door	34	NO.		
	Providing and fixing S.S. fixtures and fastenings for single leaf				
	door as per following details-				
	Fixtures to be for one door-				
	1.Dorma/or equivalent make Round knob Handles				
	with cylindrical lock arrangement 1 Set.				
	2. Hinges 100mm -3 Nos,				
	3.Door Stoper-1Nos,				
	4.Door Closer-1Nos				
65	M.S.Rolling shutter				
	Providing and fixing M.S. Rolling shutter of approved make,				
	fabricated from 18 guage steel laths with side guide bottom				
	rail, brackets, door suspension shaft, housing box at the top,				
	including all approved quality fixtures & fastenings, including				
	25 mm dia rubber tube at bottom, fabrication, fixing &				
	finishing with two coats of Synthetic enamel of approved				
	shade and make over a coat of primer etc. complete.				
	Mechanically (Gear) operated shutters	21	SQM		
	1. meanameany (dear) operated smatters	-1	30111	+	

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ista En	gineering Project.Pvt.Ltd.	Conference	ce and Lec	ture Halls a	t IITM,Pashan
S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
66	Fully glazed aluminium DOOR	37	SQM		
	Providing and fixing in position approved make fully glazed aluminium door manufactured out of HE 9 WP high grade aluminium alloy sections of approved make conforming to I.S.specifications of various sizes as per detail drawing including 6 mm clear float glass with mitered shutter joints, with nylon rollers, mastic sealing, sealing the creavices around the frame with sealant, powder coating 50 microns thk. of approved shade from the approved agency, all fixtures such as floor pivots or hinges, handles, locking arrangement, door closers etc. shall be of approved make and type. Cost Includes door closer ' Dorma make'				
67	Acoustical wooden Door	6	NOS		
	Shutter: - Avg 70 mm thick Solid core Flush door with both faces natural veneer over plyboard; fabricated with skeletal support frame 40 x 40 S.W members @ 600mm C/C, with 12mm marine ply on both faces, avg 40mm thk 1000 gsm micron acoustic wadding infill as approved. Natural veneer to be 3.5 mm thk. of approved type and shade, veneer fleece mounted on BWR grade plyboard skin; finished as double coat of PU Clear matt polish. Shutter to be TW lipped of avg. size 12x75 mm, PU Clear matt polished.		Nes		
	Door frame:-				
	Fabricated from 100 x 150 T.W. rebated door frame profile with 4 No. Hold fasteners on each vertical jamb fixing to wall / RCC surface complete as per design, drawings, and acoustic consultant instructions. Polish to be as of shutter above				
	Door Fitings				
	PROVIDING & FIXING  INTUMESCENT STRIP – 1 no per shutter, proprietary shielded intumescent smoke stop strip in one rebate on three edges except the bottom.				
	SILICON DOORSEALS: 1 no. per shuter in one rebate on three edges except the bottom.  Hinges:-102x102x3 stainless steel Hinges of DORMA or				
	HAFELE make 4 Nos / shutter.  Tower Bolts :300 mm long manual flushbolt SS 316 grade of 'brushed steel' finish				
<u> </u>	Door closers etc.complited				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
68	Fire escape door				
	Providing fixing FIRE ESCAPE steel door of approved make, single/double leaf with 2 mm thk ms sheet on both sides fitted on internal ms hollow tube framing, duly filled in with PU foam insulation, door frame of pressed ms sheet 2 mm thk, 10mm square bar bracing at bottom, double glass view panel, including all approved type heavy duty fastenings and fixtures comprising of :S.S. hinges, Panic bar handle inside, air seal gaskets between shutter and frame, rubber strip at bottom etc complete. Door to be certified as per CBRI norm.(				
	Supplier : Shaktimate/Seth fabricator)				
	a) D-2000 X 2500 mm	1	NOS		
	b) D -1500 X 2500 mm	1	NOS		
69	Fully glazed aluminium windows				
	Providing and fixing in position approved make fully glazed aluminum windows manufactured out of HE 9 WP high grade aluminum alloy sections (Zindal make) confirming to I.S. specifications with sub frame framing 100x35 mm, sliding sections of 25 mm series				
	A) Two track two shuttered window with 6 mm thick clear glass of				
	'Modi' make.		SQM		
	B) Fixed glass window with 6 mm thick Float glass.	13	SQM		
	C) Three track three shuttered window with 6 mm thick clear glass of				
	'Modi' make.		SQM		
	D) Louvred window with 6 mm thick float glass of approved make and				
	colour with provision of exhaust fan etc.	6	SQM		
	F) N type window with 6 mm thick float glass.		SQM		
	G) Top hung window with 6 mm thick float glass.		SQM		
	H) With ACP panels		SQM		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
70	Glass Façade	89	SQM		
70	Providing, supplying & fixing in position structural glazing work as per manufacturers' shop drawings- duly approved by architect, inclusive of LAMINATED 6+1.52PVB+6 mm sandwich laminated toughened, low-e inside and clear float glass out side of shade and tint of Saint Gobain or equivalant as approved by Architects/Client, as per drawing. The system to be of Al mullion-transom backer grid frame mounted on the inner side of glazing Al avg. 2mm or more thick, extruded section and external covered extruded profile of 100 x 40 mm fixing on horizontally and vertically in all sides and colour anodised to avg. 25 micron as per approved colour & finish, all SS fixtures & fastenings of approved grade; floor & topmost transom to be matching mullion in depth(avg. size 60 x 100) so as to form a peripheral frame. The item to be crosschecked with structural engineering design and calculations for support sections & fixing hardware by the vendor and item to include same alongwith getting part mock-up at site approved from the architects. Item to include all water pressure testing on unit section, fixing brackets, SS fasteners, sashes, cleaning, hardware, fixtures, accessories complete as approved by the architects; fixed installed complete	89	SQM		
	Sub Total				
<u> </u>	MISCELLANEOUS ITEMS				
	I I I I I I I I I I I I I I I I I I I				
71	2X2 Grid false ceiling	798	SQM		
	Providing & fixing mineral fiber ceiling prima fine fissured or approved with Tegular edge of Armstrong or equivalent make with powder coated grid including cutouts for light fixtures / AC grills, diffusers & necessary framework /support required from the ceiling, etc complete.				
72	Plinth protection	10	SQM		
	Providing and laying Plinth protection to the outer walls of the building including necessary excavation, metaling of 150mm, laying 100 mm thick PCC 1:4:8 concrete and 100 mm thick reinforced cement concrete 1:2:4 with broom finish including formwork etc complete				
73	Anchor fastner for concrete				
/3	Providing and fixing anchor fastner for concrete including drilling holes filling holeswith Nitomorter PE and cleaning. With necessary holes, filling scafollding etc. complete. Fischer or equiv.approved make)	2	NO		
	A) 8mm dia	2	NO.		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
	B) 10mm dia	2	NO.	10.112	7
	C) 12mm dia	2	NO.		
	D) 16mm dia	2	NO.		
	D) Tomm dia		110.		
74	Anchor fastner for masonry				
	Providing and fixing anchor fastner for masonry including				
	drilling holes with nitomorter PE and cleaning. With necessary				
	sacfollding etc. complete. Fischer or equiv.approved make)				
	sacrolluling etc. complete. Tischer of equiv.approved make j				
	A) 8mm dia	2	NO.		
	B) 10mm dia	2	NO.		
	D) 12mm dia	2	NO.		
	E) 16mm dia	2	NO.		
75	Making through holes				
	Making through holes in plain or reinforced cement concrete				
	with Diamond core drilling system by using Bosch power				
	tools.of following diameters. Rate in Dia/mm				
	-				
	a) 52 mm	2	NO.		
	b) 82 mm	2	NO.		
	c) 112 mm	2	NO.		
	d) 122 mm	2	NO.		
	e) 152 mm	2	NO.		
	f) 202 mm	2	NO.		
76	Bare"Galvalume/Zincalume" MS sheets for roofing	600	Sqm		
	Providing and fixing bare "Galvalume/Zincalume" MS				
	sheets0.55mm thick (TCT) for roofing including all approved				
	quality fastenings including all approved quality fastenings,				
	fixings like metal washersNeoprene / EPDM washers,caps,side				
	stiching, riveting, mastic taping etc. complete with all				
	scaffloding and giving watertightness test & guarantee etc.				
	complete. (Depth Of corrugation shall be 40 mm and overlap				
	of sheets shall be 250 mm) (make:Bluescope,Cril,Safintra,Inter				
	Arch)				
	7401)				
77	Precoated sheets flashing				
	Providing and fixing precoated metal plain sheets 0.5 mm thk.(				
	TCT ) for flashings made out of CR hot dip galvanised with				
	epoxy primer, 275 gsm zinc coating & organic polyster coating				
	on the top and pure polyster coat on back coat including all				
	quality fastenings, fixing with self tapping screws from				
	Buildtex, internal butt strap inlayed gasket,metal washers and				
	Neoprene / EPDM washers etc.				
	complete.(make:Bluescope,Cril,Safintra,Inter Arch)				
	a) Upto 300 mm Girth	70.00	Rmt		
		70.00	MIII		
			Ī		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
5	b) Upto 600 mm Girth	20	Rmt	IVAIL	Airiooiti
	ay opto occ mm c.i.v.				
	Sub Total				
М	SANITATION AND PLUMBING -				
78	Indian WC	7	NO.		
	Providing and fixing in position INDIAN WATER CLOSET				
	from Duravit/Kohler Sanitary ware including automatic				
	flush tank of 5/10 liter capacity at required line & level				
	including:				
	1) 575 mm white/color glazed earthenware WC pan of				
	Orissa type. 2) Concelled allied flush valve(Make				
	Hindware)				
	ininawarej				
	European WC( Make-Kohler, Item code K-17647T-5 or				
79	equivalent)	8	NO.		
	Providing and fixing in position EUROPEAN WATER				
	CLOSETS from Duravit/Kohler or equivalent Sanitary				
	ware (Floor / Wall mounted) at required line and level				
	including:				
	1) White/color glazed earthenware WC pan of approved				
	make with integral P or S trap including C.I. connections				
	. 2) Concelled allied flush valve				
	1. 2) Concened anied ridsh valve				
80	Sensor operated Urinal	10	NO.		
	Providing and fixing URINALS at required line and level				
	including:				
	1) White/colored glazed vitreous Flat back large urinal				
	from Duravit/Kohler or equivalent Sanitary ware as per				
	detailed drg and catalogue no.				
	(make- Kohler -k-5017N - ER010 or equivalent))				
	Timake Komer K 301/14 Enoto of Equivalent()		1		
81	Wash basin	17	NO.		
	Providing and fixing in position WASH BASIN (Under				
	counter) at required line & level including :				
	A) Colored glazed earthenware wash basin from				
	HINDUSTAN Sanitary ware Oval shaped.				
	B) 32mm dia brass CP bottle trap with waste coupling				
	and joints and 32 mm (make- Hindware zen- cat. No.				
	10049 or equivalent))				
	170042 OL Edalagicii()				
82	Nahani trap	36	NO.		
	Providing and fixing in position 100 mm dia C.I. NAHANI		1.3.		
	TRAPS including necessary beddings, up to the outside				
	face of the wall & stainless steel heavy type grating with				
	ring of approved type complete.				
	Iring or approved type complete.		1		

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOU
83	Gully trap	22	NO.		
	Providing and fixing in position STONE WARE GULLY				
	TRAP of size 150 x 100 mm including C.I. cover and				
	frame, PCC 1:3:6 in foundation, 230 x 300 mm chamber				
	of brick masonry in C.M.1:5 with neat cement rendering				
	including excavation & refilling etc. complete.				
84	Inspection chamber with Cl				
	Providing and constructing masonry INSPECTION				
	CHAMBERS up to 1500 mm depth in 230 mm thick				
	conventional brick masonary in C.M. 1:6,including				
	excavation up to 1.5 depth in all kind of strata(excluding				
	Hard rock), 100 mm thick 1:3:6 P.C.C. bedding, plaster in				
	C.M. 1:4.				
	A) 600 mm x 450 mm	1	NO.		
	B) 600 mm x 600 mm	6	NO.		
	C) 600 mm x 750 mm	1	NO.		
	D) 600 mm x 900 mm	6	NO.		
	E) 900 mm x 900 mm	1	NO.		
85	Inspection Chambers with precast			+	
65					
	Providing and constructing masonry INSPECTION				
	CHAMBERS up to 1500 mm depth in 230 mm thick				
	conventional brick masonary in C.M. 1:6,including				
	excavation up to 1.5 m depth in all kind of				
	strata(excluding Hard rock), 100 mm thick 1:3:6 P.C.C.				
	bedding, plaster in C.M. 1:4 fro				
	A) 600 mm x 450 mm	1	NO.		
	B) 600 mm x 600 mm	5	NO.		
	C) 600 mm x 750 mm	1	NO.	-	
	D) 600 mm x 900 mm	5	NO.		
86	RCC hume pipe				
	Providing, laying and jointing RCC HUME PIPES of NP 2				
	class with all specials below ground level at all depths				
	including cutting, jointing with hemp yarn & C.M.1:1 and				
	testing including excavation up to Hard rock & refilling,				
	cleaning etc. complete(Note:if required end casing in				
	1:2:4 Concrete should consider be exta). Excavation in				
	hard work shall be approved and paid extra				
	A) 150 mm dia.	40	RMT.		
	B) 200 mm dia.	20	RMT.		
	C) 300 mm dia.				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN
87	CI Pipes	٠	0	10112	7
<u> </u>	Providing, fixing in position & jointing CI Pipes (Heavy				
	Duty) with all specials such as bends, tees, single				
	junctions, double junctions, offsets, cowls etc. with				
	appropriate jointing, including making holes in walls &				
	floors, testing the line and joints.  A) 80 mm dia. waste pipe	10	RMT.		
	B) 100 mm dia. waste pipe	10	RMT.		
	b) 100 mm dia. Waste pipe	10	IXIVIT.		
88	GI pipe				
	Providing, laying and jointing 'C' Class G.I. Water Supply				
	Pipes with all specials such as bends ,sockets ,back nuts				
	,elbows ,tees ,reducers ,clamps etc. including fixing in				
	walls or under floor or ground with necessary excavation				
	and back filling.				
	B) 15 mm dia. Concealed	60	RMT.		
	C) 20 mm dia. open	5	RMT.		
	D) 20 mm dia. concealed	10	RMT.		
	E) 25 mm dia. open	5	RMT.		
	F) 25 mm dia. concealed	60	RMT.		
	G) 32 mm dia. Open	5	RMT.		
	H) 32 mm dia concealed	80	RMT.		
	I) 40 mm dia. open	50	RMT.		
	J) 50 mm dia. open	10	RMT.		
89	Ball Valves				
	Providing and fixing Heavy Quality Gun Metal Ball Valves with				
	stainless steel ball complete.				
	A) 25 mm dia.	2	NO.		
	B) 32 mm dia.	1	NO.		
	C) 40 mm dia.	2	NO.		
	D) 50 mm dia.	1	NO.		
90	Long body Bib cock	7	NO.		
	Providing & fixing long body CP bib cock 15 mm dia of				
	approved quality & make with all specials, fittings etc.				
	complete. (make- Jaguar clazion 23107 or equivalent)				
01	Two way Bib cock	8	NO.		
91		0	INO.		
	Providing & fixing Short body CP bib cock 15 mm dia of				
	approved quality & make with all specials, fittings etc.				
	complete. (make- Jaguar, item code-23041or equivalent)				
	•				

S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
92	Stop cock	44	NO.		
<u> </u>	Providing & fixing brass angular stop cock of 15 mm dia				
	of approved Quality & make with all specials, fittings etc.				
	complete.(make-: clarion 23053 or equivalent)				
	,				
93	Piller cock	16	NO.		
33	Providing & fixing short body CP pillar cock 15 mm dia of	10	NO.		
	approved quality & make with all specials, fittings etc.				
	complete. (make-Jaguar ,PRS -031or equivalent)				
94	Push cock		NO.		
34	Providing & fixing CP push cock 15 mm dia of approved		NO.		
	quality & make with all specials, fittings etc. complete.				
	(make-Jaguaror equivalent)				
95	Mirror	16	SQM		
	Providing and fixing mirrors in toilets including MS				
	powder coated frame, 12mm ply backing and Belgium				
	make mirror with all hardware.				
96	Paper holder	15	NO.		
	Providing and fixing paper holder of approved make in				
	toilets with all specials etc. complete.( make-Jaguar,				
	Item code-7751 queen's or equivalent)				
97	Towel rod	17	NO.		
	Providing and fixing towel rod of approved make in				
	toilets with all specials etc. complete. ( make-Jaguar				
	Continental 1111N or equivalent)				
98	Soap dish	17	NO.		
	Providing and fixing ceramic soap dish in toilets including				
	fixing in position and in line and level with cement slurry,				
	curing, cleaning etc. complete.( approved )				
99	'SINTEX' tank	4	Nos		
	Providing and fixing "SINTEX" water storage tank of				
	approved make and of required capacity including all				
	connections, accessories, transportation, hoisting,				
	erection etc. complete.(2000 Litre capacity )				
100	Non return valves				
	Providing and fixing approved make gun metal non return				
	valves etc. complete				

	T		Conference and Lecture Hails at ITTM, Fashan			
S.NO.	ITEM DESCRIPTION	QTY.	UNIT	RATE	AMOUN	
	A) 50 mm dia.	2	NO.			
	B) 75 mm dia.	1	NO.			
101	Flush valves					
	Providing and fixing approved make gun metal flush valves					
	etc.complete					
	A) 32 mm dia.	17	NO.			
102	Stone ware pipes					
	Providing, laying and jointing the best quality stone ware pipes with all specials fittings such as bends, tees, junctions, double junctions etc. below ground at all depths including cutting, jointing with hemp yarn & Cement Mortar.1:1and testing.					
	A) 100 mm dia.	10	RMT.			
	B) 150 mm dia.	10	RMT.			
103	PVC Down take pipes of 200 mm	66	RMT			
	Sub Total					
104	ELECTRICAL (Concealed Conduits)					
	Supply and installation of Surface / concealed 25mm dia Heavy Duty PVC Conduit with spacer saddles and including all necessary accessories required to complete the Job (Coupler,Tees,Bends,Elbows,Sockets,JBs etc.).	500	RMT			
	Sub Total					
	Total					

