

TENDER

FOR

**CONSTRUCTION OF TRAINING HALL AT KANAGALA
FACTORY OF HLL, BELGAUM**

**PART-III
PRICE BID**

**TENDER NO. HLL/ID /15/03
APRIL 2015**



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1 COMMERCIAL CONDITIONS

- 1.0.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.
- 1.0.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for Construction of training hall at Kanagala Factory of HLL, Belgaum.
- 1.0.3 The quoted price shall be inclusive of all taxes and duties whether payable by the contractor or to be deducted at source. This shall include those applicable among VAT, Sales Tax, Income Tax, Customs Duty, Excise Duty, Turnover Tax, Service Tax, Work Contract Tax, Octroi, Labour Welfare Cess Or any Other Taxes and Duties prevailing in respect of this contract. ANY BID STATING THAT TAXES ARE EXTRA WILL BE SUMMARILY REJECTED.
- 1.0.4 The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.
- 1.0.5 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

1.1 UNIT RATES

- 1.12 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

1.2 BRIEF DESCRIPTION OF PRICING

- 1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.
- 1.2.2 The price quoted shall be the final amount for this finished work.

1.3 INCOME TAX

Any payment to the contractor as per contract will be made after deducting income tax as per the rules and regulations.

1.4 SALES TAX AND EXCISE DUTY

The tenderer shall clearly indicate sales tax, Excise and other duties as applicable in his offer for carrying out this work.

1.6. SUBMISSION OF BILL

1.6.1. The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer / Engineer-in-charge and the said measurement sheets shall be submitted by him with the relevant bill.

1.7. EXTRA ITEMS

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

1.7.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

1.7.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

1.8. OVER TIME WORK

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

- 1.8.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.
- 1.8.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.
- 1.8.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.
- 1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purposes.

2. SPECIAL CONDITIONS

EXECUTION WORK

- 2.1. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

2.2. CERTIFICATE OF COMPLETION

- 2.2.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.

- 2.2.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.
- 2.2.3 The defects liability period of one year shall commence from date of such completion or any specific date mentioned therein.

**LIST OF APPROVED MAKES / AGENCIES FOR CIVIL & PLUMBING
MATERIALS**

S. N	Materials	Manufacturers / Agencies
1	Ready mixed Concrete	Lafarge/RMC/RAMCO/ACC/Birla
2	Ordinary Portland Cement (Minimum 43 Grade)	UltraTech / RAMCO / India / Dalmia/ Cements/Birla/ ACC /Madras Cements
3	Steel Reinforcement/Structural Steel (Each LOT shall accompany manufacturer's Test Certificate)	SAIL, TISCO, RINL, JINDAL , ESSAR or BIS approved manufacturers
4	Stainless Steel	Salem Steel or as approved by E-IN-C
5	Sand	River sand or M sand subject to test criteria and approval by E-in-C
6	White Cement	JK Cement, Birla White
7	Bricks, Stones slabs, Lime, Neeru Stone aggregate & fine aggregate	Subject to test criteria and sample to be got approved by E-in-C before use
8	Vitrified Tiles	Nitco, Johnson, Naveen, Euro, Morbito, Somany
9	Flush doors	Kutty Flush Doors, Mysore Boards, Indian Plywood Mfg, Co, 'KIT' Ply' brand or any BIS approved brand
10	Fire check steel doors	Godrej, Sukri, Saktimet, Navair, Pacific works controls
11	FRP Doors	Fibrevent, Techno skills or Equivalent (or as approved by E-IN-C)
12	Aluminium Fittings	Everite, Garnish, Crown Classic
13	Hydraulic floor Spring/ Door Closers	Everite, Garnish, Hardwyn
14	Aluminium Extruded Sections	Jindal, Hindalco, Indalco
15	Aluminium Doors/Windows	Fabricator to be approved by E-IN-C
16	Paints, Distempers	Jenson & Nicholson, Asian, Berger, ICI, Nerolac
17	Glazing	Float Glass of Modiguard or Saint Gobain
18	Water proofing Works	As approved by E-IN-C
19	Water Proofing Cement Paint	Showcem India, ICI, Nerolac
20	Ceramic Glazed Floor Tiles	Nitco, Johnson, Somany, Naveen
21	Super plasticizer	CICO, MC Bauchemie (India) Pvt Ltd, Roffes Construction Chemicals, Pedilite Industries, FOSROC
22	PVC Flooring	Armstrong
23	False Ceiling (a) Fibre (b) Galvanized Steel (c) Calcium Silicate	Armstrong, Gyproc or Equivalent Armstrong, Gyproc, Hunter Douglass or Equivalent Aerolite, Gyproc or Equivalent

24	Cast Iron Pipes/ Fittings (Soil Pipes)	BIC, HEP, NECO, Ajmera
25	RCC Pipes	Indian Hume Pipe Co, Spun Pipe Co., Sementia, CH Patel & Co or Equivalent
26	Stoneware Pipes & Fittings	Dalmia, Parry
27	Cast Iron Pressure Pipes & Fittings	Tisco, BRM, KESORM or Equivalent
28	GI Pipes (ISI marked)	TATA, Zenith, Jindal, Gujarat Steel, ITC
29	GI Fittings (ISI marked)	'R' Brand KS/UNIK
30	Gunmetal Valves & Fittings	Premier/Leader/Zoloto/Sant/or with ISI mark
31	CI Sluice Valves, Check valves	IVC (Calcutta) Kirloskar/ Upadyaya/or with ISI mark
32	CP Brass Sanitary and water supply Fittings	Jaguar/Essess/SOMA/BILMAT/ Dripless or equivalent approved by E-In-C
33	Vitreous China Sanitary ware	Hindustan, EID Parryware/Cera/Neycer
34	WC Seats & Covers	Commander/Diplomat/Admiral
35	Polyethylene/Polypropylene cistern	Everlast/Flushflo/Esyflo/Challener/Champion/Commander, Marvel
36	CI Fixtures	Ashok Iron Works/Bombay Iron Works/A Husainji / Ismaelji or Equivalent approved by E-In-C
37	Stainless Steel Works	SP Fabricators, JINDAL ER Manda & Co or as approved by E-In-C
38	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
39	Plywood Products, Particle Boards & Veneers	Duroply (BWR) Century Plywood, Green Plywood, Kitply, Mysore Boards
40	Adhesive	Pidilite, Araldite
41	Plastic Laminates	Formica, Greenlam, Bakelite HYLAM
42	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
43	Tile Joint Filler	Bal Adhesives & Grouts, "ROFFE" Rainbow Tile Mate, Silicon Sealant of GE Bayer /"Zentrival FM" of MC-Bauchemie (India) Ltd
44	Resin Bonded Glass Wool	Crown Fibre Glass/Rock lloyd or equivalent approved by E-in-C
45	MS Tubes	TATA or equivalent
46	Silicon Sealant	GE Bayer Silicone, SIKA
47	Anchor Fastener	Hilti, Bosch
48	Formwork Release Agent	Fosroc, MBT, MC Baucheme CICO, ADO Conmat
49	EPOXY	FOSROC. SIKA Qualcrete, Aradlite MBT
50	Water proofing System	FOSROC, SIKA

51	Stainless Steel Sinks	Prestige/AMC/Jayna/Kingston/Neelkanth
52	CP Waste, Spreaders for Urinals	Jaguar / Essess
53	Sensor based Auto Flushing System for Urinals	AOS Systems/Angash
54	SFRC Manhole Covers	KK/SK & Precast Concrete
55	UPVC Pipes/Fittings	Supreme/Prince/ Finolex
56	Mirror	Atul / Modifloat/Saint Gobain/Golden Fish
57	ELEVATORS/LIFTS	Otis, Kone, Scheindler

**LIST OF APPROVED MAKES FOR ELECTRICAL, SUBSTATION ITEMS & FIRE
HYDRANT SYSEM**

S. No	Materials	Manufacturers / Agencies
1	H.T.Panel	Crompton/ABB/Alsthom/Siemens/Ashok Leyland
2	Transformer	Crompton/kirloskar/Voltamp/Alsthom/(DRY, Cast Resin) / BHEL/ Universal
3	Bus trunking/Rising mains	(Along with all accessories) L&T /Schneider/GE/Control & Switchgear)
4	LT Panels	GE/BB/L&T/Simens/schneider
5	ACBs	Same as in (4)
6	MCCBs	Same as in (4)
7	MCBs with DBs	Legrand/Hager/Alsthom/Merlin/Gerin/Havells/Standard/Indo-asian
8	Accessories of HT/LT Panels	As per manufacturer's specified make
9	HT/LT UG cables	Cable corporation/Universal/Gloster/Havells/NICO /Polycab
10	Wiring cables	Polycab/Havells/RR Cables/Finolex
11	Switches (SFU)	GE/ABB/L&T/Siemens/Schneider
12	Modular Switches (SFU)	Legrand/Crabtree/Ess Esskay(signature)MK/clipsal/Northwest
13	Piano Type switches and Boxes	Anchor/Leader
14	Cubicle Type Fuse Unit	Siemens /GE/L&T/Siemens/Schneider
15	SFUs/Isolators	Siemens/GE/L&T/ABB/ schnEider
16	Starters / Contractor/Bi metal Relay	Siemens/L&T/ABB

17	Push Button/Indicating Lamps (LED type)	Siemens/L&T/ABB
18	CTs	Kappa
19	Control Fuse Base with HRC fuse	GEC / Alsthom
20	Selector Switch	Salezor
21	Measuring Instruments	AE/IMP/Rishab
22	MS Conduit	Supreme /BEC/NIL /or any Other ISI marked
23	PVC Conduit	Precision/Avon Plast/Clipsal
24	Accessories for PVC Conduit	Precision/Avon Plast
25	Capacitors	Universal / Siemens/L&T / GE
26	Relays	L&T/EE/GE
27	Digital Meters	Enercon/Alacrity/L&T
28	Jointing Kits	Rey Chem/3 Birla
29	Diesel Engine	Kirloskar/Cummins
30	Fire Pumps	Kirloskar/Mather & Platt/Seimens
31	Electrical Motors	Kirloskar / Seimens
32	MS Pipes ('C' Class)	TATA / ZENITH
33	Butterfly Valves	Intervalve / Audco/ Leader
34	BALL VALVE (15-40 mm Dia)	RB/ITAP/Leader
35	Sluice Valves	Kirloskar/Kalpana/UNIK'R' Brand
36	Non-Return Valve-Flap Type Cast Iron	Intervalve/Audco
37	Hydrant Valves	Newage/Minimax/Peter Autokit
38	Hose	Newage Premier Extra /Padmini Aqua Dura
39	Fire Extinguisher	Safex/Minimax/Peter Autokit
40	Pressure Guage	HD/Waree/-GURU/Fiebig//HH-GURU/Fiebig
41	Pressure Switch	Danfoss/Indfoss
42	Termination Lugs	Dowells/Usha
43	PVC insulated Copper Wires	FINOLEX/WINCAP/POLYCAB
44	Cables	Universal/CCI/Gloster
45	SFU's/FSU's	Ee/L&T/C&S
46	HRC Fuses	Havells/Ee
47	Over Load Relays	Ee/L&T
48	Single Phase Preventer	L&T/ Minilac
49	Indicating Lamps & Push Buttons (LED Type)	L&T /Technic

50	Air Break Contractors	Seimens/L&T/ABB
51	Sprinkler Head	HD/Tyco/Reliable/Fireasfe
52	Sprinkler lcv	HD/Tyco/Viking/Reliable/Fireasfe/Wormaccd
53	Gunmetal Branch Pipe	Newage/Minimax/WINCO/Kailash
54	Threaded pipe fittings	R Brand/Unik
55	Air Release Valve	Rb/Tbs/Cimbrio
56	First Aid Hose Reel Drum	Minimax/Newage
57	First Aid Hose pipe	Padmini/Swastik/Usha Fire
58	Suction Strainer	Grandprix /Jaypee/Kirloskar/Leader
59	Battery	Exide/Amco
60	Pipe Protection	Pipe Kote (4mm Thick)
61	Pipe Support	Hi-Tech /Fabricated As per Site Conditions
62	Nozzle	Newage/Winco/Kailash
63	Foot valve (Gunmetal)	Neta/Leader
64	Foot Valve (Cast iron)	Kirloskar

LIST OF APPROVED MAKES FOR ELECTRICAL FITTINGS

S.No.	MATERIALS	PREFERED MAKE
1	Light fitting	Philips/ Wipro / GE
2	Ceiling, wall fans	Crompton / Usha / Almonard
3	MCBs, DBs, Industrial plugs	Legrand / Schneider / Siemens
4	PVC wires (Copper)	RR Kables/ Finolex / Panasonic / Lapp Kabel
5	Cat 6 UTP, telephone, co-axial cable	Finolex / RRKabel / Panasonic / Lapp Kabel / Amp
6	Modular Switches	Legrand-Arteor / MK-Aspect / Panasonic-Vision
7	PVC Conduit & accessories, Casing & capping	Precision / Avon Plast / /Konseal / Balco

8	CCTV Cmera	Capture / Hikvision / CP Plus
9	DVR	Capture / Hikvision / CP Plus
10	Hard disk	WDI / Hitachi
11	LCD Monitor	LG / Panasonic / Samsung
12	Network rack	Netrack / Legrand / D link
13	Access Control System	Siemens / Schneider / Honeywell
14	Projector	Sony / Hitachi / Panasonic
15	Lamps	Philips / Wipro / GE / Osram

BILL OF QUANTITIES

SUMMARY SHEET		
SR. NO.	Heads	Amount (In Rs.)
A.	Civil Works	
1	Earth Works	
2	Concrete work	
3	Reinforced Cement Concrete	
4	Brick Work	
5	Stone Work	
6	Marble and Granite Work	
7	Wood and PVC Work	
8	Steel Work	
9	Flooring	
10	Roofing	
11	Finishing	
12	Sanitary Installations	
13	Water Supply	
14	Drainage	
15	Aluminium Work	
B.	Electrical Works	
16	Electrical Items	
	Grand Total	

A. Civil works

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
2. Earth Works						
1.0	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil.	CuM	66.00		
2.0	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CuM	26.00		
3.0	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	2.26.1	All kinds of soil.	CuM	21.00		
4.0	2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	CuM	5.15		
5.0	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 SqM	20.00		
4. Concrete Works						
6.0	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	2.60		
7.0	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per 50kg cement	860.97		
8.0	4.1.10	P/L brick jelly cement concrete - all works upto plinth level :1:5:10 (1 cement : 5 coarse sand : 10 graded brick jelly 40mm nominal size). In toilet area.	SqM	9.55		
5. Reinforced cement concrete						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
9.0	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	5.33.1	All works upto plinth level	CuM	31.83		
	5.33.2	All works above plinth level upto floor V level	CuM	98.62		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
10.0	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	SqM	37.44		
	5.9.2	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	SqM	242.00		
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	SqM	115.31		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	5.9.5	Lintel beams, Plinth beams, girders, bressumers and cantilevers.	SqM	246.42		
	5.9.6	Columns, pillars, piers, abutments, posts, and struts.	SqM	256.20		
	5.9.7	Stairs, (excluding landings) except spiral-staircases	SqM	39.57		
	5.9.19	Weather shade, Chajjas, corbels etc., including edges	SqM	4.68		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
11.0	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	5.22.6	Thermo-Mechanically Treated bars	Kg	2505.00		
12.0	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22A.6	Thermo-Mechanically Treated bars	Kg	1238.00		
13.0	5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	SqM	905.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
14.0	5.34	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.				
	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	CuM	32.60		
15.0	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintel	43.05		
6. Brick Work						
16.0	6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at very third course of masonry work.	CuM	112.68		
7. Stone Work						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
17.0	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	CuM	8.83		
8. Marble and Granite Work						
18.0	8.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	SqM	68.25		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
19.0	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite of any colour and shade				
	8.2.2.2	Area of slab over 0.50 SqM	SqM	2.12		
20.0	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	2.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
21.0	8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SqM	15.77		
22.0	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Metre	2.82		
23.0	8.9	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.				
	8.9.1	8mm thick				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	8.9.1.2	Granite of any colour and shade	SqM	121.34		
24.0	8.7	P/F cramps in RCC/ CC backing with cement mortar 1:2 .				
	8.7.2	Stainless steel cramps	Kg	173.62		
25.0	8.11	P/F Machine cut Mirror/edge polished.18 mm thick granite stone slab, Perlato (slab area up to 0.5 sqm). Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	SqM	40.26		
Wood and PVC Work						
26.0	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	9.1.1	Second class Teak wood	CuM	0.27		
27.0	9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)				
	9.22.1	On one side only	SqM	14.80		
28.0	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	SqM	17.01		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
29.0	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	116.90		
30.0	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Each	48.00		
31.0	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	9.96.1	300x16mm	Each	1.00		
	9.96.2	250x16 mm	Each	7.00		
32.0	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	9.97.2	250x10 mm	Each	16.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	9.97.4	150x10mm	Each	32.00		
	9.97.5	100x10mm	Each	16.00		
33.0	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	9.100.2	100mm	Each	32.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
34.0	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
	9.101.1	Single rubber stopper	Each	8.00		
35.0	9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	Each	26.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
36.0	9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge				
	9.117.1	Extruded section profile size 48x40 mm	Metre	22.20		
37.0	9.118	Providing and fixing to existing door frames.				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	9.118.1	<p>24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).</p>	SqM	6.45		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
38.0	9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	Kg	2296.25		
39.0	9.158	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.				
	9.158.1	12 mm thick.	SqM	137.50		
10. Steel Work						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
40.0	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
	10.16.2	Hot finished seamless type tubes	Kg	3643.93		
41.0	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	314.00		
11. Flooring						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
42.0	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.				
	11.41.1	Size of Tile 500x500 mm	SqM	24.27		
	11.41.4	Size of Tile 1000x1000 mm	SqM	113.59		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
43.0	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	SqM	30.24		
44.0	11.24	Extra for pre finished nosing to treads of steps of marble stone.	Metre	76.86		
45.0	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	11.26.1	25mm thick	SqM	38.45		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
46.0	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting etc. laid on 12 mm (average) thick cement mortar 1:3.	SqM	7.17		
47.0	11.54	Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of : a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug. b) S tringers system in all steel construction hot dipped				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
		<p>galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitiouscore mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm.The</p>				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
		panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. Allspecification must be printed on the side of the panel to ensure the quality of the product.				
	11.54.2	450 mm Finished Floor Height (FFH).	SqM	15.37		
12. Roofing						
48.0	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes.				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	12.41.2	110 mm diameter.	Metre	38.00		
49.0	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.1	Coupler				
	12.42.1.2	110 mm	Each	8.00		
50.0	12.42.3	Single tee with door				
	12.42.3.2	110x110x110 mm	Each	8.00		
51.0	12.42.5	Bend 87.5 deg				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	12.42.5.2	110mm bend	Each	4.00		
52.0	12.42.6	Shoe (plain)				
	12.42.6.2	110mm shoe	Each	4.00		
53.0	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	12.43.2	110 mm	Each	50.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	12.43.1	75 mm	Each	12.00		
54.0	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	4.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
55.0	12.45	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board	SqM	137.86		
56.0	MR	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. including Puf(40 kg/cum) and bottom sheet aluminium foil / PPGI - including fibre glass panels of 3.9 kq/m2 as per IS 813, 50/100 mm thk, with a vapor barrier (foil scrim kraft / reinforced white vinyl / reinforced white metalized film scrim kraft facing) Density shall be no less than 16 Kg/m3. Roof puff panel	SqM	301.85		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
57.0	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
	12.51.1	Ridges plain (500 - 600mm)	Metre	20.80		
	12.51.2	Flashings/ Aprons.(Upto 600 mm)	Metre	20.80		
	12.51.6	Gutter .(600 mm over all girth)	Metre	41.60		
13. Finishing						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
58.0	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1:6 (1 cement: 6 fine sand)	SqM	557.00		
59.0	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	SqM	198.75		
59.0	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :				
	13.33.2	Raised and cut poiting	SqM	15.39		
60.0	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	SqM	484.00		
61.0	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand and manufacture	SqM	166.97		
	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	SqM	190.01		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	SqM	602.80		
17. Sanitary Installations						
62.0	17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	Each	4.00		
63.0	17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	Each	3.00		
64.0	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	4.00		
65.0	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
	17.10.2.1	610x510 mm bowl depth 200 mm	Each	1.00		
66.0	M.R	Providing and fixing PVC Soil, waste and vent pipe to IS: 13592 of SWR quality 4kg/sq.cm pressure rated upto 110mm dia and 6kg/sq.cm pressure rated agriculture series above 100mm, including all fittings, like EG: Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring/ solvent cement by application of leak proof adhesive like FRP including cutting holes in walls and floors and				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
		making good				
		75mm	Each	45.00		
		100mm	Each	50.60		
67.0	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
	17.28.2.1	32mm dia	Each	4.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	17.28.2.2	40mm dia	Each	1.00		
68.0	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.2	Rectangular shape 453x357 mm	Each	2.00		
	17.32.4	Rectangular shape 1500x450 mm	Each	1.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
69.0	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	4.00		
70.0	17.34	Providing and fixing toilet paper holder.				
	17.34.1	C.P. brass	Each	4.00		
71.0	M.R	Providing and fixing PVC 'P' or 'S' floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors. 100x100mm	Each	5.00		
72.0	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Metre	3.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
73.0	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	Each	4.00		
74.0	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
	17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	Each	4.00		
75.0	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
	17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	4.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	1.00		
76.0	17.80	Providing and fixing white vitreous china battery based infrared sensoroperated urinal of approx. size 610 x 390 x 370 mm having pre & postflushing with water (250 ml & 500 ml consumption), having water inletfrom back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge	Each	4.00		
18. Water Supply						
77.0	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	18.7.3	25 mm nominal outer dia Pipes	Metre	35.37		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	18.7.5	40 mm nominal outer dia Pipes	Metre	15.00		
78.0	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
	18.8.1	15 mm nominal outer dia Pipes	Metre	22.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	18.8.2	20 mm nominal outer dia Pipes	Metre	299.30		
79.0	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.				
	18.9.5	40 mm nominal outer dia Pipes	Metre	25.00		
80.0	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	18.17.1	25 mm nominal bore	Each	1.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	18.17.3	40 mm nominal bore	Each	1.00		
81.0	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
	18.19.3	40 mm nominal bore				
	18.19.3.2	Vertical	Each	1.00		
82.0	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.21.2	45 cm length				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	18.21.2.1	15 mm nominal bore	Each	8.00		
83.0	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
	18.49.1	15mm nominal bore	Each	4.00		
84.0	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	Each	1.00		
85.0	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	18.52.1	15 mm nominal bore	Each	4.00		
86.0	18.76	Cutting holes up to 30x30 cm in walls including making good the same:				
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	Each	8.00		
87.0	18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	Metre	22.00		
88.0	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	2000.00		
19. Drainage						

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
89.0	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:				
	19.1.2	150 mm diameter	Metre	10.00		
90.0	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
	19.2.2	150 mm diameter S.W. pipe	Metre	10.00		
91.0	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.4.2	150 x 100 mm size P type				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00		
92.0	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00		
21. Aluminium Works						
93.0	21.1	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	287.30		
94.0	21.1.2	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	366.12		
95.0	21.2	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 aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
	21.2.2	Pre-laminated particle board with decorative lamination on both sides	SqM	2.40		
96.0	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness	SqM	26.88		
	21.3.2	With float glass panes of 5.50 mm thickness	SqM	20.79		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
97.0	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing 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.				
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	2.00		
98.0	21.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.				
	21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar	Each	4.00		

SI. NO.	DSR-2014 Item no.	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs. in figures & in words)	AMOUNT (Rs.)
99.0	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	2.00		
		Total Civil works (Rs.)				

2. ELECTRICAL WORKS

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
1	1	WIRING				
1a	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
1b	1.10.1	Group A	5.00	Point		
1c	1.10.2	Group B	69.00	Point		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
1d	1.10.3	Group B	5.00	Point		
2	1.11	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	3.00	Point		
3	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required				
3a	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	593.10	Metre		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
3b	1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	284.50	Metre		
3c	1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	177.00	Metre		
3d	1.14.10	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	25.00	Metre		
3e	1.14.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire	35.00	Metre		
4	1.18	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
		recessed steel/ PVC conduit as required.				
4f	1.18.2	2 Pair	50.00	Metre		
5	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	50.00	Metre		
6	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
6a	1.21.1	20 mm	50.00	Metre		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
6b	1.21.2	25 mm	50.00	Metre		
7	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
7a	1.24.6	Telephone socket outlet	2.00	Each		
7b	1.24.7	TV antenna socket outlet	2.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
8	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	4.00	Each		
9	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	22.00	Each		
10	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	13.00	Each		
11	1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	4.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
12	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
12a	1.50.1	Upto 450 mm sweep	5.00	Each		
	2	MCCB, MCB & DB'S				
13	2.2	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
13a	2.2.1	100 Amp, 16 KA, TPMCCB	1.00	Each		
14	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
		Painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
14a	2.4.5	6 way (4 + 18), Double door	3.00	Each		
14b	2.4.6	8 way (4 + 24), Double door	1.00	Each		
14c	2.6	Supplying and fixing following ways surface/recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
14d	2.9.5	4 Way TP	3.00	Each		
15	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
15a	2.10.1	Single pole	60.00	Each		
16	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	15.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
17	2.13	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
17a	2.13.1	40 amps	1.00	Each		
17b	2.13.2	63 amps	3.00	Each		
18	2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
18a	2.15.2	40 amps	1.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
18b	2.15.3	63 amps	3.00	Each		
19	2.16	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	5.00	each		
20	2.17	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	5.00	each		
21	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
22	2.20	Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5.00	Each		
	5	E A R T H I N G				
23	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2.00	Each		
24	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	100.00	Metre		
	6	LIGHTNING CONDUCTOR				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
25	6.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	2.00	Each		
26	6.3	Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.	2.00	Each		
27	6.4	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	5.00	Each		
28	6.5	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	100.00	Metre		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
29	6.6	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	50.00	Metre		
30	6.11	Providing and fixing testing joint, made of 20 mm X 3 mm thick copper strip, 125 mm long, with 4 nos. of tinned brass bolts, nuts, chuck nuts and spring washers etc. complete as required.	5.00	Each		
31	6.12	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	60.00	Each		
32	6.13	Providing and laying copper tape 32 mm X 6 mm from earth electrode directly in ground as required.	15.00	Metre		
SUB TOTAL (DSR ITEMS)						

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
		LMR ITEMS				
33		Supplying and fixing TP sheet steel enclosure on surface/ recess along with 63 amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	6.00	each		
34		Supply & drawing Cat 6E cable in the existing surface / recessed steel / PVC conduit including connection to outlet as required.	100.00	mts		
35		Supplying and fixing modular RJ 45 computer socket along with modular plate & switch box including connections but excluding modular plate etc. as required.	2.00	Each		
		LIGHT FITTING & FANS				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
36		Supply and fixing of square type 18W LED slim edge luminaire suitable for false ceiling complete with separate electronic driver with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (DIAS LIGHT)	2.00	Each		
37		Supply and fixing of round type 25W LED 6000K Recess mounted pressure die-cast aluminium luminaire in powder coated white finish in round profile with optimized heat sink for efficient heat dissipation and separate replaceable electronic driver with ceiling cutout of 200mm height 85mm including of all accessories complete.	49.00	Each		
38		Supply and fixing of 40W LED Ultra modern extruded aluminium surface/suspended 40W LED luminaire along with suspension kit & integral electronic driver including of all accessories complete.	6.00	Each		
39		Supply and fixing of 1200 mm sweep min three star rated ceiling fan complete with motor, double ball bearing, blades, canopy, 30 cm down rod and without speed regulator suitable for 230 V 50 HZ, AC supply confirms to IS 374/1979 as required complete.	4.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
40		Supply and fixing of 450 mm sweep, metal blades with safety guard suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor and all accessories as required complete.	5.00	Each		
SMOKE DETECTION & FIRE ALARM SYSTEM (ADDRESSABLE)						
41	MR	Supply, Installation & Testing of GE / Morley make addressable Photoelectric type Smoke detector for below/above false ceiling with base plate.	8.00	Nos		
42	MR	Supply, Installation & Testing of GE / Morley make addressable photoelectric type Heat detector with base plate	8.00	Nos		
43	MR	Supply, Installation & Testing of Response Indicator	2.00	Nos		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
44	MR	Supply, Installation & Testing of Addressable typr Electronic Hooter complete with line matching transformer & connected to the main control panel amplifier to produce alter / evacuation tone for public	1.00	Nos		
45	MR	Supply, Installation & Testing of of Addressable type Manual Call Point with a glass cover marked " IN CASE OF FIRE BREAK GLASS"	6.00	Nos		
46	MR	Supply, Installation, Testing & commissioning of Fault Isolator module	1.00	Nos		
47	MR	Supply of Cable (2cx 1.5 Sq mm cu Ar Cable) (Red colour only) with necessary accessories and hardware etc.	100.00	Rmt		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
48	1.11 MVCB SUR25	Laying of Cable (2cx 1.5 Sq mm cu Ar Cable) on surface with necessary accessories and hardware etc. as required	100.00	Rmt		
49	MR	Supply, Installation, Testing & commissioning of Two Loop non - expandable addressable type Fire Alarm Panel with Battery backup with capacity for 25 addressable devices including event logging facility, interface feature & including all necessary hardware & accessories, etc. complete as required. (GE / Morley)	1.00	Nos		
		LIFT				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
50		Supply, installation, testing & commissioning of electric traction type elevator of following capacity and type suitable for operation on 415 V, 3 phase, 50 Hz AC supply, having AC variable voltage and variable frequency type traction control, with machine room, speed of 0.7 Mtr/sec, electromagnetic brake system, simple operations, operating control panel with luminous buttons, overload warning indicator, battery operated alarm bell, LED type emergency light, intercom suitable for hook up to EPABX, infrared ray sensing door protection for full height, reverse phase relay on controller, fireman's switch at ground floor, digital car positions indicator in car and at all positions indicator in car and at all floors with Up/DOWN direction, all signal fixtures in stainless steel faceplates, light fixtures, ventilation fan, etc complete with all accessories including automatic rescue device in the event of power failure etc., as required.				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
		The traction motor placed directly above the hoistway in Machine Room and elevator shall be of geared type/gearless with travel height of 12.mtrs. complete as per technical specification, simplex full collective operation with/without attendant. Car/Hoistway Entrance, protected by stainless steel hairline doors and clear side(telescopic) opening min 1200mm x 2000mm height. Complete with necessary scaffolding, electrical panel, logic control panel and shaft lighting etc required for the erection of the elevators				
		8 passengers (Minimum) elevator, 3 stops & 3 openings with suitable car size of Height Inside dimensions and entrance at front side on all the serving floors, provided with matt finish stainless steel panel on all four side, stainless steel mirror finish ceiling, stainless steel hand rail on three sides complete as per specifications.	1.00	each		
		CENTRALISED UPS SYSTEM (POWER BACK UP SYSTEM)				
51	MR	Supply, Installation, Testing & Comissioning of 10 KVA Online UPS (3 i/p – 1 o/p) including :-				
		Double Conversion Technology with Static Bypass For 30 minute backup to the stated load complete with all necessary hardware & accessories, etc. complete as required.				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
		Required number of SMF Battery - 12 V for Battery backup upto 30 minutes With Battery Rack and Cables along with necessary hardware & accessories, etc. complete as required.				
		Network management card (OC WAP Card) for the UPS to connect to the server. (If required.)				
		Delivery & Installation charges - Inclusive				
		Full set as above	1.00	Set		
		Total - CENTRALISED UPS SYSTEM (POWER BACK UP SYSTEM)				
		AIR CONDITIONIG SYSTEM				

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
52		Supply of Air Cooled High Wall mounted Split Air Conditioner of following capacities consisting of high wall mounted type room unit (fan coil) with cordless remote control, outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, upto 4 m distance refrigerant copper piping with 13mm nitrile rubber insulation, comprising of 1" dia drain PVC pipe with insulation 5m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit 4m distance, outdoor unit MS stand, suitable stabilizer etc complete as required. Approved makes, AC :- Carrier/Voltas/Bluestar/Panasonic Approved makes - Stabilizer :- V Guard/Everest/Voltas				
		2TR minimum 3 star rated as per BEE	5.00	No		
53		Installation, testing and commissioning of the above machines including fixing the outdoor unit on a raised platform/MS Stand as per manufacturers recommendation and fixing of room (fan coil) unit on wall, providing and making interconnection between room & condenser as per site conditions with first charge refrigerant gas.	5.00	No		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
54		Supply, installation, testing and commissioning of suitable hard drawn copper refrigerant piping additional length for 2 TR machines with 13 mm nitrile rubber insulation & suitable size electrical cabling interconnecting the condensing unit to evaporating unit for split units as per site condition. Approved makes :- Totaline/Piyush/Mandev	50.00	RM		
55		Supply & fixing of PVC drain pipe additional length of 25mm dia ISI marked, connecting the drain lines from the indoor units to floor sump, with 9mm nitrile rubber insulation as per specification	50.00	RM		
		Approved makes :- Any ISI marked				
		PA SYSTEM				
56		Supplying and providing of Dual Channel Direct Coupled Amplifier. 2500 Watts rated output Rugged and most reliable and sonically superior high power amplifier. Class H operation for optimum efficiency suitable for operation of 230V, 50HZ operation and proviciency of 4 mics, 10 speakers, USB. Bluetooth etc complete	1.00	Each		

S.No.	Item Code	Description	Quantity	Unit	Rate (Rs. in figures & in words)	Amount (Rs.)
57		Supplying and proving of Cord less MIC suitable for 2500watts amplifier as mentioned in the serial no 56 etc complete.	2.00	Each		
58		Supplying and proving of MIC suitable for 2500watts amplifier as mentioned in the serial no 56 etc complete.	2.00	Each		
58		Supplying and proving of Collar MIC suitable for 2500watts amplifier as mentioned in the serial no 56 etc complete.	2.00	Each		
58		Supplying and proving of Speakers of 400W and its wiring from Amplifier mentioned in S.No 56 etc complete.	8.00	Each		
		SUB TOTAL				
		Grand Total				