

***TENDER***

***FOR***

***CONSTRUCTION OF NEW BLOOD BAG  
MANUFACTURING FACILITY AT KONNI,  
PATHANAMTHITTA FOR HLL LIFECARE LIMITED***

**PART-IV  
PRICE BID**

**TENDER NO. HITES/IDS/15/11/KONNI-BB  
JANUARY 2016**



**M/S HLL INFRA TECH SERVICES LTD. (HITES)  
(SUBSIDIARY OF HLL LIFECARE LTD, A GOVERNMENT OF INDIA ENTERPRISE)  
ADARSH, TC 6/1718, VETTAMUKKU, THIRUMALA P.O.  
THIRUVANANTHAPURAM – 695006  
PHONE: 0471-2365873/ 72  
FAX: 0471-2368144**

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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 New blood bag manufacturing facility at Konni, Pathanamthitta for HLL Lifecare Limited.**

1.0.3 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.

1.0.4 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**

1.11 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.

### **1.5 SUBMISSION OF BILL**

1.5.1 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 and the said measurement sheets shall be submitted by him with the relevant bill.

### **1.6 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.

1.6.1 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.

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

## **1.7 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.

1.7.1. 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.

1.7.2. 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.

1.7.3. 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**

### **2.1.   EXECUTION WORK**

- 2.1.1. 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.

### **2.3. OTHER CONDITIONS**

- 2.3.1 The contractor has to do all liasoning works and obtain statutory approval from Electricity board, Electrical inspectorate and any another body if required for the successful energisation of electrical supply. No charges will be paid to the contractor in this regard. However, statutory fees if any will be paid by HLL. All necessary drawings and documents required for the same has to be prepared and submitted by the contractor with the concurrence and approval of the Engineer- in-charge.

### **3. SPECIFICATIONS - ELECTRICAL**

The estimate for electrical work is prepared according to the CPWD schedule of rates (Electrical) 2014 as far as possible. Rates for items such as lamp fittings, fans, armoured cables, etc. which are not available in CPWD schedule of rates, Local Market Rates are considered.

#### **Point wiring:**

Point Wiring shall be in PVC/ with MODULAR type Switch 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 PVC conduit with MODULAR switch, suitable GI box and earthing the points with 1.5 sq mm FR PVC insulated copper conductor single core cable.

#### **Light fittings:**

LED tube fitting Surface mounted Indoor Industrial Tube with TLED lamps, driver with LED tube 1200mm of Philips, Wipro or Crompton.

Surface mounted Endura LED Bulkhead WT 202W LED of Philips/Equi. + LED Non Dimmable 5W B22.

Surface mounted High bay green BY400V LED72S CW of Philips/Equi with lamp

Supply of Recess down lighter DN194B LED15S of Philips/Equi. with lamp

Decorative compact out door building light luminaire, Green line BRP409LED CW of Philips or equivalent with LED lamp

Outdoor- Liara, inverted pyramid tripod type LED bollard with soft 360 light, IP-65 protection, corrosion resistant cat No. LBLS1-10-CDL of Crompton or equivalent Philips/Wipro for compound wall

#### **Street Light – Galvanized Octagonal Poles:**

The poles shall be designed to withstand the maximum wind speed of 180km/hr. The top loading ie, the weight and the area of top luminaries are to be considered to calculate maximum deflection of the pole and the same shall meet the requirement of BS: 5649 part VI 1982. For the design of octagonal poles the structural calculation details confirming the suitability as per standards shall be produced by the supplier.

The pole shafts have octagonal cross section and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding. The welding of pole shaft shall be done by submerged arc welding (SAW) process.

The octagonal pole shafts shall be provided with the rigid flange plate of suitable thickness with provision for fixing 4 foundation bolts. This base plate shall be fillet welded to the pole shaft at two locations i.e. from the inside and outside. The welding shall be done as per the qualified MMAW process approved by third party inspection agency.

The pole shall have door of approximate 500 mm length at the elevation of 500mm from the base plate. The door shall be vandal resistance and shall be weather proof to ensure safety of inside connections. The door shall be flush with the exterior surface and shall have suitable locking arrangement for the purpose of earthing.

The pole shall be adequately strengthened at the location of the door to compensate for the loss in section.

Octagonal poles material shall be conforming to Gr.S355JO as per BSEN 1025 with:

Yield strength = 355 N/ Sq: mm

Tensile strength = 490-630 N/Sq: mm

Base plate = Fe 410 conforming to IS 226/IS2062

Foundation bolts: 6.8 Gr as per IS1367

Test certificates from the steel manufacturer for the above shall be produced by the supplier

The welding shall be carried out conforming to approved procedures duly qualified by third party inspection agency. The welders shall also be qualified for welding the octagonal pole shafts

The octagonal poles up to the length of 9 meters shall be in single piece with single longitudinal welding point. There shall not be any circumference weld joint.

The poles shall be hot dip galvanized as per the IS2629 IS2633/IS4759 standards with average coating thickness of 65 micron. The galvanizing shall be done in single dipping. Galvanizing test reports as per standards shall be produced by the manufacturer of poles. The supplier shall show the average galvanizing coating thickness of 65 microns on the



poles during supply before the erection. The octagonal pole manufacturing & galvanizing plant shall have ISO 9001 & ISO 14001 certification.

All poles shall be bolted on a precast foundation with a set of four foundation bolts for greater rigidity. The test certificate for foundation bolts shall be produced by the supplier. Galvanized fixture mounting bracket shall be supplied along with the poles for installation of 1 No (for single sided arrangement) suitable for mounting street light fixture as per specification, 2 nos for double arm and 4 nos for four arm.

**Ceiling/Wall/Pedestal/Exhaust Fans:**

Ceiling fan 1050/1200 mm sweep double ball bearing of approved colour and quality with original down rod, canopy, and suspension shackle and stepped type electronic fan regulator. Wall fan 400 mm sweep and exhaust fan 250/450 mm sweep are proposed where ever necessary. Also supply of Turbo force Industrial type, Pedestal Air circulators 600mm sweep, with metallic blades of Almonard/Crompton.

**Wiring:**

Wiring for circuit sub main and for light/ power plug along with earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable are proposed.

2x1.5 sq mm + 1x1.5 sq mm  
2x2.5 sq mm + 1x2.5 sq mm  
2x4 sq mm + 1 x 4 sq mm  
4x4 sq mm + 2x 4 sq mm  
4x6 sq mm + 2x 6 sq mm

Aluminum cables of appropriate size with suitable Cable Glands and end terminations are also proposed for tapping power supply.

**Power sockets:**

Power sockets with suitable size GI Modular type box, in surface/ recess with 5/6 A sockets, 15/16 A with control switches and supplying and fixing 20/30 amps, 240/415 volts, SPN/TPN industrial type, socket outlet are proposed where ever necessary.

**MCB DB:**

TP/SP sheet steel MCB distribution board double door of appropriate ways are proposed with required rating MCB, Isolator and RCCB.

**Earthing:**

Earthing with GI earth plate 600x600x6 mm thick including accessories are proposed. Copper earth wire No 8 and 25X3mm Copper & 20x3mm GI strip is proposed for connecting MCB DB, lightning Protection and earth electrode.

**Extra Low Voltage (ELV):**

Supply of UTP 4 pair CAT -6A LAN cable , 2,4,20&50 pair 0.5 sq. mm FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in existing surface/ recessed PVC conduit as required is considered, AMP/Molex make for data

### **LIST OF APPROVED MAKES FOR CIVIL WORKS**

<b>S. No</b>	<b>Materials</b>	<b>Manufacturers / Agencies</b>
1	Ready mixed Concrete	L&T/RMC/RAMCO/ACC/Birla/Ultratech/POABS
2	Ordinary Portland Cement (Minimum 43 Grade)	ACC/UltraTech/India Cement/ Birla/Ramco
3	Reinforcement (Each LOT shall accompany manufacturer's Test Certificate)	SAIL/ TISCO( TATA)/ RINL/ VSP/ JINDAL
4	Stainless Steel	Salem Steel or as approved by Engineer in charge
5	Structural Steel	Conforming to BIS 2062 and approval of source by Engineer (TISCO/SAIL/VSP/JINDAL)
6	White Cement	JK Cement/ Birla White/Asian
7	Sand	Sand / M Sand ( Crushed aggregate) to comply with CPWD spec / relevent IS code spec.
8	Bricks, Stones slabs, Lime, Neeru Stone aggregate	Material / Sample to be got approved before use
9	Vitrified Tiles	Johnson,Nitco,Kajaria,RAK
10	Ceramic / Glazed Floor Tiles	Nitco, Johnson,Kajaria, Somany
11	Cement concrete tiles	Unistone, Eurocon
12	Aluminium Fittings	Everite, Garnish,Crown Classic
13	Hydraulic floor Spring	Dorma
14	Aluminium Extruded Sections	Jindal/ NALCO/Hindalco/ Indalco
15	Aluminium Doors/Windows	As approved by E-IN-C
16	Paints/ Synthetic enamel Paint/Distempers/ Acrylic emulsion/Cement primer/Deluxe multi surface paint	Asian, Nerolac, Berger
17	Glazing (high performance glass for DGU and SGU)	Saint Gobain / Asahi / Pilkington
18	Glass	Saint Gobain / Asahi / Modiguard
19	ACP	Alucobond/Alcopla
20	Paver Block	As approved by Engineer In Charge
21	Water proofing Works	FOSROC/ SIKA / Pidilite / CICO/Penetron / Polyplus

22	Hydraulic Door Closers	Hardwyn, Everite, Garnish
23	Water Proofing Cement Paint	Snowcem India/ ICI/ Nerolac/ Berger/ asian
24	Super plasticizer	CICO, Roff / Pidilite
25	False Ceiling (a) Gypsum	Armstrong / AMF Armstrong/Hunter Douglass
26	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
27	Adhesive	Pidilite, Araldite,Cico
28	Plastic Laminates	Formica, Greenlam, Bakelite HYLAM
29	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
30	Tile Joint Filler	Bal Adhesives &Grouts,"ROFFE" Rainbow Tile Mate, Silicon Sealnet of GE Bayer Silicon/"Zentrival FM" of MC-Bauchemie (India) P Ltd
31	PVC Doors	Sintex/ Polyex/ Rajshri
32	Anti – Termite Treatment	It should be done by permanent members of IPCA as approved by Engineer-in-Charge.
33	Vacuum Dewatered Flooring	Tremix / Sun Build / Avcon technics
34	Resin Bonded Glass Wool	Crown Fibre Glass/Rock lloyd
35	Fire rated Doors & Frames	Shakti-Hormann / Promat
36	MS Tubes	TATA / Lloyd/NSL
37	Silicon Sealant	Dow Corning
38	Anchor Fastener	Hilti, Bosch
39	Formwork Release Agent	Fosroc, MBT, MC Bauchemie CICO, ADO Conmat
40	GI Pipes (ISI marked)	TATA, Zenith, Jindal, Gujarat Steel, ITC
41	GI Fittings (ISI marked)	'R' Brand KS/UNIK
42	PVC FITTINGS	Supreme / Finolex/ Prince
43	CP Brass Sanitary and water supply Fittings	Jaguar (Florentine)
44	CI Fixtures	Ashok Iron Works/Bombay Iron Works/A Husainji / Ismaelji
45	Plywood Products, Parcticle Boards & Veneers	Duroply (Green Marked, BWR Century Plywood, Green Plywood Kitply, Mysore Boards
46	Water proofing System	SIKA/Pidilite/Fosroc/ BASF
47	Night Latch	Godrej /Harrison / Link
48	SFRC Manhole Covers	KK/SK & Precast Concrete

49	SS Sink	Nirali, Hindware, Franke
50	Mirror	Modifloat/Saint Gobain
<b>ELECTRICAL L T &amp; ELV Works</b>		
1	XLPE/PVC LT CABLES	Universal, Gloster, Torrent, RPG
2	CABLE GLANDS & LUGS	Comet, Dowells, Hex, Jainson
3	Cable Tray	Jindal/Profab/Indiana
4	MOULDED CASE CIRCUIT BREAKER	Siemens, L&T, Schneider, ABB
5	PVC CONDUITS AND ACCESSORIES	Avon Plast, Balco, Precision
6	FRLS-PVC WIRES - (COPPER)	Finolex, RR Cables, Lapp Kable.
7	MODULAR SWITCHES & SOCKETS	Legrand (Arteor), MK (Blenze), Anchor (Woods)
8	SDFU, Isolators	L&T/Siemens/Schneider.
9	INDUSTRIAL PLUG & SOCKET	Legrand, Indoasian, Havells
10	MCB DISTRIBUTION BOARDS	Legrand, Havells, Indoasian (Gold plus)
11	MCB's, RCCB, ISOLATORS	Legrand, Indoasian, Havells
12	TELEPHONE, Co-Axial cables	Delton, Finolex, Lapp Kable
13	LIGHT FIXTURES	Wipro, Philips, Crompton
14	LED / CFL Lamps	Philips/Osram/Crompton.
15	CEILING, EXHAUST, WALL FAN/Pedestal fan	Crompton/Bajaj,
16	NET WORK CABLE Cat 6-A UTP	AMP/Systimax/Panduit
17	Net Work Socket	AMP/Systimax/Panduit
18	GI Pipe	Tata, Jindal
19	STREET LIGHT POLE	Crompton, Bajaj, Wipro, Philips
20	LIGHTNING ARRESTOR (Advanced)	INDELEC / INGESCO / NIMBUS
21	IP-65 PLUG & SOCKETS ,Enclosures	MERLIN GERIN / LEGRAND / HENSEL
22	U-PVC Trunking Type Cable Management System	Legrand/MK/Anchor

## **BILL OF QUANTITIES**

**(ALL ROWS SHALL BE FILLED, THIS IS MANDATORY  
(IF NIL OR NA, THAT MAY ALSO BE SHOWN)**

### **Abstract**

<b>Sl No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>
1	Civil works	
2	Plumbing works	
3	Construction of Compound wall	
4	Retaining wall	
5	Road work	
	<b>Total</b>	
	Service tax component to be paid by the bidder	
	Service tax component to be directly paid by the HLL in case the bidder is a Proprietary firm	
	<b>GRAND TOTAL [INCLUDING 100% SERVICE TAX (a +b)]</b>	

Signature of the Bidder with date

**CIVIL WORKS (PART - A )**

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	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 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	19000.0			
2	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m 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.:All kinds of soil	Cum	5093.00			
3	2.7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	2.7.3	<b>Hard Rock - Protective Blasting</b>	Cum	1300.00			
b	2.7.1	<b>Ordinary Rock</b>	Cum	3500.00			
4	2.26.2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.- Ordinary/Hard Rock	Cum	810.00			
5	MR	Anchoring the columns into hard rock by drilling 25mm dia rods of bore depth 40mm to a depth of 1m including the cost of all material, labour complete as per the specification and as directed by the engineer in charge	Each	384.00			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
6	2.1	Excavating trenches of required width for pipes,cables depth upto 1.5 m: All kinds of soil					
	2.10. 1.2	Pipes, Cables etc exceeding 80 mm dia but not exceeding 300 mm dia	M	400			
7	2.25	Filling available excavated earth (Including 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 50m and lift up to 1.5m.	Cum	4500.00			
8	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works up to plinth level.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	30.00			
b	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	Cum	900.00			
c	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	10.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
9	4.1.10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to floor V level :1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	39.60			
10	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	385.52			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
11	5.37	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work,using cement content as per approved design mix, manufactured in fully automatic batching plant andtransported to site of work in transit mixer for all leads, having continuous agitated mixer, manufacturedas per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C.from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcementincluding cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard settingof concrete, improve workability without impairing strength and durability as per direction of the Engineer- in - charge.Note:- Cement content considered in this item is @ 330 kg/ cum. Excess/ less cement usedas per design mix is payable/ recoverable separately					
		Extra for proving richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	5.37.1	All work up to plinth level. (M25)	Cum	1785.00			
b	5.37.2	All work above plinth level up to floor V level (M25)	Cum	3200.00			
12	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.					
		for M25	Quin tal	2493.00			
13	5.9	Centering and shuttering including strutting, propping etc., and removal of form for,					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	5.9.1	Foundations, Footings, bases of columns,etc for mass concrete.	Sqm	1350.00			
b	5.9.2	Walls any thickness including attached pilasters butteresses,Plinth and string courses etc.	Sqm	3900.00			
c	5.9.3	Suspended floors,roofs,landings,Balconies and access platform	Sqm	8690.98			
d	5.9.5	Lintel,beams,plinth beams,girders,bressumers and cantilevers	Sqm	7000.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
e	5.9.6	Columns and Pillars, Piers, Abutments, Posts and Struts.	Sqm	2600.00			
f	5.9.7	Stairs(excluding landings) except spiral-staircases.	Sqm	330.00			
g	5.9.19	Weather shade, chajjas, corbels etc. including edges	Sqm	81.68			
14	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentring at all levels, over a height of 3.5m, for every additional height of 1 meter or part thereof (plan area to be measured)					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	5.11.1	Suspended floors,roofs,landing,beams and balconies (Plan area to be measured)	Sqm	8949.00			
15	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete					
	5.22.6	Thermo – Mechanically Treated Bars	Kgs	671273.7			
16	6.1.	Brick work with common burnt clay F.P.S.( non modular ) bricks of class designation 7.5 in foundation and plinth in:					
	6.1.2 & 2602 & 2603	Cement mortar 1:6 (1 cement :6 coarse sand)	Cum	9.01			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
17	6.4	Brick work with F.P.S bricks of class designation 7.5 in superstructure above plinth level up to floor v level in all shapes and sizes in:					
	6.4.2 &26 02 &26 03	Cement mortar 1: 6 (1 cement :6 coarse sand)	Cum	10.00			
18	6.13	Half brick masonry with F.P.S brick of class designation 7.5 in superstructure above plinth level up to floor V level					
	6.13.1 &26 02 &26 03	CM 1:3 (1 cement : 3 coarse sand)	Sqm	694.28			
19	6.15	Extra for providing and placing in position 2 Nos. 6mm dia M.S bars at every third course of half brick masonry (with FPS brick)	Sqm	694.28			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
20	4.7.2	Providing and fixing up to floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Cum	1296.91			
21	7.1	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with:					
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	10.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
22	MR	Providing and fixing of Hollow metal fire rated doors as per IS 3614 part-1 & part-2 for stability and integrity. Pressed Galvanized steel confirming to IS 277 with the following specification. Recommended fire door shall have doors tested at CBRI or ARAI for maximum rating of 2hrs with vision panel. Test certificates should be available for vision lites /panels as part of the fire door assembly. Independent glass test certificates will not be accepted. Manufacturer test certificate shall cover doors both single and double leaf and all doors supplied should be within the tested specimen, deviation in specification and sheet thickness other than what is mentioned in the test certificates are not allowed. Proper label confirming the type of door and the hourly rating is mandatory. Approved manufacturer Shakti Hormann or approved equivalent.	Nos	17.00			
23	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm),	Nos	20.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		with double speed adjustment with necessary accessories and screws etc. complete. hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to					
24	9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.	Nos	86.00			
25	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.					
a	9.97.2	250 x 10mm	each	86.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
b	9.97.4	150 x 10mm	each	86.00			
26	21.1 2.2	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. Powder coated minimum thickness 50 micron aluminium tubular handle bar.	Nos	86.00			
27	9.10 1	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating note less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc., complete.					
	9.10 1.1	Single rubber stopper	Nos	66.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
28	9.11 7	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below ( tolerance $\pm 1\text{mm}$ ), with wall thickness 2.0mm ( $\pm 0.2\text{mm}$ ), corners of the door frame to be joined with galvanized brackets and stainless steel screws, joints mitered and plastic welded. The hinged side vertical of the frames reinforced by galvanized M.S. tube of size 19x19 mm and 1mm ( $\pm 0.1\text{mm}$ ) wall thickness and 3 nos. Stainless steel hinged fixed to the frame complete as per manufacturers Specification and direction of engineer -in-charge					
	9.11 7.1	Extruded section profile size 48x40 mm	met er	195.80			
29	9.11 8	Providing and fixing existing door frames:					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	9.11 8.1	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 ( $\pm 0.2\text{mm}$ ) with in built edging on both sides. The styles and rails mitered and joint at the corners by means of M.S. galvanized / plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S. tube of size 20x20 mm and 1mm ( $\pm 0.1\text{mm}$ ) wall thickness. The lock rail made up of " H" section, a UPVC hollow section of size 100x24 mm and 2mm ( $\pm 0.2\text{mm}$ ) wall thickness, fixed to the shutters styles by means of plastic/ galvanized M.S.'U' cleats. The shutter frame filled with a UPVC multi chambered single panel of size not less than 620mm, having over all thickness of 20mm and 1mm ( $\pm 0.1\text{mm}$ ) wall thickness. The panes filled vertically and tie bar at two places by inserting horizontally 6mm galvanized 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 bath room door shutter).	Sqm	58.48			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
30	21.1	Providing and fixing aluminum work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate z sections and other sections of approved make conforming to IS : 733 and IS : 1285 fixed with fixed with raw plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately).					
	21.1.1	For fixed portion					
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kgs	4215.00			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
31	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 PVC / neoprene gasket required (fittings shall be paid for separately)					
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kgs	2815.00			
32	21.2	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS : 12823 Grade I type II in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc., complete as per architectural drawings and directions of engineer-in-charge.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	21.2.2	Prelaminated particle board with decorative lamination on both sides.	Sqm	140.00			
33	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc., with PVC / neoprene gasket etc., complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).					
	21.3.2	With float glass panes of 5.50 mm thickness	Sqm	300.00			
	21.3.3	With float glass panes of 8.0 mm thickness	Sqm	140.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
34	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with side plate etc., complete as per the direction of Engineer-in-charge.					
	21.4.2	With brass cover plate	Each	15.00			
35	21.8	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.					
	21.8.1	Upto 5mm depth and 5mm width	meter	490.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
36	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge ( Door handle, lock and stopper etc. to be paid separately)	Sqm	30.00			
37	9.147	Providing and Fixing, uPVC factory made, white colour casement/sliding window and door made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge. (Glazing, hardware hinges and fitting etc. to be paid separately.) Note :- Each member of window to be measured separately with clear length.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	9.14 7.2.1	Casement Frame (67mm x 62mm)	m	700.00			
b	9.14 7.2.2	Casement Window Sash/Mullion (67mm x 75mm ) (style, rail and intermediate section)	m	810.00			
c	9.14 7.2.3	Casement Glazing Bead (35mm X 18mm)	m	990.00			
38	<b>9.14 8</b>	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a	9.14 8.1	200 x 19 x 1.9 mm	each	55.00			
b	9.14 8.3	300 x 19 x 1.9 mm	each	150.00			
39	9.14 9	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	each	355.00			
40	9.68. 1	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. Complete-300 mm weighing not less than 200 gms	each	205.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
41	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 bolt 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 Engineering-in-charge .( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc. )	Kgs	500.00			
42	10.26.1	Providing and fixing hand rail of approved size by welding etc. to steelladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer	Kg	1940.00			
43	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					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	9.48.2	Fixed to openings with rawl plugs screws etc.	Kgs	1000.00			
44	Code 1220	Providing and fixing Wire mesh (rabbit) nominal wide manufactured out of hot dipped galvanised iron of nominal thickness , along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing, with all lead and lifts and all incidental charges, complete as per specification and as directed by the engineer in charge. ( length of mesh only be measured for payment )	Sq.M	225.00			
45	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	Kgs	200.00			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
46	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 – part 1 and M.S. top cover of required thickness for rolling shutters.					
	10.6.1	80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sqm	84.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
47	10.7	Providing and fixing ball bearing for rolling shutters.	each	6.00			
48	10.8.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters -Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	84.00			
49	10.9	Extra for providing grilled rolling shutters	Sqm	42.75			
50	MR	Vacuum Dewater flooring for a thickness of 6.5cm with cement concrete 1:11/2:2 finishing the surface with mechanical means ,vacuum sucking ,adding floor hardener (1m <sup>2</sup> =3kg) ,vibrating, finishing etc before chipping and clearing the surface and curing ,including cost of all materials and labour charges etc complete	Sqm	7150.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
51	MR	Providing 6mm groove for VDF Flooring and filling the gaps using Silicon sealant including grinding and finishing the surfaced etc complete.	meter	1500.00			
52	8.2	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Lowest retail price not less than Rs. 2900.00/m2					
a	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	60.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
b	8.2.2 .2	Area of slab over 0.50 sqm.	Sqm	175.00			
53	7.38	Stone cladding work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1cement : 3coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.					
	7.38. 1.1 & 7297 &27 50	Granite stone 18mm thick of any colour and shade	Sqm	56.00			
54	8.6	Mirror polishing on marble work/Granite stone work where ever required to give high gloss finish complete.	Sqm	56.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
55	8.3.2	Extra for providing edge moulding to 18mm thick granite stone counters. Vanities etc. item including machine polishing to edge to give high glass finish etc. complete as per design approved by Engineer- in - charge.	meter	50.00			
56	8.5	Extra for providing opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in granite stone work including necessary holes for pillar taps etc.including rubbing and polishing of cut edges etc.complete.	Each	30.00			
57	11.20	Chequered precast cement concrete tiles 22mm thick in fire escape staircase/ car porch jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) (1 cement : 4 coarse sand)					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	11.2 0.1	Light shade using white cement	Sqm	650.00			
58	11.4 1	Providing and laying polished vitrified floor tile in different sizes (thickness to be specified by the manufacturer) with Acid and / or Alkali resistant tiles and water absorptions less than 0.08% and confirming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement:4 Coard sand) including grouting the joints with white cement and matching pigments etc. complete. (Lowest retail price not less than Rs. 1240/m2)					
	11.4 1.2	Size of Tiles 60 x 60 cm	Sqm	1300.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
59	11.4 6.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm (Tiles to be selected by the Engineer in charge)(Lowest retail price not less than Rs. 1240/m2)	Sqm	160.00			
60	11.3 9	Providing and laying rectified Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 15622 of approved make in colours white,Ivory, Grey, Fume, Red Brown, 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. (Lowest retail price not less than Rs. 655/m2)	Sqm	220.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
61	MR	Providing and fixing 1st quality joint free germs free ceramic glazed wall tiles 300x600mm size confirming to IS: 15622(thickness to be specified by the manufacture)of approved make in all colours, shades except burgundy, Bottle green, Black of any size as approved by Engineer-In -Charge in skirting, risers of steps and dados over 12mm thick bed of cement Mortar 1:3 (1 cement :3Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Wet area) (Lowest market rate not less than Rs. 655/m2) (Tiles to be selected by the Engineer in charge.	Sqm	750.00			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
62	12.45	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.					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		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					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-charge.					
	12.45	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	Sqm	580.00			
63	MR	Providing and fixing false ceiling with PVC interlocking pannel board of size 250mm x 8mm , with 25mmx25mm aluminium square of 1mm thick @ 500mm centre to centre with aluminium T of size 25mm x 25mm of 1.2 mm thick @ 1000mm centre to centre including fixing with aluminium screw in joints and finishing etc, complete	Sqm	227.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
64	MR	Providing and fixing rubber corner guard for edge protection on the column edges of size 900*75*75mm ; with black and yellow reflective stickers ; 4 reflective tape	Each	45.00			
		<b>Internal Plastering</b>					
65	13.1.1	12mm cement plaster of mix 1:4 (1 cement : 4 fine sand) for full brick wal	Sqm	18067.30			
66	13.2.1	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand)	Sqm	2000.00			
		<b>External Plastering</b>					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
67	13.2.1	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) up to 10m height	Sqm	2500.00			
68	13.2.1 + 13.2.2	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 10m to 13m height	Sqm	893.18			
69	13.2.1 + (13.2.2)*2	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 13m to 16m height	Sqm	726.00			
70	13.2.1 + (13.2.2)*3	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 16m to 19m height	Sqm	766.74			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
71	13.2.1 + (13.2.2)*4	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 19m to 22m height	Sqm	490.92			
		<b>Roof top plastering</b>					
72	13.9.2	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement :20 mm cement plaster to top of slab and sunshade	Sqm	2372.84			
73	4.1.2	Extra for providing and mixing water proofing material in cement concrete per 50 kg work in doses by weight of cement as per manufacturer's specification.	per 50 kg	4527.37			
		<b>Ceiling Plastering</b>					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
74	13.1 6.1	6 mm cement plaster of mix :1:3 (1 cement : 3 fine sand)	Sqm	12840.9 6			
		<b>WALL FINISHES</b>					
		<b>INTERNAL</b>					
75	13.6 0.1	Wall painting with Plastic emulsion paint of approved brand and manufacture to give an even shade –Two or more coats on new work.	Sqm	32158.2 5			
76	13.4 3	Applying one coat of cement primer of approved brand and manufacture on wall surface – Cement Primer	Sqm	32158.2 5			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
77	13.4 8.3	Painting Steel work with Delux Multi surface paint to give an even shade.Two or more coat applied @ 0.90 ltr/10sqm over an over an under coat of primer applied @ 0.80ltr/10sqm of approved brand or manufacture.	Sqm	258.68			
78	13.8 0	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	32158.2 5			
		<b>EXTERNAL</b>					
79	13.4 5	Finishing wall with textured exterior paint of required shade:					
	13.4 5.1	New work (Two or more coats applied @ 3.28ltr/10 sqm)over and including base coat of water proofing cement paint applied @2.20kg/10sqm)	Sqm	5376.85			
80	13.4 6	Finishing walls with Acrylic Smooth exterior paint of required shade :					



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	13.4 6.1	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	5376.85			
81	2.34	Supplying chemical emulsion in sealed containers including delivery as specified					
	2.34. 1	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	litre	1400.00			
82	2.35	Diluting and injecting chemical emulsion for POSTCONSTRUCTION anti-termite treatment (excluding the cost of chemical emulsion) :					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	2.35.3.1	2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Sqm	2520.00			
83	26.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. ( The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	Kg	2070.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
84	26.1	Providing and Fixing Rectangular Aluminium tubular sections of size 50x25mm 1.626mm thickness in toilet duct external face of building in natural aluminium color powder coating(Minimum tickness of powder coating 50 microns)	Kg	556.01			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
85	26.2	<p>Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:</p> <p>a) Structural analysis &amp; design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must pass the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation &amp; drainage and protection against fire hazard including:</p> <p>b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc.</p> <p>to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of</p>		60			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
85		c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory /work shop environment , including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. d) Providing and fixing in position flashings of solid aluminium sheet 1mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight. e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid,					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		<p>installation of glazed units, T&amp;P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineerin-Charge.</p>					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		<p>Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this subhead. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places.</p> <p>Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science &amp; Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories</p>					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		<p>Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) &amp; (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr"</p> <p>2. Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml."</p> <p>3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml"</p> <p>4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm"</p> <p>5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site</p> <p>6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml"</p>	Sqm	318.08			



Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	26.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube	Sqm	80.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
86	MR	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & coloumns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc.,complete..	Sqm	180.00			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
87	5.28	Providing and fixing in position 12mm thick bitumen impregnated fibre board confirming to IS :1838 including cost of primer sealing compound in expansion joints.	per cm depth per 100m	100.00			
88	5.29.2.1	Providing and fixing sheet covering over expansion joints with iron screws as per design. Aluminium fluted strips 3.15 mm thick. - 150 mm wide	M	<a href="#">40</a>			
		<b>CIVIL COST</b>					

**INTERNAL PLUMBING AND SANITATION WORKS (PART - B )**

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	M.R	Providing and fixing white vitreous china <b>Wall Mounted type water closet</b> (European type W.C.pan) with seat and lid, 3/6 litre low level white vitreous Dual Flushing cistern and C.P flush bend with fitting and C.I brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required. Make: Hindware,Cera,Jaquar etc., WC pan with ISI marked white solid plastic seat and lid (Lowest retail price not less than 10,000/each. Materials to be selected by the Engineer in charge)	38	Nos.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
2	MR	Providing and fixing wash basin (counter type) with CI / MS brackets, 15mm CP brass <b>Pillar taps</b> , 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.: White Vitreous China Wash basin size 630 x 450mm with a single 15mm C.P brass pillar tap. Make:Hindware,Cera,Jaquar etc., (Lowest retail price of basin not less than Rs. 3000/each and Pillar tap not less than Rs. 2000/each. Materials to be selected by the Engineer in charge)	29	Nos.			
3	17.5.1	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required : (Make: Hindware, Jaquar, Parryware):Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	14	Nos			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
4	17.10 .1.1	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 : Kitchen sink with drain board :510x1040 mm bowl depth 250mm.	3	Nos			
5	MR	Providing and fixing C.P. brass <b>bib cock</b> of approved quality conforming to IS:8931. Make:Hindware,Cera,Jaquar etc., 15 mm nominal bore. (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge)	38	Nos.			
6	MR	Providing and fixing C.P. brass long body bib cock (Sink cock)of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore (Lowest retail price not less than 1800/each. Materials to be selected by the Engineer in charge)	29	Nos.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
7	18.52 .1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931: 15 mm nominal bore. Make: Hindware, Cera, Jaquar etc..	29	Nos.			
8	17.69 .1	Providing and fixing CP <b>Waste coupling</b> for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make: Hindware, Jaquar etc.,	11	Nos.			
9	17.28 .1.1	Providing and fixing <b>PVC Waste pipe</b> for sink or wash basin including PVC waste fittings complete.: Semi rigid pipe 32mm dia	29	Nos			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
10	18.65	Providing and fixing SS soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	11	Nos.			
11	17.34 .1	Providing and fixing <b>Toilet paper holder</b> . Make:Hindware,Cera,Jaquar etc...;C.P Brass	38	Nos.			
12	17.31	Providing and fixing 600 x 450mm <b>bevelled edge mirror</b> of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1	Nos.			
13	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 :					



Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		Rectangular shape 1500x450 mm	10	Nos.			
14	17.73 .2	Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	38	Nos.			
15	MR	Providing & fixing of CP <b>Health faucet. Hand operated spray unit (instand type).</b> Make:Hindware,Cera,Jaquar etc., (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge)	38	Set			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
16	18.7	Providing and fixing <b>Chlorinated Polyvinyl Chloride</b> (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in caharge. Make:Supreme,Finolex,Prince etc.,					
		<b>Internal Work - Exposed on wall</b>					
a)	18.7.2	20mm nominal outer dia.Pipes	100	Mtr.			
b)	18.7.3	25mm nominal outer dia.Pipes	100	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
17	18.8	Providing and fixing <b>Chlorinated Polyvinyl Chloride</b> (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and 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 caharge. Make:Supreme,Finolex,Prince etc.,					
		<b>Concealed work including cutting chases and making good the wall etc.</b>					
a)	18.8.2	20mm nominal outer dia.Pipes	100.0	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
b)	18.8.3	25mm nominal outer dia.Pipes	100.0	Mtr.			
18	MR	Providing and fixing PVC pipes for water supply arrangements including cost pipes, fittings, solvent cement,testing of pipes, labour charges etc complete : <b>Exposed on wall</b>					
a)	MR	20mm dia. PVC pipe (12kg/cm2)	150.0	Mtr.			
b)	MR	25mm dia. PVC pipe (12kg/cm2)	300.0	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
c)	MR	32mm dia. PVC pipe (10kg/cm2)	100.0	Mtr.			
d)	MR	50mm dia. PVC pipe (8kg/cm2)	150.0	Mtr.			
19	MR	Providing and fixing PVC pipes for water supply arrangements including cost pipes, fittings, solvent cement, testing of pipes, labour charges etc complete : <b>Concealed work including cutting chases and making good the wall etc</b>					
a)	MR	20mm dia. PVC pipe (12kg/cm2)	200.0	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
b)	MR	25mm dia. PVC pipe (12kg/cm <sup>2</sup> )	150.0	Mtr.			
c)	MR	32mm dia. PVC pipe (10kg/cm <sup>2</sup> )	50.00	Mtr.			
d)	MR	40mm dia. PVC pipe (10kg/cm <sup>2</sup> )	100.0	Mtr.			
e)	MR	75mm dia. PVC pipe (10kg/cm <sup>2</sup> )	80.00	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
20	18.18	Providing and fixing <b>Ball Valve (brass)</b> of approved quality, High or low pressure, with plastic floats complete. Make:Lehry,Supreme,Finolex,Prince etc.,					
	18.18 .2	20mm dia nominal bore	40	Nos.			
21	18.17	Providing and fixing <b>Gun metal gate valve</b> with C.I. wheel of approved quality (screwed end). Make: Lehry,Supreme,Finolex,Prince etc.,					
a)	18.17 .1	25 mm dia nominal bore	5	Nos.			
b)	18.17 .2	32 mm dia nominal bore	5	Nos.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
c)	18.17 .4	50 mm nominal bore	3	Nos.			
22	18.77	<b>Cutting holes</b> upto 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including finishing complete.	50	each			
23	12.41 .2	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. 110 mm diameter	300	mtr.			



Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
24	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.					
a)	12.42 .1.2	110 mm Coupler	40	each			
b)	12.42 .3.2	110x110x110 mm Single tee with door	20	each			
c)	12.42 .5.2	110 mm bend	20	each			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
d)	12.42 .6.2	110 mm Shoe	5	each			
25	MR	Providing and fixing to the Inlet mouth of rain water pipe S.S grating 110mm diameter and weighing not less than 440 grams.	5	Nos			
26	M.R.	Providing and fixing <b>PVC</b> soil, waste and vent pipe to IS : 13592 of SWR quality including all fittings, like : 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 paste including cutting holes in walls and floors and making good. Make:Supreme,Finolex,Prince etc.,					

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a)	M.R.	50mm dia (6kg / sq.cm)	350.0	Mtr.			
b)	M.R.	63 mm dia (6kg / sq.cm)	150.0	Mtr.			
c)	M.R.	75 mm dia (6kg / sq.cm)	100.0	Mtr.			
d)	M.R.	110mm dia (4 kg / sq.cm)	200.0	Mtr.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
e)	MR	160mm dia (4kg/sq.m)	125.0	Mtr.			
27	M.R.	Providing and fixing <b>PVC floor trap</b> self cleansing design with or without vent arm complete including cutting and making good the walls and floors. Make:Supreme,Finolex,Prince etc.,					
a)	MR	110mm dia inlet 110mm dia outlet	40	Nos			
28	M.R	Providing and fixing <b>CP grating</b> of 6mm thick with rim including setting in floor with white cement mortar and making good the floor (Chilli make)					

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a)		125mm dia	50	Nos.			
29	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 40mm nominal size), inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :					

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
a)	19.7.1.1	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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6	Nos.			
b)	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :					
	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	Nos.			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
c)	19.7.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :					
	19.7.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4	Nos.			
30	19.8	Extra for depth for manholes					
a)	19.8.1.1	Size 90x80 cm: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5	m			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
b)	19.8.2.1	Size 120x90 cm: with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	m			
31	19.4	Providing and fixing square – mouth <b>PVC. Gully trap</b> grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm 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					
a)	19.4.2.1	150 x 100mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6	each			



Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
32	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	150.0	Rmt			
33	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	19.6.2	150 mm dia. R.C.C. pipe	200.0	Mtrs			
34	3860	Supplying, conveying and fixing Heavy duty CI Manhole cover and frame 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :	7	Each			
35	Derived from DSR item no.19.11	SFRC cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to I.S 12592, total weight of cover and frame to be not less than 182 kg fixed in cement concrete 1:2:4 (1cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including centring, shuttering all complete	10	Each			

Sl. No.	DSR	Description	Quantity	Unit	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
36	8.5	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters 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	33	Each			
37	8.10.2	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.Granite Stone of approved shade.	12	Sqm			
		<b>Total amount</b>					

**COMPOUND WALL (PART - C )**

Item No	DSR	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m 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.:All kinds of soil	cum	370.42			
2	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 50m and lift up to 1.5m.	cum	581.78			
3	7.1.1	<b>Random Rubble Masonary</b> 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 20mm nominal size) at plinth lvl with:Cement Mortar 1:6 (1cement:6coarse sand)	cum	180			

Item No	DSR	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
4	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	16			
5	5.1.2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering and shuttering - All work up to plinth level :1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	cum	59			
6	5.9	Centering and shuttering including strutting, propping etc., and removal of form for,					
a	5.9.1	Foundations, Footings, bases of columns,etc for mass concrete.	Sqm	80.16			
b	5.9.6	Columns and Pillars, Piers, Abutments, Posts and Struts.	Sqm	501			

Item No	DSR	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
c	5.9.5	Lintel, beams, plinth beams, girders, bressumers and cantilevers	Sqm	150			
7	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete					
	5.22.6	Termo – Mechanically Treated Bars	Kg	4425			
8	4.7	Providing and fixing up to floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :					

Item No	DSR	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	4.7.2	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Cum	238.15			
9	10.2	Structural Steel work riveted, bolted or welded in built up sections, trusses & framed work including cutting hoisting fixing in position & applying priming coat of approved steel primer all complete.	Kg	960			
10	16.18.1	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire	Metre	5000			

Item No	DSR	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
		used. With G.I. barbed wire					
11	16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete	Kg	800			
12	13.1.1	12mm cement plaster of mix 1:4 (1 cement : 4 fine sand) for full brick wal	Sqm	2500			
13	13.37	White washing with lime to give an even shade : New work	Sqm	2500			
14	13.62.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	48			
		<b>TOTAL</b>					



**RETAINING WALL (PART - D )**

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m 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.:All kinds of soil					
		<b>All kinds of soil</b>	Cum	327.00			
2	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 50m and lift up to 1.5m.	Cum	254.64			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works up to plinth level.					
	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	13.40			
4	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.)					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
	5.34	Extra for proving richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.					
a	5.33.1	All work up to plinth level. (M25)	Cum	25.33			
b	5.33.2	All work above plinth level up to floor V level (M25)	Cum	70.56			
5	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.					
		<b>for M25</b>	Quintal	40.32			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
6	5.9	Centering and shuttering including strutting, propping etc., and removal of form for,					
a	5.9.1	Foundations, Footings, bases of columns,etc for mass concrete.	Sqm	57.75			
b	5.9.2	Walls any thickness including attached pilasters butteresses,Plinth and string courses etc.	Sqm	747.12			
7	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete					
	5.22.6	Thermo – Mechanically Treated Bars	Kgs	11800.0			
		<b>TOTAL</b>					

**ROAD WORK (PART - E )**

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	2.2	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
	2.2.1	<b>Ordinary rock</b>	Cum	240.00			
2	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m 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.:All kinds of soil	Cum	820.00			
		<b>FILLING IN SUBSTRUCTURE</b>					

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
3	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 50m and lift up to 1.5m.	Cum	1948.59			
4		Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	1922.50			
5	16.79	Providing, laying, spreading and compacting graded stone aggregate (45mm to 22.4mm @30%, 22.4mm to 2.36mm @40% and 2.36mm to 75micron @30%) to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed materials by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	368.98			

Item no.	DSR code	Item Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
6		Providing and laying 80mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape including 50mm thick compacted bed of coarse sand,filling the joint with coarse sand etc all complete as per the direction and drawing of the Engineer in charge	Sq.M	1899.95			
		<b>TOTAL</b>					