

TENDER

FOR

CONSTRUCTION OF ADDITIONAL FLOORS IN

NEW BUILDING AT

AKKULAM FACTORY OF HLL, THIRUVANANTHAPURAM

PART-III

PRICE BID

TENDER NO. HLL/ID / 13/ 103 (Re tender)

NOVEMBER 2013



INFRASTRUCTURE DEVELOPMENT DIVISION

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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 Additional floors in New Building at Akkulam Factory of HLL at Thiruvananthapuram.**

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.

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

1.6.2. Within the above frame work of the terms of payment the contract's interim bills will have to be of a minimum value of Rs.25.0 lakh only.

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.

1 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.

LIST OF APPROVED MAKES - CIVIL

Sl. No	Materials	Manufacturers / Agencies
1	Ready mixed Concrete	UltraTech, RAMCO, ACC, Birla. Design mix vetted through government engineering college to be produced by vendor and got approved by engineer in charge.
2	Ordinary Portland Cement (Minimum 43 Grade)	UltraTech, RAMCO, Chettinad, IndiaCements, Birla (Grasim), ACC
3	Reinforcement/Structural Steel (Each LOT shall accompany manufacturer's Test Certificate)	SAIL, TISCO, RINL
4	White Cement	JK Cement, Birla White
5	Vitrified Tiles	Nitco, Johnson, Naveen, Euro, Somany, AGL, Johnson, Kajaria, Marbita
6	Flush doors	Kutty Flush Doors, Mysore Boards, Indian Plywood Mfg, Co, 'KIT' Ply' brand or any BIS approved brand
7	Fire doors	Shakti Met-Dor, Godrej, Sukri, Pacific works controls
8	FRP Doors	Fibrevent, Techno skills or Equivalent (or as approved by E-in-C)
9	Aluminium Fittings	Everite, Garnish, Crown Classic
10	Hydraulic floor Spring	Everite, Garnish, Hardwyn, Dorma
11	Aluminium Extruded Sections	Jindal, Hindalco, Indalco
12	Aluminium Doors/Windows	As approved by E-in-C
13	Paints, Distempers	Jenson & Nicholson, Asian, ICI, Nerolac, Berger
14	Glazing	Float Glass of Modiguard or Saint-Gobain
15	Water proofing Works	As approved by E-in-C
16	Hydraulic Door Closers	Hardwyn, Everite, Garnish, Dorma

17	Water Proofing Cement Paint	Showcem India, ICI, Nerolac
18	Ceramic Glazed Floor Tiles	Nitco, Orient, Kajaria, Somany, Naveen, AGL, Johnson
19	Cast Iron Pipe and Fittings (Soil Pipes)	BIC, HEP, NECO, Ajmera
20	GI Pipes (ISI marked)	TATA, Zenith, Jindal, Gujarat Steel, ITC
21	GI Fittings (ISI marked)	‘R’ Brand, UNIK or equivalent
22	Gunmetal Valves & Fittings	Premier, Leader, Zoloto, or ISI marked brand
23	CP Brass Sanitary and water supply Fittings	Jaguar/Essess/SOMA/BILMAT/ Dripless or equivalent approved by E-In-C
24	Vitreous China Sanitary ware	Hindustan, EID Parryware, Cera
25	WC Seats & Covers	Commander, Diplomat, Admiral (or as approved by E-In-C)
26	CI Fixtures, CI Cover & Frame	Ashok Iron Works/Bombay Iron Works/A Husainji / Ismaelji, Neco, BIC, RIF
27	CPVC Pipes	Astral Polytechnik, Ashirvad, Ajay Industrial corp, Prince, Supreme
28	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
29	Plywood Products, Parcticle Boards & Veneers	Duroply (Green Marked, BWR Century Plywood, Green Plywood Kitply, Mysore Boards
30	Adhesive	Pidilite, Araldite
31	Plastic Laminates	Formica, Greenlam, Bakelite HYLAMylam
32	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
33	Tile Joint Filler	Bal Adhesives & Grouts,”ROFFE” Rainbow Tile Mate, Silicon Sealnet of GE Bayer Silicon/”Zentrival FM” of MC-Bauchemie (India) P Ltd
34	MS Tubes	TATA or equivalent
35	Roof Water Proofing	India Water Proofing, CICO, SIKA

36	Silicon Sealant	GE Bayer Silicone, SIKA
37	Anchor Fastener	Hilti, Bosch
38	Formwork Release Agent	Fosroc, MBT, MC Baucheme CICO, ADO Conmat
39	EPOXY	FOSROC. SIKA Qualcrete, Aradlite MBT
40	Water proofing System	CICO, FOSROC, SIKA, Supreme Siltech Chemicals, ADO Conmat
41	Stainless Steel Sinks	Prestige/AMC/Jayna/Kingston/Neelkanth
42	CP Waste, Spreaders for Urinals	Jaguar / Essess
43	Sensor based Auto Flushing System for Urinals	AOS Systems/Angash
44	SFRC Manhole Covers	Southern Concrete Industries, Rajvaibav Enterprises or equivalent
45	UPVC Pipes/Fittings	Supreme/Prince/ Finolex
46	Mirror	Atul/Modifloat/Saint Gobain/Golden Fish/AIS

BILL OF QUANTITIES

ABSTRACT

SEC.	DESCRIPTION OF ITEM	AMOUNT (Rs.)
A	CIVIL WORKS	
	GRAND TOTAL	

CONSTRUCTION OF ADDITIONAL FLOORS IN NEW BUILDING AT AFT

Part - I : CIVIL WORKS

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
1	5.33.2 + 5.35 (@40kg/cum)	<p>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 but excluding 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. All works above plinth level upto floor V level</p> <p>(Note :- Cement content considered in this item is @ 370 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately</p> <p>All works above plinth level upto floor V level.</p>	cum	65.00		

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
2	5.37.2 + 5.35 (@40k g/cum)	<p>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 and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as 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 reinforcement including cost of 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 the Engineer - in - charge.</p> <p>(Note :- Cement content considered in this item is @ 370 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately</p> <p>All works above plinth level upto floor V level.</p>	cum	215.00		
3.a	5.35	Add for using extra cement in the items of design mix over and above the specified cement content there in.	qtl	28.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
3.b	5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	280.00		
4	5.22 A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo Mechanically Treated bars	Kg	37,500.00		
5.a	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	sqm	1,120.00		
5.b	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	770.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
5.c	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	335.00		
5.d	5.9.7	Stairs, (excluding landings) except spiral-staircases	sqm	75.00		
5.e	5.9.16.1	Edges of slabs and breaks in floors and walls. Under 20 cm wide	m	275.00		
5.f	5.11.1	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	sqm	850.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
6.a	6.4.2	Brick work with F.P.S bricks of class designation 75 in superstructure above plinth level upto floor V level in cement mortar 1:6 (1 cement: 6 coarse sand)	cum	92.00		
6.b	6.13.2	Half brick masonry with bricks of class designation 75 in superstructure upto V level.. Cement mortar 1:4 (1 cement :4 coarse sand)	M ²	445.00		
7.a	6.5	Extra for brick work/ AAC block masonry/ Tile brick masonry in super structure above floor V level, for each four floors or part thereof by mechanical means.	cum	92.00		
7.b	6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	sq.m	445.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
8	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	200.00		
9	10.17	Providing and fixing M.S. fan clamp type I of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs during laying including painting the exposed portion of loop , all as per standard design complete.	each	2.00		
10	10.26.1	Providing and fixing hand rail by welding etc. to steel ladder railing balcony railing & staircase railing including applying a priming coat of approved steel primer. Powder coated MS tube	Kg	550.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
11	10.28	Supplying and fixing hand rails with 304 grade polished stainless steel pipe 2mm wall thickness for stair cases. 50mm diameter for hand rails and 100 mm dia for newel post and 25mm dia balusters 30cm c/c and 2nos horizontals welded together, including all necessary fittings etc. as per the drawing and direction of the Engineer – in – charge. Hand rails shall be fixed in the floor/steps with expansion hold fasters of required size including drilling etc. complete	Kg	45.00		
12. a	13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.	Sqm	875.00		
12. b	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	1,270.00		
13	13.7.2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	Sqm	2,250.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
14	13.16.1	6 mm cement plaster of mix:1:3(1 cement:3 fine sand)	Sqm	1,400.00		
15	13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer to underside of roof slab	Sqm	924.70		
16. a	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade 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	1,312.50		

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
16. b	14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	Sqm	150.00		
17	13.52. 2	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete to the inside walls	Sqm	2,250.00		
18	13.61. 1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :- Two or more coats to window grills	Sqm	200.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
19	13.69.1	Polishing on wood work with ready made wax polish of approved brand & manufacturer on New work	Sqm	45.36		
20	11.41.2	Providing and laying vitrified floor tiles in different sizes of 10mm thickness with water absorption less than 0.08% and conforming to IS: 15622, of JOHNSON, NITCO, ORIENT, KAJARIA or approved make 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. of size 600 x 600mm	Sqm	330.00		
21	11.3.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1 40mm thick with 20mm nominal size stone aggregate.	Sqm	300.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
22	8.2.2.1	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. Area of slab upto 0.50 sqm	sqm	14.00		
23	11.23 + 7297	Granite stone flooring with 18mm thick Granite (sample to be approved by engineer in charge) over 20mm average thick base of cement mortar 1:4(1 cement : 4 coarse sand) laid & jointed with grey cement slurry including filling of joints with grey cement slurry mixed with matching colour pigment, complete as per directions. In treads and risers of staircase, lobby, corridors etc	Sqm	120.00		
24. a	11.24	Extra for pre finished nosing to treads of steps of granite stone.	m	137.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
24. b	11.25	Extra for granite stone flooring in treads of steps and risers using single length up to 2.00 metre .	sq.m	32.00		
25	21.1.1.2	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): a) For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) of required colour as directed by the engineer in charge.	Kg	1,260.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
26	21.1.2.2	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) Powder coated aluminium (minimum thickness of powder coating 50 micron) of required colour as directed by the engineer in charge.	Kg	750.00		
27	21.3.2	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):With float glass panes of 5.50 mm thickness	sqm	150.00		
28	LMR	Providing & fixing Solid door made from 35 mm flush door of size as per site condition, finished with 1 mm thick laminate from both side. & Teak wood beading & locking system with SS Mate finished mortise type lock & SS handle As per architect suggested with necessary hardware with SS hinges etc. complete as per the drawing & design or as directed Engg.-in charge.	Sqm	11.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
29	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) with double speed adjustment with necessary accessories and screws etc. complete.	Each	2.00		
30	21.4.1	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.	Each	2.00		
31	9.1.1+ 13.68	Providing and fixing in position TW frames for doors 100X75mm. The frame should be FRENCH polished of the approved shade. Second class teak wood	cum	0.20		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
32	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Rm	10.00		
33	LMR	Providing & fixing semi unitized structural glazing system to support/hold glass having main frame work of mullions 63 X 57 X 2mm wt. 1.715 Kg/m of designed extruded sections to with stand and fabricated fixed at all levels, elevation and heights. The extruded section shall be finished, with electrolytic colour anodized of minimum 15 microns Extruded section shall be of 6063 T 6 Alloy. Fastening, straps, nuts, bolts, rivets, washers and other fastening materials shall be in stainless steel. Rate shall include EPDM, approved silicon sealant of recommended grade from DOW corning/equivalent etc., complete for a full proof system. Glass: 6mm Reflectasol Green / Blue . (Saint Gobain Toughened Glass or eq)	Sqm	240.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
34	22.7.1	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations. Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. Of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment. Laying cement concrete using broken bricks/brick bats 25 mm to 100 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS :2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS: 2645.Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300x300 mm square. The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge. With avg thkness of 120mm and min thk at khurra as 65 mm for terrace.</p>	Sqm	315.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
35	12.41.2	Providing and fixing on wall face unplastised - 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) 110 mm diameter	Rm	70.00		
36	12.42.5.2	Providing and fixing PVC moulded fitting for rigid PVC rain water pipes (a) 110mm bend	Each	2.00		
37	18.58.2.1	Providing and fixing PTMT grating of approved quality and colour. 150 mm nominal size square 100 mm diameter of the inner hinged round grating	NOS	2.00		
38. a	LMR	Providing and jointing PVC pipes of (pressure 10Kg/cm ²) for water supply including testing of joints, concealing the pipes & trenching & refilling wherever required etc complete. 20mm PVC pipe	Rm	20.00		

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
38. b	LMR	25mm PVC pipe	Rm	25.00		
39	LMR	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors a)100mm inlet and 75mm outlet.	Each	3.00		
40	18.21. 1.1	Providing and fixing unplasticised P.V.C connection pipe with brass unions :- 45 cm length,15MM nominal bore	each	2.00		
41	LMR	Providing & fixing PVC Fittings and fixtures Conforming IS specifications including cutting and making good the walls etc complete, 110mm dia plain elbow	each	1.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
42	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	12.00		
43	18.21.1.2	Providing and fixing chlorinated PVC connection pipe with brass union 1/2" dia nominal bore	Each	20.00		
44. a	18.8.1	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 15mm dia. nominal bore	Metre	50.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
44. b	18.8.2	20mm dia nominal bore	Metre	25		
45. a	18.9.2	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. - External work 20mm dia nominal bore	Metre	30.00		
45. b	18.9.3	25mm dia. nominal bore	Metre	30.00		
45. c	18.9.5	40mm dia. nominal bore	Metre	30.00		

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
45. d	18.9.6	50mm dia nominal bore	Metre	30.00		
46. a	18.17.1	Providing and fixing gun metal Gate valve with CI wheel of approved quality (screwed end) 25mm dia nominal bore	Each	1.00		
46. b	18.17.3	40mm dia.nominal bore	Each	2.00		
46. c	18.17.4	50mm dia. nominal bore	Each	2.00		

47	17.1.1	<p>Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:</p> <p>White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.</p>	Each	2.00		
48	17.2.1	<p>Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :</p> <p>W.C. pan with ISI marked white solid plastic seat and lid</p>	Each	2.00		
49	17.34.2	<p>Providing and fixing toilet paper holder : Vitreous china</p>	Each	2.00		

SI. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
50	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	Each	2.00		
51	LMR	Providing and fixing jetspray, 1 m long flexible tube and wall hook of JAQUAR or equivalent	Each	2.00		
52	LMR	Providing and fixing Jaquar continental series double hook (cat no- 1161N) or equivalent	each	10.00		
53	LMR	Providing and fixing Jaquar- Continental series bib cock of short thread (cat no- 037) or equivalent	Each	8.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
54	LMR	P & F angular stop cock of continental series of Jaquar (cat no - 053)	each	25.00		
55	LMR	P & F concealed stop cock 1/2" of continental series (cat no- 069) of Jaquar or equivalent	Each	8.00		
56	LMR	Providing and fixing Jaquar- Continental series LONG BODY bib cock with wall flange (cat no- 107) or equivalent	Each	9		
57	18.48	Providing and placing on terrace (at all floor lvls) polyethylene water storage tanks ISI 12701 marked with cover and suitable locking arrangements and making necessary holes for inlets, outlets and overflow pipes but without fittings and the base support for tank	litre	12000.00		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
58. a	18.18. 2	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20mm dia	Each	1.00		
58. b	18.18. 3	25mm dia	Each	11		
59. a	12.41. 2	Providing and fixing on wall face unplastised - Rigid PVC soil/ waste water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. PVC 110mm dia pipes	Metre	75		
59. b	12.41. 1	PVC 75mm dia pipes	Metre	30		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
60. a	12.43. 2	Providing and fixing CPVC clips of approved design for fixing the pipes with the wall For 110 mm dia pipe	Each	50		
60. b	12.43. 1	For 75 mm dia. Pipe	Each	30		
61. a	LMR	Providing and fixing ISI marked PVC bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 110MM	Each	5		
61. b	LMR	75MM	Each	4		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
62. a	LMR	Providing and fixing double equal ISI marked PVC junction of required degree with access door, insertion rubber washer 3 mm thick bolts and nuts complete 100x100x100mm	Each	1		
62. b	LMR	75x75x75	Each	12		
63	LMR	Providing and fixing ISI marked PVC trap of self cleansing design including lubrication etc complete with door 100mm inlet 75mm outlet	Each	20		

Sl. NO	DSR Code	DESCRIPTION	UNIT	QTY	Rate in Rs. (in words & in fig.)	Amount in Rs. (in words & in fig.)
64	LMR	Providing ISI marked Type -A PVC pipe for sewer drainage including jointing with seal ring and all the necessary fittings, elbows, hard wares etc complete. 160mm dia	rm	50.00		
65	LMR	Making openings in retaining walls/slabs/beams of up to 150 mm dia using core cutting machine without disturbing the existing structure as directed by the engineer in charge	each	5.00		
		TOTAL				