

TENDER

FOR

***EXTERNAL DEVELOPMENT WORKS IN NEW BUILDING
AT AKKULAM FACTORY OF HLL,
THIRUVANANTHAPURAM***

**PART-III
PRICE BID**

**TENDER NO. HLL/ID / 13/86
November 2013**



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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 **External development works in New Building at Akkulam factory of HLL, 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.10.0 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.)
	GRAND TOTAL	

External development works in New Building at Akkulam factory of HLL, Thiruvananthapuram.					
SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
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.	cum	625.00		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	480.00		
3	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil	cum	85.00		
4	Supplying and filling in plinth with quarry dust under floors, including watering, ramming, consolidating and dressing complete.	Cum	5.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
5	Supplying and stacking at site - Good earth	cum	145.00		
6	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.	100 sqm	3.00		
7	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material Beyond 30 cm girth upto and including 60 cm girth	Each	3.00		
8	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	2.50		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
9	Demolishing brick work manually/by mechanical means including stacking of serviceable materials and disposal of un serviceable material within 50 meter lead as per direction of Engineer-in-charge	cum	3.00		
10	Dry stone pitching 30 cm thick including supply of stones and preparing surface complete.	Sqm	45.00		
11(a)	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	cum	40.00		
11(b)	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 20 mm nominal size)	cum	4.20		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
12	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 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	26.00		
13	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 @ 360 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). All works upto plinth level.	cum	25.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
14	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 for Retaining wall.	cum	27.00		
15	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Qntl	2.70		
16	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	8000.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
17(a)	Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	40.10		
b	Walls (any thickness) including attached pilasters, buttermesses, plinth and string courses etc.	Sqm	322.36		
c	Suspended floors, roofs, landings, balconies and access platform.	Sqm	43.38		
18	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
19	Half brick masonry with bricks of class designation 75 in superstructure above plinth level upto floor V level in cm 1:4 (1 cement: 4 coarse sand)	Sqm	2.00		
20	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand).	cu.m	25.00		
21(a)	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	Sqm	320.00		
21(b)	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	Sqm	73.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
22	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	sqm	50.00		
23	Supplying and fixing C.I. cover without frame for manholes: 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	each	5.00		
24	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 :	metre	5.00		
a	150 mm dia. R.C.C. pipe				
b	250 mm dia. R.C.C. pipe				
		metre	20.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
25	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
a	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	Each	8.00		
b	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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
26	Extra depth for manholes				
a	Size 90 x 80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	4.25		
b	Size 120x90 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	2.40		
27	Providing M.S. foot rests including fixing in manholes with 20 x 20 x 10 cm cement concrete blocks 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :- With 20 mm diameter round bar	Each	16.00		
28	Providing & fixing PVC Fittings and fixtures Conforming IS specifications including cutting and making good the walls etc complete : 150 mm dia bend	Each	25.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
29	Providing & fixing PVC Fittings and fixtures Conforming IS specifications including cutting and making good the walls etc complete : Gully trap	Each	5.00		
30	Preparation and consolidation of sub grade with power road roller of 8 to 12tonne 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	280.00		
31	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	50.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
32	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	300.00		
33	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	1.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
34	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sqm	sqm	10.00		
35	Providing edge moulding to 18 mm thick granite stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work	m	20.00		
36	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	930.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
37	Finishing walls with premium quality 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	930.00		
38	Wall painting with acrylic emulsion paint of interior grade, having VOC (Volatile organic compound) content less than 50 gms / litre of approved brand and manufacture , including applying additional coats wherever required to achieve even shade and colour- Two Coats	Sqm	930.00		
39	Painting with synthetic enamel paint of approved brand and manufacture to given an even shade:Two or more coats on new work	Sqm	25.00		
40	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	Per bag of 50 kg cement used in the mix	6.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
41	Supplying and fixing C.I. cover without frame for manholes 560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg.	Each	3.00		
42	Supplying and fixing rolling shutters of approved make with ISI mark, 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.	Sqm	5.00		
43	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	3.00		

SI No	Item	Unit	Quantity	Rate (Rs. in words & in figures)	Total (Rs. in words & in figures)
44	Providing and fixing 30 mm thk Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire-retardant grade unsaturated polyester resin, moulded to 3mm thk FRP laminate for forming hallow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5mm thk FRP laminate for panels and conforming to IS: 14856-2000 including fixing to frames - size- 111cm x67cm	Sqm	1.00		
45	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 thereafter .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	1000.00		
	Grand Total				

