

## Schedule Of Quantity - Civil Works

S No	Description	Unit	Qty.	Unit rate of supply & Installation items or any items, fabricated & completed in all respects, inclusive of necessary testing, transportation, handling, storage and safe custody at site & all incidental costs	Total price of items in Rs. (4 x 5)
1	2	3	4	5	6
<b>1.00</b>	<b>Earth Work</b>				
1.01	Excavation by mechanical or manually in all type of soil or hard strata except rock up to a required depth including bailing out of water/ oil mixed water if encountered, shoring, back filling and compacting the excavated earth by layer in 150mm to 200mm in the trenches, sides of foundations. Rate to include carting away surplus excavated earth, spreading, levelling and compacting, inside/outside the terminal in approved dump yard as directed by EIC (Engineer In Charge).	Cu.M	2372		
1.02	-do- same as per item no. 1.01, for excavation beyond 1.5 M to 3 M below the existing ground level.	Cu.M	15		
1.02a	-do- same as per item no. 1.01, for excavation beyond 3.0 M to 4.5 M below the existing ground level.	Cu.M	1		
1.03	Providing and laying in compact manner 230 mm thick (average) rubble soling in plinth, foundations, plinth protection, Including filling in the visible voids with largest possible chips, covering and levelling the surface with layer of well watered and consolidated sand, rolling with plate compactor etc. complete including supply and spreading cost of sand at site.	Cu M	1472		
1.04	Providing and laying <b>UPVC sheet 400 micron</b> thick alkathene sheets as per IS 2076, on sand bedding and vertical walls, including welding of joints, laps, wastage, etc. Complete as directed by Engineer-In-Charge.	Sq.M	5231		
1.05	Supplying and spreading Machine Cleaned / Screened Sand inlayers, watering and rolling using suitable roller and compacting to a final thickness of 100 mm. The sand to be rolled in 2 layers of 50 mm each. After the first layer rolling is completed Alcathene sheet to be laid and then the second layer of sand to be compacted. Fineness Modulus of Sand shall be considered 1.8, and limits of silt content as per tender.	Cu M	524		

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1	2	3	4	5	6
<b>2.00</b>	<b>Concrete &amp; Allied Work</b>				
2.01	Providing and laying machine mixed Plain cement concrete of all heights in volumetric proportion 1:4:8 (1 Cement: 4 Sand : 8 Aggregate) with 20mm and down stone aggregates of specified thickness, mix and gradation. Including centring, shuttering if required, laying, spreading, ramming consolidating, curing etc. complete as directed for all levels & all types of foundations below footings, walls, angle post, roads, rafts, plinth beams, terrace, cable trenches, pile caps. duct, in flooring etc. complete as directed by Engineer-In-Charge.	Cu.M	532		
2.01a	-do- same as above but for machine mixed Plain cement concrete in Volumetric proportion 1:3:6.	Cu.M	31		
2.02	Providing & laying 75mm thick, machine mixed and machine vibrated M15 (1:2:4) Grade cement concrete of controlled grades for plain cement concrete in Grade slab for Tank farm area in required slope, as per structural design and as directed in specified compressive strength in N/mm <sup>2</sup> at 28 days confirming to IS 456-1978 using 20mm maximum size aggregates. Including mix design of concrete, weigh batched proportioning, finishing concrete surfaces with cement slurry, curing, wastage, lead, etc. complete as Directed.	Cu.M	393		

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1	2	3	4	5	6
2.03	Providing & laying in position machine mixed and machine vibrated or Ready mixed M25 controlled Grade reinforced cement concrete for structural elements for any shape and size viz. column, raft slab, plinth beam, retaining wall, staircase, cable trenches, Tank pads, machine foundations. As per structural design and as directed in specified compressive strength in N/mm <sup>2</sup> at 28 days confirming to IS 456-1978 using 20mm maximum size aggregates. Including mix design of concrete, weigh batched proportioning, pouring with concrete pump, compaction, finishing concrete surfaces, curing, wastage, lead, etc. complete but excluding centring / shuttering and reinforcement for below and above finish grade level.	Cu.M	618		
2.04	Providing and erecting in position Steel plate or Plywood form work shuttering and boxing using shuttering materials of approved quality shuttering, for concrete elements vertical, horizontal or inclined in all shapes except circular shape, column foundations, pedestals, wall footings, plinth beams, cable trenches, compound wall, U.G. water tank, fins, copings, etc. as per drawing. Including necessary Scaffolding, fastener nails, wires, keeping in position till concrete is laid and concrete members have acquired required strength, removal, thereafter, applying de-shuttering oil etc. complete as directed by structural consultant / Engineer-In-Charge. At all levels in foundation and above FFL. Additional scope of work to avoid shrinkage cracks, in 75mm thk flooring construction work in panel of max. 4m x 8m, cutting & filling the groove with polysulphide or polyurethane sealant And It shall be inclusive cost of same additional work in quoted rate by Bidder.	Sq.M	3450		

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1	2	3	4	5	6
2.05	Providing, fabricating and fixing in position Thermo mechanically Treated deformed steel bars. (TMT) (Having 0.2% proof stress not less than 415 / 500 N/mm <sup>2</sup> ) at all heights for steel reinforcement. For all types of RCC structures as per design including loading transporting steel to the work site and incidental charges for loading /unloading handling cutting, bending, providing & binding with double 18 gauge annealed Iron wires, welding if necessary, wastage etc. complete as directed. Payment will be made on the weight basis for the length converted into weight by using standard IS Coefficient. (Having yield stress not less than 415 N/mm <sup>2</sup> ).	M.T.	50		
<b>3.00 Plastering &amp; Painting Work</b>					
3.01	Providing and applying 25mm thick water-proof cement plaster in CM 1:3 with top cement slurry finishing at the rate of 4.4 kg per Sq.M, at all levels using water proofing compound of Pidiproof of Pidilite Industries or equivalent approved quality as per manufacturer's specification. Rate includes necessary scaffolding, curing, hydraulic testing etc. complete as directed by Engineer-In-Charge.	Sq.M	331		
3.02	Providing and applying 50mm thick Screeding in Drain with CC (1:2:4) finish with using cement slurry on concrete surfaces etc. including curing etc. complete as directed by Engineer-In-Charge.	Sq.M	125		
3.03	Finishing wall with water proofing cement paint of approved shade, on any surface (3coats) to give an approved brand or manufacture (Super Snowcem or equivalent) and of required even shade. Including thoroughly brushing the surface to remove all dirt and remaining all loose powdered materials, scaffolding, all heights, curing, primer if required, etc. complete as directed by Engineer-In-Charge.	Sq.M	1432		

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<b>4.00</b>	<b>Drainage pipe Work</b>				
4.01	Providing and laying non pressure reinforced cement concrete Hume pipe of approved NP2 class quality including excavation of trenches, Road cutting if required, laying the pipes as per layout and drawing, for pipe sleeve below road / plinth, filling the joints with stiff mixture of cement mortar (1:1) and jute, curing, testing the pipe and refilling the trenches etc. complete as directed by Engineer-In-Charge.				
	(a) Hume pipe 300 mm dia	R.M	10		
	(b) Hume pipe 250 mm dia	R.M	50		
4.02	Supplying and fixing <b>C.I. rung</b> from 16 dia Rods, outside from surface 300x150mm wide, embeded in RCC as per details in proper position in line level etc. complete.	No	17		
4.03	Providing and fixing 150mm wide, 4-5mm thick, central bulb, PVC <b>water stopper</b> confirming to IS 12200-1987 of fixopan or approved make and design in proper alignment at construction joint, joining as per Suppliers recommendation complete as per direction of Engineer-In-Charge.	R M	16		
<b>Total Amount</b>					
<b>VAT * @ % on Total Amount</b>					
<b>SERVICE TAX * @ % on Total Amount</b>					
<b>Final Amount inclusive of all taxes &amp; Duties</b>					

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Signature of Bidder along with Company Seal

## Schedule Of Quantity - Mechanical Works

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1	2	3	4	5	6
1	Supply, Installation, Testing and Commissioning of the CS valves with all necessary fittings such as nuts, bolts, gaskets complete with adequate no. of supports, puddle plate etc. The pipes shall be fully welded and flanges shall be used as per standard engineering practices. The pipe paint shall be colour coded as per IS standards.				
<b>1a PIPE</b>					
	150 NB SCH 40	Rmt	16.00		
<b>1b PUDDLE PLATE</b>					
	6 mm Thk.	Kg.	30.0		
<b>1c FLANGE</b>					
<b>COMPANION FLANGES (SORF)</b>					
	150 NB 150#	Nos.	12		
<b>2 VALVES</b>					
<b>2a GATE VALVES 150 #</b>					
	150 NB	Nos.	6		
<b>3.00 Structural Steel Work</b>					

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1	2	3	4	5	6
3.01	Providing & laying for fabricating, erecting, fixing in position and connecting, MS structural work in pipe rack, cable rack, bracing, platform, stairs, angle post, pipe support, gates fencing post. Including bolts, nuts, washers, check nuts, welding electrode. Electrode brand required is ADVANI or ESAB or D & H make. Including transporting of materials to work site, loading & unloading of material, cutting, welding (shop and site), bolting wherever necessary etc, including surface claning, grit blasting, applying "Synthetic Enamel Paint" on structural steel surface, Asian, Berger or equivalent approved make, applying zinc phosphate primer coat in (DFT 40 microns), intermediate coat of synthetic micaceous iron oxide (MIO) pigment of 75micron, and final two coats of synthetic enamel paint (DFT 25 microns/coat) finish paint, staging, protection of floor, wastages, tools & plants, labour etc. complete as directed by Engineer-In-Charge. (Shop fabrication drawings shall be prepared by Contractor)	MT	16.60		
3.02	Providing & laying for fabricating and fixing in position MS insert / pipe sleeves in beam & slab. Such as nosing angle, corner angles of columns, plates, flats, tees, protection channels of loading / unloading dock, provision for pipe hangers, pipe sleeve & plate in foundation bolts, supports, brackets and monorails frame around cut-out etc. as per drawings and specifications, in true line and level for embedding into permanent works at the time of casting of RCC, brick masonry works including making necessary template, shuttering, welding, chipping of existing RCC work to weld with existing reinforcement or fixed with anchor fastener to existing structure, grinding including surface cleaning, applying of 2 coats of Synthetic Enamel (DFT 25micorm / coat) paint over coat of 2 coats zinc Phosphate (25micron/coat) primer (Shop and Site), etc. complete as directed. The payment will be made on weight basis of the inserts.	MT	0.5		

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1	2	3	4	5	6
3.03	Providing, fabricating and fixing in position, MS round pipe sections as per IS 1161 for Pipe hand railing for Stairs, Balconies, canopy, parking sheds, etc. from structural steel sections like mainly MS pipes, flat, MS plates, toe plates, square bars etc. as per architect's details including cutting welding, grinding to smooth surface of all works, anchor bolts, grouting, 2 coats of synthetic enamel paint over coat of zinc phosphate primer etc. complete as directed by Engineer - In - Charge at all levels. (Material shall be supplied by Contractor)	MT	4.2		
3.04	Providing and fixing in position MS grating 25 / 30mm thick- in walk ways, platforms, stairs etc. with main bars 25/30mm x 5 mm @ 32 mm c/c etc. and cross bars 8mm dia mild round/ square @ 100 mm c/c etc. press cutting and welded construction including fixing clips, nuts, bolts, including synthetic enamel paint over coat of zinc phosphate primer over blast cleaned steel surfaces, etc. complete as directed by Engineer-In-Charge.	MT	7.2		
3.05	Providing and fixing in position of MS Air Vents 100mm dia and approximate 1 M long MS pipe including, cutting, bending, puddle plates, lugs, fixing, Outside pile hole covered with Wiremesh jali, embedding in position, painting with synthetic enamel paint over coat of primer, etc. complete as Directed by Engineer-In-Charge.	No	2		
3.05	Providing and fixing <b>Light duty single seal square C.I. Manhole cover</b> with C.I. frame confirming to IS 1726 (PartVII/Sec-2) - 1974. Size of 610mmx610mm clear opening and total weight of 38 kgs. of cover & frame, including fixing in top slab & grouting the same with cement concrete etc. complete as directed by Engineer-In-Charge.	No	1		
<b>4.00 Fencing &amp; Gates</b>					



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4.01	Providing and Fixing G.I. chain link fencing 50x50mmx3mm thick with 3mm thick three tension wires, fixed from 50mm above FGL, on vertical steel posts at 2.5m c/c, fixing with vertical 10mm dia MS rod & J hooks at 300mmc/c. etc. as per detailed drawings and as directed.	Sq M	788		
4.02	Providing & fixing two strend 12x14 G barbed wire at top of MS post of chain link fencing work, 12x14G double barbed stranded with 4 point barbs at 85mm apart, fixing to angle post at 2.5m c/c, etc. complete as directed.	Rmt	972		
<b>Total Amount</b>					
VAT * @                      % on Total Amount					
SERVICE TAX * @                      % on Total Amount					
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### Schedule Of Quantity - MISC

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1.00	Breaking, demolishing & removing existing Brick / Block masonry dyke walls, any size / thickness including plaster, painting, removing debris out side of terminal / site or as directed by Engineer-In-Charge.	Cu.M	1140		
2.00	Breaking, demolishing & removing existing flooring insides the dyke walls any size / thickness including removing debris out side of terminal / site or as directed by Engineer-In-Charge.	Cu.M	1570		
3.00	Dismantling of MS structural works like trusses, purlin, column, frames for louvers, bracing, ladders, cage ladders, sag rods, cable racks, pipe bridges, monorail, walk ways, chequered plates, grating along with all accessories viz nuts, bolts, cleats, gussets, suspenders etc.	MT	5		
4.00	Relocation of existing earthing strip as per required depth and Providing and fixing if damage during the removal of existing flooring with required size as per existing, jointing, as per layout etc. complete as directed by Engineer-In-Charge.	Job	lumpsum		
<b>Total Amount</b>					
VAT * @                      % on Total Amount					
SERVICE TAX * @                      % on Total Amount					
<b>Final Amount inclusive of all taxes &amp; Duties</b>					

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