

CIVIL WORK OF RAO CAMPUS, RAJKOT

ABSTRACT

Sr #	Item	Qty	Unit	Rate Rs.	Amount Rs.
A	DISMANTALLING WORK				
1	Dismantalling of the existing buildings / WALL	103.00	Sqm		
	Dismantling work to be done manually / by mechanical means, without damaging surrounding surfaces, including stacking useful material and disposal of unserviceable material with all lead and lift as per direction of Architect / Str. Engineer. The rate includes necessary / appropriate type of scaffolding etc. complete. All dismantalling work includes the surface finishing i.e. plaster etc. complete. carting away debris / rubbish out side Bank's premises with all lead & lift and disposing at authorized dumping yard etc. complete as directed. The contractor shall take the useful material to be giving buyback offer & these materials shall be sold only to Reistered buyers & shall submit the certificate for IGBC rating purpose. RCC and have doors and windows, the same can be taken by the contractor as scrap. Also the other brickbats & other debries shall be used in the filling of the foundation excavation till the ground level.				
B	NEW CIVIL WORK				
1	Providing and constructing under ground water tank.-(100000Litr.)				
	AS PER STRUCTURAL DETAILS IN DRAWING				
a	Excavation for foundation of columns, ground beams, reartining wall etc in all kind of soils & depth up to 2.50 mtr. Depth.	130.00	Cu.Mtr.		
	Excavation for foundations, substructures, trenches, columns, ground beam, sumps, pts etc by mechanical means (Hydraulic excavator/Manual means in foundation trenches for all leads & up to the following depths vbelow natural ground level in sol types such as black cotton soil, weatghered stone/rocks, boulders, slaty clay, debris etc with all lift & lead including de-watering the excavated pits, necessary shoring, strutting and disposing the excavated material outside the premises to a place arranged by the contractor of his owm, dressing, levelling compaction etc complete.				
	DSR -1 (2.7.1)				
b	P & L RCC in various works - RCC M25 in footings, plinth beams, copings, Columns, Lintel, Sill & Sides, Chhajjas, beams, slabs, landings, shelves, balconies, staircases, walls, shear walls etc/ UNDER GROUND WATER TANK for all floors and all heights as described below:	42.00	Cu.Mtr.		
	Providing and Laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade (RMC - M 25) for reinforced cement concrete work for all levels, leads, shapes, sizes & quantities, including pumping / lifting of concrete to site of laying including the cost of centring, shuttering, scaffolding, staging, vibrating (needle vibrator), compacting, finishing, curing etc. complete but excluding P & L of Reinforcement. The item also includes for adding plasticizer / SBR Cement slurry 1:1 {S.B.R (FOSROC or equivalent (as per IS 9103) : 1 Cement} of approved brand as required to achieve desired workability of the concrete, to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Str. /Engineer-in-charge.				
	All work in foundation & super structure is the scope of this work. (Only good quality steel plates, Custom made steel / plywood shuttering panels shall be used. Good quality wooden planks may be permitted at very limited places. Prior approval of Architects / Bank will be required). (Note: The shuttering to be used for all slabs shall be of good quality to get good quality of slab finish. (Uneven or poor finished slab bottom shall be plastered by the contarctor at his own cost.)				
	DSR -1 (5.33.1)				

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C	MANHLOE	2.00	NOS		
	The item includes RCC slab with heavy duty C.I. manhole cover & frame of size: 600x450 mm. The sump & CI steps shall be provided for maintenance purpose. total weight of cover and frame to be not less than 38 kg. (weight of cover 23 kg. & weight of frame 15 kg.)				
d	Providing and Laying in position - PCC (M -15) 1:2:4	103.00	Cu.Mtr.		
	Providing and Laying in position for all sizes & shape of plain cement concrete PCC (M-15) 1:2:4 (1 Cement : 2 Coarse Sand 4 Graded stone aggregate 20 mm nominal size) of 130 mm thick for all leads & levels as base for foundations, columns, ground beams flooring etc including the cost of compaction, centring, staging, curing and shuttering etc complete for all work up to plinth level.				
	DSR -1 (4.1.3)				
E	P & L BRICK MASONRY	1.00	Cu.Mtr.		
	Providing and constructing brick masonry in CM 1:6 (1 cement & 6 coarse sand) with approved first class bricks having minimum crushing strength of 35 kg/sq.cm including scaffolding, racking out the joints, curing etc. Complete as directed by Engineer - in charge. For Wall at all levels below and upto plinth level.and above plinth level all heights				
	DSR -1 (6.4.3)				
F	P & L WATER PROOF PLASTER	365.00	Sqm		
	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 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design				
	finished with trowel on the R.C.C Slab, even in true line, level and plumb including necessary scaffolding, racking of joints, hacking of base surface for proper bonding, priming, curing etc. complete including, providing & fixing in position 300 mm wide approved 24 SWG GI chicken wire mesh at the identified junction of masonry and concrete as directed. The contractor shall correct any exposed steel or uneven surfaces before taking up the plaster work without any extra cost				
G	Providing & Laying TMT Reinforcement Steel for RCC work- (5.22.1)	3425.00	Kgs.		
	Providing, Supplying & Fixing in position Fe500 TMT Steel Reinforcement bars (IS:1786) of all sizes & of approved make at all levels & places for all type of RCC work for footings, beams, columns, walls, lintels, pardi etc. including straightening, cutting, bending, making dowels, hooks, placing, tying in position using 16 SWG soft annealed steel wire, readymade cover blocks, spacers, chairs etc. complete.				
	(Reinforcement including approved lap, chairs etc. but excluding binding wire, actually placed at site as per drawing & approved by architects only shall be measured for payment). The rate includes the cost of binding wire				
	AS PER STRUCTURAL DETAILS IN DRAWING				
	DSR -1 (5.22.1)				
	total of above				
2	FABRICATION WORK				
	Fabrication Work - M.S.				
2.1	M.S. Grill. ON COMPOUND WALL	25.00	Sqm		

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	Providing and fixing MS Grills for for compound walls etc. using Vertical Post :- 40 x40x 3mm MS Pipe at 9" C/C bothways fixed with Horizontal :- 40 x20 x 3mm MS Pipe & other required supports as per the instructions of the architects. The rate shall be inclusive of all fittings such as 150 mm long hold fast, 3 nos. on each vertical sides fixed in CC 1:2:4 & sides & bottom shall be fixed firmly with 75 mm long screws etc. complete. The Grill shall be finsihed with 2 coats of anti rust paint & min. 2 or more coats of Satin finish enamel paint				
2.2	M.S. MAIN GATE - SLIDDING	9.00	Sqm		
	Providing, fabricating & fixing in position gate as per detail.6" x 3" x 2NO M.S.C-CHANNEL,WELDED SQUARE BOX FOR PILLAR conforming to relevant IS with welded joints. The Gate frame shall be made of medium duty MS rectangle/square section (made out of 4" x 4" M.S. SQUARE FRAME.The interim material used is of flats,(1 1/2" @ 8 mm 3.5 c/ c) supported on 1 1/2" m.s. round pipe for track. square bars / hollow sections, angles, bends, elbows. The gate will have sliding chanel mechnisum system for horizontal movement for full opening. The rate includes two coats of synthetic enamel paint over one coat of approved steel primer including approved quality sliding wheels, locking device, necessary fixtures, clamps etc.for gate frame as well. The rate shall be inclusive of fixing of gate in position to RCC base of 18" x 18" 12" for the m.s. pillar. The gate shall be installed in position for proper function.				
2.3	PUMP ROOM - STRUCTURAL STEEL STRUCTURE WITH GALVANISED IRON CORRUGATED SHEETS				
2.3.1	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	112.00	Sqm		
	DSR -1 (12.5)				
2.3.2	Structural steel work(2" X 2' vertical post, with internals 2" x 1-1/2" & 1" x 1" perlin) 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.Fabrication work (@ 5KG PER SQM-100 SQMTX 5 KG)	500.00	Kgs.		
3.1	PAVER BLOCK	520.00	Sqm		
	P & L 60 mm thick factory made cement concrete interlocking paver block (short blast) of M-35 grade made by block making machine with strong vibratory compaction, of approved size, design,shade, color & shape, laid in required colour (2 color combination) and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.				
	DSR - II (16.68)				
3.2	P & L KERB STONE	127.00	Rmt		

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	Providing and laying Kerb Stone 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 be 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). (Make-Alcock, Vyara, Pavit or eq.)				
	DSR - II (16.69)				
3.3	P & C C.C. Pavement road	380.00	Sqm		
	Providing and laying C.C. pavement (Tremix -Vacuum dewatered concrete flooring) 125 mm thick of mix M-25 with ready mixed concrete from batching plant. including panel shuttering. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. in all basement parking areas and basement driveways.. Needle vibrator for compaction and low water : cement ratio shall be used. This shall ensure high compressive as well as tensile strength, abrasion resistance and prevent shrinkage of concrete. Floor hardener may be used @ 3kg / Sqm. Final brushing shall be made before the floor top becomes hard. Curing shall be carried out for minimum period of 1 week. Steel reinforcement will be paid under separate items of this boq.				
	<u>Providing, Supplying & Fixing in position Fe 500 TMT Steel Reinforcement bars (IS:1786) of 10 mm bars, 200 mm c/c bothways. Steel considered 6.25 kg / sq.mt (SAIL, JSW, TATA STEEL OR EQUIVALENT)</u>				
	<u>STEEL WILL BE PAID IN ITEM NO 1 G</u>				
4.0	PARKING SHED	25.73	Sqm		
	Cutting & removing of 6 mm th. Poly Carbonate Shed with one side supported on 4" dia M.S. Pipe, The Roof is Supported On 3" X 1 1/2" Ms frame Around The Peripheral in two layers forming a truss also at every 4' length & 2" X 1" Pipe At Every 2' C/C. 12 mm ms bar is fixed between two layers to form a truss & can be kept at safe area to be reused.				
5.00	Providing PVC Over head water tank	5000.00	liter		
	Providing and Fixing 3 or 4 layered white color PVC WATER TANK of required Capacity of Sintex, Apex Easyfit or Equivalent make having food grade plastic, 100% UV stabilised tanks and antibacterial including cost of all brass fixtures & fittings required as per given detail for inlet and outlet connection etc., all completed as per directed by E.I.C. (Capacity : 5000 Ltr)				
6.00	MAKING OPENING WIDER	7.00	Sqm		
	P & L Granite in cladding on lift wall				
	<u>OPENING IN EXISTING LIFT WALL, MAY REQUIRED TO WIDEN TO FIX THE LIFT DOOR, BY MAKING DISMANTLING OF BLOCK MASONARY WALL. TRY TO MINIMISE DIAMANTLING OF EXISTING GRANITE CLADDING</u>				

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	Providing and fixing lift cladding with granite by using araldite, stainless steel pins it required including scrapping the surface and making the surface preparation for cladding. Also include for finishing the joints and exposed edges shall be polished and finished with white cement slurry admixed with the approved shade pigment to match the shade of tiles as per inst. of Architect etc., complete including champhered edges & V grooves complete as per design. Including cost of 20 mm thick backing coat in C. M. 1 : 4.				
7.00	Providing & fixing fire rated metal door(RADIANT) OR EQUIVELENT. size ; 3'6" x 7'	1.00	no		
	'Radiant' Fire Resistant Door Single / Double Leaf Hinge Type (2 Hours Fire Rated)1.20 mm thick G.I. Sheet cladded 46mm thick shutter with infill Material Mineral Wool (Density – 96 Kg/M3) complete with G.I. frame (Single Ribet – Frame Profile100 x 57mm) made from 1.60mm thick G.I. Sheet & Fixing arrangements AS PER BS 476 (PART- 20 & 22); IS: 3614(Part-II) for Integrity, Stability. Paint Finish. (Accessories Exclusive).				
	Accessories:				
	S.S. Ball Bearing Hinges				
	Dead Lock with Cylinder				
	S.S. "D" Type Handle (1 Set)				
	Heavy Duty Door Closer				
	GLASS DOORS AND PARTITIONS				
	PANELLING WORK				
	TOTAL OF ABOVE				