

**TENDER FOR PROPOSED CIVIL WORKS OF CENTRALIZED DRINKING WATER UNIT (RO PLANT) AT THE ROOF OF LHO BUILDING, LHO
BHOPAL**

<u>S.NO</u>	<u>Description of Items</u>	<u>Qty</u>	<u>Unit</u>	<u>Rate</u>	<u>Amount</u>
CIVIL WORKS:					
1	Dismantling works				
	Dismantling of existing Brick work, cement concrete of any grade, including steel cutting and proper placing of debris at site and carting of debris to a place approved by the Bank complete in all respects as directed				
(a)	R.C.C	5.00	Cum		
(b)	Bricks masonry	5.00	Cum		
2	Brick Masonry				
	Providing and constructing Brick masonry walls using locally available approved quality Bricks, well (Kiln/Chimney) burnt, uniform size and colour having average crushing strength not less than 35 kg/cm ² for walls, shaft walls, parapets, drains, manholes, trenches etc. in proper line, level and plumbing including striking out / raking out joints, curing, necessary scaffolding, etc. complete at all heights and levels as per the approved drawing and as per instructions of the Architect / Engineer-in-charge in cement mortar 1:4	5.00	Cum		
3	Plastering				
	Providing and applying 12 mm avg thick smooth finish cement plaster in cement mortar 1:4 to walls using fine sand. Rate includes providing chicken to all joints of RCC members with Brick walls in all positions in line, level & plumb at all levels and heights with necessary scaffolding, cleaning of surfaces, raking out joints, roughening of surfaces, curing etc.	60.00	Sqmt		
4	Putty				
	Preparing wall surface by rubbing with sand paper, removing all dirt, smoke, grease, loose plaster and existing paint, putty reeve as directed by the Bank and thereafter applying two or more coats of Birla white putty to all the walls duly rubbed with sandpaper to ensure smooth finished plain surface ready for applying plastic emulsion paint. The rate to include all necessary scaffolding etc complete in all respects as directed by the Bank.	60.00	Sqmt		
5	Painting				

(a)	Providing and applying two or more coats of approved quality emulsion paint of approved manufacturer like Asian, Berger, Dulux or equivalent as approved by the Bank of approved colour, shade and patterns to the wall including necessary scaffoldings complete in all respects as directed.	60.00	Sqmt		
(b)	Providing and applying two or more coats of Apex Ultima or equivalent make weather proof exterior emulsion paint of required shade after thoroughly brushing the surface free from mortar dropping and other foreign matter, including one or more coats of primer, applying coats of Birla White putty including preparing the surface even and sand papered smooth etc. necessary scaffolding at all level complete in all respects as directed.	80.00	Sqmt		
6	Plain Cement Concrete	80.00	Sqmt		
	Providing and laying machine mix PCC (Plain cement concrete), 1:2:4 (1 Cement :2 Sand : 4 Coarse aggregates) of avg. 65 mm thick in the floors of the shed using 53 grade OPC cement and 20mm down graded nominal size wellgraded aggregate including mixing, transporting, laying, compacting and finishing the surface in line, level and plumb as per requirement and curing etc., including the cost of necessary centring, shuttering, complete in all respects at all leads and lifts as per specification or as directed by Engineer in charge.	2.00	SQM		
7	M.S Fabrication work for Shed				
(a)	Providing and fixing at site M.S fabricated steel structure made out of M.S sections, I-section, C-Channel as specified by the Bank in the drawings / details for roof truss, side cladding, purlin, grill door, retrofitting works etc. made out of ISA, Sq. M.S Bar, flat, Square and round M.S pipes, ISMC, ISMB section etc. supported on concrete bed blocks casted over Brick walls as specified in the details. The structure shall be welded by arc welding of superior quality using best quality electrodes, drilling etc. hammering excess deposits and then finishing with surface grinders. The rates shall includes the cost of anchor bolts, washer, nuts, cost of scaffolding, two or more coats of painting of superior quality of primer and then two or more coats of enamel paint of approve made or shade complete in all respects as directed by the Bank.	4500.00	Kg		

(b)	Providing, fabricating and fixing in position of 50mm thickness PUF/ PIR Sandwich Panels with prepainted Galvanised sheets on both faces, Top sheet 0.5 mm and bottom sheets 0.5 mm thick prepainted with PUF insert 50 mm thick actual width 1.06 m but effective width 1.00 m with tongue and groove arrangement for water tight arrangement. The top sheet shall be corrugated profile with minimum core thickness 40 mm of green colour and bottom sheet of off white colour with groove pattern 2 mm thick 62.5 mm c/c. It shall be fixed over existing M.S structure purlin with self drilling self tapping screws of suitable length and superior quality. The sheets shall be painted with polyester primer 5 micron, non-toxic food graded standard polyester finish paint. RAL 9010 colour-20 micron, resistant to saline mist and resistant to moisture. The rates shall include the cost of all materials, wastages, cost of scaffolding , etc complete in all respects as directed. The rate shall also include accessories completed in all respects as directed.	80.00	Sqmt		
8	Providing and fixing colour anodised, aluminium ventilator with extruded built up section as per above specification of wall thickness not less than 1.5 mm and approved make glazed with 4 mm thick opaque glass louver 100 mm wide	4.00	Sqmt		
9	Providing and fixing heavy duty CP brass Angular stop cock with all fanges complete in all respects as directed.	60.00	Nos.		
10	Bib Cock with Flange : Providing and fixing heavy duty 15 mm dia CP brass Long Body Bib Cock with wall flange complete in all respects as directed by the Bank	10.00	Nos.		
11	PVC Pipes: Supplying and fixing quality of rigid SWR (Type-B) PVC Pipes (All vertical pipes on wall surfaces used Pushfit and Horizontal surface use solfit pipe and fittings) of Ashrivad make or equivalent, jointing the pipe and including required fittings (Bend elbow, Y-Shape with collar, sockets etc) with suitable solvent as per manufacturers specifications, laying the pipes under floor, ceiling or on the walls as per the required gradient including providing necessary support clamps, scaffolding etc. conveying the materials to all the floors making holes in masonry or concrete cutting the pipe to required length, testing to a head of 1.8 m for horizontal pipes and for vertical pipes by filling with water etc. complete in all respects as directed.				
a)	40/50mm dia	50.00	Rmt		
b)	63 mm dia	20.00	Rmt		
c)	75 mm dia	50.00	Rmt		

12	UPVC Pipes: Supplying and fixing in position Unplasticized Polyvinyl Chloride (CPVC) SDR-11 pipes and fittings having thermal stability for hot and cold water supply including all UPVC plain and brass threaded fittings i/c fixings the pipes with clamps at 1.0 metre spacing. This rate includes jointing of pipes with one step UPVC solvent cement, cost of cutting chases in wall / floor etc. and making good the surface for cocealed piping works etc complete in all respects as directed by the Bank.				
a)	20 mm dia. NB	850.00	Rmt		
b)	25 mm dia. NB	250.00	Rmt		
c)	32 mm dia. NB	200.00	Rmt		
d)	40 mm dia. NB	550.00	Rmt		
13	CPVC Ball Valve: Supplying and fixing CPVC schedule 80 BALL VALVE approved quality, including necessary fittings and required for connections: Note: Brass Threaded (two side)				
a)	For 20 mm dia. NB	5.00	Nos.		
b)	For 25 mm dia. NB	10.00	Nos.		
c)	For 32 mm dia. NB	10.00	Nos.		
d)	For 40 mm dia. NB	10.00	Nos.		
14	Providing and fixing heavy duty 15 mm dia. CP brass Long Body Bib Cock with wall flange complete in all respects of make Hindware/Parryware or equivalent as pproved by the Bank	50.00	Nos.		
15	Providing and fixing 100 mm dia heavy quality approved make PVC nahani Trap with 75 mm dia outlet, embedding the trap in cement concrete using 1:3:6 mix with 20mm metal complete including joining effluent pipe etc and fixing 125 mm dia CP Brass grating etc. complete in all respects	25.00	Nos.		
16	Providing and Fixing Factory made 100% solid wood plastic composite (WPC) door frame made from plastic composite (single extruded process) material with density 780 kg / cbm. Door should be waterproof, termite proof, fire resistant and having good screw holding capacity, single rebate complete in all respects as directed.	5.00	Rmt		

17	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58- 60 (Suspension Grade),calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge),minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge.	2.50	Sqmt		
18	Providing and laying of R.C.C M-25 grade of concrete in superstructure at all heights including formwork, reinforcement, mechanical compaction by approved means and curing at all heights, complete in all respects all ditected. Concete cubes are to taken ate site and reports to be furnished as per the direction of the Bank	3.00	Cum		
19	Providing and removing necessary scaffolding upto fifth floor as required height apprx. 25 metre from the ground level.	4.00	Nos.		
20	Granite: Providing and fixing balack jet Granite 16-18 mm thick machine cut mirror polished for water cooler area, partition and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar (1:4) bed with joints treated with white cement, mixed with matching epoxy touch up including rubbing, curing, moulding and polishing to edge.	80.00	SQM		
21	Providing and fixing verified tiles Multi/ Doubly Charged (Minimum top layer thickness 2.0mm) wall tiles 600 X 600 mm of 1st quality conforming to IS 15622 approved make in all clour shade laid on 12 mm thick bed of cement mortar 1:3 (1 Cement: 3 Sand) jointed with grey cement slurry@3.3 kg per sqmt including pointing the joints with white cement and matching pigments etc. complete in all respects as directed.	200.00	Sqmt		
	TOTAL				

GST EXTRA AS APPLICABLE

Seal and Signature of the Vendor