

Tender Inviting Authority: Staff Officer (Civil) Argada Area

Name of the Work / Contract No: WORKS AND SERVICES:- Construction & installation of RO Plant (1 no.) for supply of treated drinking water at Ward no. 15 as a part of NCRAP Scheme under Sirka Colliery, Argada Area." (e-tender 27 of 24-25)

	Category of Services (To Be Selected by Department)	Category of Bidder (To Be Selected by Bidder)	To Be Entered by Department			
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ITC Not Available	Works Contract	Bidder's Status (Mandatory)	Rate of GST (in %)	Total GST(in Rs.)	GST to be Paid By Bidder (in Rs.)	GST to be Paid By CIL/Subsidiary (in Rs.)
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Name of the Bidder/ Bidding Firm / Company :		Select	18	0.00	0.00	0.00
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PRICE SCHEDULE
 (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8
1	PART-A (RO Plant System) Installation and commissioning of RO Plant. Supply, installation and commissioning of the treatment unit with all accessories (including RO, UV, Sand Media Filter, Activated Carbon Filter, Antiscalent Dosing Syestem and Ph Dosing System etc. of treatment Capacity 2000 LPH) with AUTOMATIC DIGITAL CONTROL, all the treatment units must consisting of Container of Stainless Steel of grade 304 and in confirmation with specification and guidelines stipulated in the NIT with 01 years warranty at Site	1.00	Each	0.00		0.00	INR Zero Only
2	Installation and commissioning of IR plant for 2000 LPH. Supply, installation and commissioning of the treatment unit with all accessories including Iron Specific Resin 50 Ltrs-PDW, 1-1/2" PABBLES (Per 50 Kg Bag)-PDW, 16 X 65 (Pentair)-4" TOP & 4" Bottom,20 NB Multiport Valve For Filter, 20 NB MP Valve Top & BTM Strainers -RO20. NIT with 01 years warranty at Site as per direction and approval of Engineer-in-Charge.	1.00	Each	0.00		0.00	INR Zero Only

3	<p>Operation and maintenance for 02 years after successful installation, commissioning and 01 year of warranty period. Operation and maintenance of treatment unit including cost of spares Consumables (Including Vessel, Media, RO Membrane and Skid) required for a period of 02 years and cost of manpower for four quarterly Mandatory service (MS) Visits, Unlimited Breakdown Service visits, All electrical part- Panel, HPP LPP, dosing pump, UV system etc.</p>	2.00	Each	0.00		0.00	INR Zero Only
4	<p>Periodical testing of raw water and treated water and test reports to be made available online. Quarterly testing of Both Raw water and treated water and after approval by Engineer-In-Charge the test reports to be made available online.</p>	12.00	Each	0.00		0.00	INR Zero Only
5	<p><u>PART-B (Deep bore well)</u> Providing and fixing solar power operated 3 HP Submersible pump AC 3 Phase input (ISI) including 3 solar controller , PV array mono/crystalline cells 3000 watts peak minimum ak Vmodule) mounting structure and tracking system, electronics and ,MCB,Array junction box ,on off switch , interconnection cable ,complete as per MNRE approved technical specifications and direction of Engineer-in-Charge .</p>	1.00	No	0.00		0.00	INR Zero Only
6	<p>Supplying, Flat flexible submersible cable with, copper conductor, PVC insulated, and PVC sheathed . 3 core 4 sq mm.</p>	135.00	M	0.00		0.00	INR Zero Only
7	<p>Hydrological Survey for identification of aquifer layer</p>	1.00	No	0.00		0.00	INR Zero Only
8	<p>HYDT:Cost of drilling 225mmX165mmX125meter deep bore well in all kinds of soil and rock in rural area for installation of pump set with Hydraulic DTH Rig area for installation of pump set with Hydraulic DTH rig machine, all complete including supplying all materials tools, drilling rig, Air compressor and equipments, as well as fuel, lubricants and cost of transportation of rig machine and other vehicle up to the site. (a) from 0-50 meter</p>	50.00	Mtr	0.00		0.00	INR Zero Only

9	HYDT: Cost of drilling 225mmX165mmX125meter deep bore well in all kinds of soil and rock in rural area for installation of pump set with Hydraulic DTH Rig area for installation of pump set with Hydraulic DTH rig machine, all complete including supplying all materials tools, drilling rig, Air compressor and equipments, as well as fuel, lubricants and cost of transportation of rig machine and other vehicle up to the site.(b) 51.00M to 125.00M.	75.00	Mtr	0.00		0.00	INR Zero Only
10	HYDT: Cost of drilling 225mmX165mmX125meter deep bore well in all kinds of soil and rock in rural area for installation of pump set with Hydraulic DTH Rig area for installation of pump set with Hydraulic DTH rig machine, all complete including supplying all materials tools, drilling rig, Air compressor and equipments, as well as fuel, lubricants and cost of transportation of rig machine and other vehicle up to the site.(c) 126.00M to250.00M	100.00	Mtr	0.00		0.00	INR Zero Only
11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge. 200 mm nominal size dia aving minimum wall thickness 5.40 mm	30.00	Mtr	0.00		0.00	INR Zero Only
12	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: (23.13.3) 200 mm dia	1.00	No	0.00		0.00	INR Zero Only
13	Providing & fixing Rigid u-PVC Column pipe 50 mm outer dia. Conforming to IS:4985.	110.00	Mtr	0.00		0.00	INR Zero Only
14	Providing and fixing M.S. clamp of required dia to the top of casing / housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.23.14.3 200 mm clamp	1.00	No	0.00		0.00	INR Zero Only
15	Labour charged for lowering of 100m PVC pipe, submersible motor, pump, cable adopter etc. with testing of electric, hekper etc all complete job.(Analysis rate)	1.00	Job	0.00		0.00	INR Zero Only
16	Supply of Plastic rope of dia. 20mm.	120.00	M	0.00		0.00	INR Zero Only

17	PART-C (Room for RO Plant) Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed within a lead of 50m.	9.58	Cum	0.00		0.00	INR Zero Only
18	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	1.48	Cum	0.00		0.00	INR Zero Only
19	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	2.16	M3	0.00		0.00	INR Zero Only
20	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level 5.1.2 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.14	Cum	0.00		0.00	INR Zero Only
21	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering 5.2.2 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.75	Cum	0.00		0.00	INR Zero Only
22	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.50	Cum	0.00		0.00	INR Zero Only
23	Brick work with F.P.S. bricks of class designation 50 in foundation and plinth in :6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	4.15	Cum	0.00		0.00	INR Zero Only
24	Brick work with F.P.S. bricks of class designation 50 in superstructure above plinth level upto floor level in all shapes and sizes in : 6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	11.82	Cum	0.00		0.00	INR Zero Only

25	Centring and shuttering including strutting, propping etc. and removal of form for removal of form for: 5.9.1 Foundations.: footings, bases of columns etc. for mass concrete.	20.68	Sqm	0.00		0.00	INR Zero Only
26	Centring and shuttering including strutting, propping etc. and removal of form for removal of form for: 5.9.3 Suspended floors, roofs, landings, balconies and access platform.	18.31	Sqm	0.00		0.00	INR Zero Only
27	Centring and shuttering including strutting, propping etc. and removal of form for removal of form for 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.	15.80	Sqm	0.00		0.00	INR Zero Only
28	Centring and shuttering including strutting, propping etc. and removal of form f:or removal of form for 5.9.19 Weather shade, Chajjas, corbels etc., including edges	2.16	Sqm	0.00		0.00	INR Zero Only
29	Centring and shuttering including strutting, propping etc. and removal of form for removal of form for :5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts	9.00	Sqm	0.00		0.00	INR Zero Only
30	12 mm cement plaster of mix :13.1.2 1:6 (1 cement : 6 fine sand)	93.72	Sqm	0.00		0.00	INR Zero Only
31	6 mm cement plaster of mix : 13.16.1 1:3 (1 cement : 3 fine sand)	21.91	Sqm	0.00		0.00	INR Zero Only
32	Providing and fixing of M.S fan clamp type 1 or II of 16 mm dia. M.S bar bent to shape with hooked ends in R.C.C slab ,beams during laying including painting the exposed portion of loop ,all as per standard design complete	1.00	Each No	0.00		0.00	INR Zero Only
33	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.5.22.6 Thermo-Mechanically Treated bars	251.00	KG	0.00		0.00	INR Zero Only
34	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.5.22A.6 Thermo-Mechanically Treated bars	340.00	KG	0.00		0.00	INR Zero Only
35	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	60.76	Kg	0.00		0.00	INR Zero Only

36	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete :11.41.2 Size of Tile 60x60 cm	13.69	Sqm	0.00		0.00	INR Zero Only
37	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.11.46.2 Size of Tile 600x600 mm	9.42	Sqm	0.00		0.00	INR Zero Only
38	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	53.89	Sqm	0.00		0.00	INR Zero Only
39	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer, of required shade and colour all complete:New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 pram/litre	53.89	Sqm	0.00		0.00	INR Zero Only
40	Finishing walls with Acrylic Smooth exterior paint of required shade :13.46.1 New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @2.20KG/10 sqm)	63.12	Sqm	0.00		0.00	INR Zero Only
41	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3 mm M.S. gusset plates at the junctions and corners,all necessary fittings complete, including applying a priming coat of approved steel primer.10.5.2 Using flats 30x6mm for diagonal braces and central cross piece	3.96	Sqm.	0.00		0.00	INR Zero Only
42	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.	6.16	Cum	0.00		0.00	INR Zero Only

43	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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately.):Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. minimum anodic coating of grade AC 15).	7.31	KG	0.00		0.00	INR Zero Only
44	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC / 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.) :21.3.1With float glass panes of 4.0 mm thickness	2.16	Sqm	0.00		0.00	INR Zero Only
45	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 PVC / neoprene gasket required (Fittings shall be paid for separately.) : Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. minimum anodic coating of grade AC 15)	7.35	Kg	0.00		0.00	INR Zero Only
46	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing top smooth.	8.40	Sqm	0.00		0.00	INR Zero Only
47	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : 13.61.1Two or more coats on new work	9.98	Sqm	0.00		0.00	INR Zero Only
48	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.40 mm nominal outer dia Pipes	40.00	Mtr.	0.00		0.00	INR Zero Only

49	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 25 mm nominal outer dia Pipes	40.00	Mtr.	0.00		0.00	INR Zero Only
50	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	6000.00	Ltrs	0.00		0.00	INR Zero Only
51	Providing and fixing brass bib cock of approved quality : 18.15.1 15 mm nominal bore	4.00	Nos.	0.00		0.00	INR Zero Only
52	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 18.17.1 25 mm nominal bore	2.00	Nos.	0.00		0.00	INR Zero Only
53	Total impact of GST for the purpose of CTC	1.000	Nos		0.00	0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					