

BOQ for one SITC & CMC of 01 System of DC Submersible Pump

Sl. No.	Item	Supply (S)/ Installation(I)/ Supply and Installation (S&I)/Others(O)	Unit	Quantity for 01 System
1	Installation Testing and commissioning of the SPV Panel with Pole and with Module Mounting Frames, DC Solar Submersible pump joining with Cable, HDPE pipe with all installation work and with transportation etc.	S&I	Set	1
2	Excavation for foundation upto 1.5 mts depth including sorting out and stacking of useful material and disposing the excavated stuff upto a lead of 50m. In Loose or Soft Soil or in Hard Murrum	I	Cubic Mtr	13.5
3	Providing and laying cement concrete 1:4:8 (1-cement : 4-corse sand : 8-hand broken stone aggregates/ graded brickbats 40 mm nominal size) and curing complete excluding cost of formwork in foundation and plinth (up to 10 ton)	S&I	Cubic Mtr	0.784
4	Providing & Laying controlled cement concrete and M200 and curing complete excluding the cost of form work and reinforcement for reinforced concrete work in (A) for Foundations, Footings, base of column and mass concrete (up to 10 Ton)	S&I	Cubic Mtr	1.728
5	Providing & Laying controlled cement concrete and M200 and curing complete excluding the cost of form work and reinforcement for reinforced concrete work in For Columns, Pillars, Posts and Struts upto floor two level (up to 10 Ton)	S&I	Cubic Mtr	1.112
6	Supply cutting bending, binding and placing in postion steel as per plan and design and as per ISS 2502 including cost of steel and bending wire for reserviour /structures only including lift upto 6mtr hight or deapth below GL for all diameter. Thermo mechanically treated (TMT) bars Fe-415 grade for all diameters to be used	S&I	MT	0.12
7	Purchasing & Supplying at site of works with railway freight, loading, unloading carting etc complete such as joints, channels, angles, iron rails etc	S	MT	0.956
8	M. S. Ladder Providing and fixing 50cm wide MS ladder fabricated from MS flats 10mmx 75mm with 20mm dia steel bar steps in double rows , @ 30cm C/C . The include stays of 10mm x 50mm flats fixed at 3mtr C/C with welding anchoring and 3 coats anticorrosive paints	S&I	Mtr	4
9	Labour charge for lowering laying fixing various size of M.S. Section such as joints channel, angles plates etc complete	I	Mtr	0.956
10	Distempering (Two Coats)with Oil Bound washble Distemper of Approved Brand and Manufacture and of required shade on wall surfaces/STORAGE Tank to give an even shade over and including a priming coat with alkali resisting primer of approved brand after throughly brushing the surface and other foreign matter and also including preparing the surface even and sand prepared smooth...	S&I	Sq Mtr	12.47
11	(a) Applying priming coat in new steel and other metal surface after and including preparing the surface by throughly cleaning , oil grease dirt and other foreign matter and scoured with brushes with fine steel wood scapers and sand paper with ready mix priming paint brushing red lead. (b) Painting two coates (excluding priming coat) on new steel and other metal surface with enamel paint brushing interior to give even shade including cleaning the surface of all dirt, dust other foreign matter.	S&I	Sq Mtr	43.44
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layer not exceeding 20 cm in depth consolidating each deposit layer by ramming and watering.	I	Cubic Mtr	10.3
13	Painting charges (Letter) Office Name - Prog.-Year	I	Set	150
14	Supply of Solar Module Mounting Structure As per Drawing	S	Set	1
15	Necessary Bar Fencing Surrounding SPV Module Mounting Structure with Single Gate & Name Plating etc. complete. i)Providing & fixing 1.20 mtr. High fencing with 2.0 mtr. Long M. S. angle posts 40mm x 40mm x 6mm & oil painting 3 coats fixed at 2.5mtr. c/c with five hirizontal lines & two diagonals of galvanized steel barbed wire weighting 9.38Kg per 100 mtr. Strained & fixed to posts with GI stakes including fixing the position ground with 0.5 M x 0.5 M.x0.5M block in C.C. 1:5:10 etc. complete.	S&I	Mtr	14

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16	Purchasing & Supplying at site of works with railway freight, loading, unloading carting etc complete such as joints , channels, angles,iron rails etc (for gate of wire fencing)	S	MT	0.06
17	Item No. 1 Supply at site of ISI mark rotational moulded polythelene water storage tank with close top with IS:12701/96 with ammendment No:1 The tank should be mfg from polythelene as per IS figlene 1 of IS : 12701-96 1) 3,000 lit. cap	S	No.	1
18	Providing & Supplying ISI mark GI Pipes medium duty with couplings incl. all taxes, insurance, transportation, freight charges, octroi, insp. Charges, loading, unloading, conveyance to site stacking etc. complete as per IS 1239/1990 a) 50 mm dia medium duty GI Pipes with coupling	S	Mtr	17.25
19	b)15 mm dia medium duty GI Pipes for air vent & Tap	S	Nos.	4
20	Providing & fixing 50 mm gun metal check or non return full-way wheel valve	S	Nos.	1
21	Supply of 32mm/50mm dia specials for Jointing pipe line as per actual requirement as under : a) 50 mm dia. G.I.Elbow	S	Nos.	4
22	b) 50 mm dia. GI nipple 3"	S	Nos.	2
23	c) 50 mm dia. GI nipple 6"	S	Nos.	2
24	d) 50 mm dia. GI Tee	S	Nos.	2
25	e) 50 mm dia C.I.Flange set with rubber packing	S	Nos.	2
26	f) 50mm dia. GI Union	S	Nos.	2
27	Lowering, Laying & jointing G.I.Pipes with G.I.specials of of following diameter in proper position in grade & alignment as directed by engineer-in-charge including conveyance at site of work, labour, giving hydraulic testing etc.complete a) 32mm dia medium duty GI Pipes.	I	Mtr	8
28	b)50mm dia medium duty GI Pipes	I	Mtr	18
29	Excavation for pipeline trenches including all safety provisions using site rails and stacking excavated stuff upto a lead of 90 mtr. clearing the site etc. complete for lifts & strata as specified. In all sorts of soil & soft murrum - upto 1.5 mtr depth	I	Cubic Mtr	54
30	Lowering, laying & jointing of HDPE pipeline and specials of following class and diameters(By butt fusion welding method) including cost of conveyance at site of works including cost of labour, material giving satisfactory hydraulic testing etc complete. a) 40 mm dia	I	Mtr	100
31	b) 63mm dia	I	Mtr	50
32	Supply of 15mm / 32 mm dia specials for Jointing pipe line as per actual requirement as under :1) 32 mm. GI Elbow	S	Nos.	3
33	2)32 mm. G.I. Nipple 6"	S	Nos.	3
34	3) 32 mm. Step Nipple 6"	S	Nos.	1
35	4) 32 mm. CI Plug	S	Nos.	2
36	5) 50 mm. G.I.Tee	S	Nos.	2
37	6) 50 mm. G.I.Coupling	S	Nos.	2
38	7) 50 mm. G.I.Step nipple	S	Nos.	4
39	8) 50 mm. G.I.Union	S	Nos.	4
40	9) 50 mm. X 32 mm. G.I.Reducer	S	Nos.	2
41	10) 40mm dia MS Pipe Clamp with fitting accessories	S	Nos.	1
42	11) Submersible coupler for jointing of sub pump & HDPE Pipe	S	Nos.	1
43	12) Teflon tape	S	Nos.	20
44	Refilling the pipe line trenches including ramming, watering, consolidating, disposal of surplus stuff as directed within radius of 3 Kms.	I	Cubic Mtr	53.72
45	Excavation for foundation upto 1.5 mts depth including sorting out and stacking of useful material and disposing the excavated stuff upto a lead of 50m. in loose or soft soil.	I	Cubic Mtr	0.15
46	Providing and laying cement concrete 1:2:4 (1 Cement, 2 Coarse sand, 4 Graded stone aggregate 20mm nominal size) and curing comp. Excl. cost of form work and reinforcement for reinforced cement concrete work in Foundations,footings base of columns and mass concrete (upto 10 Ton)	S&I	Cubic Mtr	0.4

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47	Providing & Supplying ISI mark GI Pipes medium duty with couplings incl. all taxes, insurance, transportation, freight charges, octroi, insp. Charges, loading, unloading, conveyance to site stacking etc. complete as per IS 1239/1990 - 15mm dia. Medium duty GI pipes with coupling.	S	Mtr	5
48	Providing & supplying of Chromium plated Brass bib tap 15 mm dia	S	Nos.	5
49	Supply of 15mm / 50 mm dia specials for Jointing pipe line as per actual requirement as under : (1) 15mm dia. GI nipple 9"	S	Nos.	5
50	2) 15mm dia. Elbow	S	Nos.	5
51	3) 50/63mm dia. PVC saddle	S	Nos.	5
52	Lowering, Laying & jointing G.I.Pipes with G.I.specials of following diameter in proper position in grade & alignment as directed by engineer-in-charge including conveyance at site of work, labour, giving hydraulic testing etc.complete .. 15 mm dia medium duty GI Pipes	I	Mtr	5
53	Providing 15 mm thick Cement plaster in single coat on rough (similar) side of single or half brick wall / concrete walls for interior plastering upto floor two level and finished even and smooth in Cement Mortar 1:3(1-Cement, 3- Sand)	I	Sq Mtr	3.15
54	Providing and supplying in standard length ISI mark high density polythylene H.D.P.E. pipes suitable for potable water as per IS specification no. 4984/1995 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to site of work. a) 40 mm dia H.D.P.E. Pipe PE-80, 10 kg/cm ²	S	Mtr	100
55	b) 63 mm dia H.D.P.E. Pipe PE-100, 6kg/cm ²	S	Mtr	50
56	Flat PVC cable size 4.0 sq.mm	S	Mtr	100
57	Providing & fixing of Modified India Mark - II Tel. Hand Pump with .Modified Cylinder Assembly made of S.S. 304 for working as hand pump as well as common lifting water from submersible pump with modified design attached herewith necessary extra valve". & 10 Connecting Rods as per IS 15500. (b)Modified water chamber having spout straight with reducer & nipple for common delivery of water and top sealing plate with necessary Gasket (c) Handle bar Locking Arrangement (d) Pedestal hole with nipple for cabling purpose.	S&I	Set	1
58	Providing medium duty 32 mm dia.pipe approx 3 mt. long both end threaded and with one long end threaded and with one end socketed.IS 1239-1979 part-I	S	Mtr	30
59	Comprehensive Maintenance Contract	O	Set	1