

Item Rate of Water Storage Tank & Bore					
S.No	Description	Quantity	Unit	Rate	Amount
<b>Borehole work</b>					
1	Conducting of Resistivity Test at site area as per Engineer in Charge	1	No		
2	Drilling of Bore 12" Complete as per Engineer in Charge	130.00	Rt		
3	Supply and installation of Plastic Casing Pipe as per Engineer in Charge	130.00	Rt		
4	Supply and installation of column pipe 2" in bore hole Laying, cutting, joining, testing and disinfecting PPRC pipe line including specials, the cost of painting 2 coats with bitumen to pipes as per engineer in charge. Column pipe 2" extend to source	180.00	Rt		
5	Supply and installation of PVC Pipe 3" Complete with all Borehole	220.00	Rt		
<b>Water Tank</b>					
6	All excavation operations manually or by mechanical means shall include excavation and disposal of the buildings foundations, trenches, basements, water tanks excavated material for canals, drains foundations, sewers and manholes including excavation in hard soils and under water etc. The work shall include of depositing the excavated materials as specified. The disposal of the excavated material beyond free lead shall be either stated as a separate item or included with the terms of excavation starting lead. During the excavation the natural drainage of the area shall be maintained. Excavation shall be done from top to bottom. Undermining or undercutting shall not be done. (Detail specification attached below)	960.40	Ct		
7	P/L Concrete made by using Ordinary Cement (OPC) and other basic ingredients i.e. coarse aggregate, fine aggregate and water. The concrete having Volumetric proportions of 1:4:8 (1 Cement : 4 Sand : 8 Aggregate) Nominal 28 days Cylinder Compressive Strength of such concrete is 8 MPa (1200 psi). However, it may vary depending on physical and chemical properties of aggregates. It shall be used for no structural works like floor underlain, lean concrete etc.	18.85	Ct		
8	The size of bricks shall be as specified. They shall be well burnt without being vitrified. They shall be of uniform colour, regular in shape and size, with sharp and square corners and parallel faces. They must be homogeneous in texture and emit a clear ringing sound when struck. They shall be free from flaws and cracks. They shall not absorb more than 16% of their weight of water after being soaked for one hour at a temperature of 24 to 35°C, and shall show no signs of efflorescence on subsequent drying. The average compressive strength (1 brickwork) 11-2 strength of five representative bricks shall not be less than 1600-2000 pounds per square inch. When tested in accordance with ASTM Designation C-47, if 10 bricks per thousand are defective or if the average weight of nominal 8 inches x 4-1/2 inches x 3 inches (with tolerance of 0.11 inches only) brick is less than 5.5 lbs (2.5 Kg) or brick are out of dimension, the whole lot shall be rejected and the contractor shall remove the rejected lots from the site free of cost. In addition to above, for bricks required in connection with lining of Canals, salt content in the earth shall not be more than 0.3%, perforated bricks shall be manufactured as per specified design and perforations.	202.78	Ct		
9	P/L Concrete made by using Ordinary Cement (OPC) and other basic ingredients i.e. coarse aggregate, fine aggregate and water. The concrete having Volumetric proportions of 1:3:6 (1 Cement : 3 Sand : 6 Aggregate) Nominal 28 days Cylinder Compressive Strength of Chapter-6 (Plain & Reinforced Concrete) 5-2 such concrete is 10.5 MPa (1500 psi). However, it may vary depending on physical and chemical properties of aggregates. It shall be generally used for some structural members like foundation, hard standings, concrete blocks etc. and any other works where such strength is specified.	230.40	Ct		

10	P/L PCC 1:2:4 Concrete shall be controlled, mixed, and handled as specified in Section 5 - Plain & Reinforced Concrete unless otherwise specified herein. Concrete shall not be poured in the forms until the Engineer-in-Charge has inspected the placing of the reinforcement, conduits, anchorages, and pre-stressing steel and has given his approval thereof. The concrete shall be vibrated internally or externally, or both as ordered by the Engineer-in-Charge. The vibrating shall be done with care in such a manner as to avoid displacement of reinforcement, conduits, or wires.	115.09	Ch		
11	P/L RCC 1:2:4 Concrete shall be controlled, mixed, and handled as specified in Section 5 - Plain & Reinforced Concrete unless otherwise specified herein. Concrete shall not be poured in the forms until the Engineer-in-Charge has inspected the placing of the reinforcement, conduits, anchorages, and pre-stressing steel and has given his approval thereof. The concrete shall be vibrated internally or externally, or both as ordered by the Engineer-in-Charge. The vibrating shall be done with care in such a manner as to avoid displacement of reinforcement, conduits, or wires.	111.10	Ch		
12	providing and fixing of Reinforcement steel shown in drawing Complete with all respect as per Engineer in charge.	819	Kg		
13	Providing and laying 1/2" thick Plastering with 1:3 CM with cement sand machine mixed mortar filled corner, joints edges etc. All work to be completed as per specification and Engineer in charge.	684.4376	Sq		
14	providing & finishing <b>Painting work</b> After completion of installation and testing to the satisfaction, carryout all finishing, retouching and refinishing operation on the entire equipment accessories and installation matching the original finish in an approved way. All auxiliary works carried out as the finished installation shall also be painted in the approved standard after applying anticorrosive base. When specially required, the paint used for painting of sheets shall be of as approved by the Engineer-in-Charge.	295.89	Sq		
15	providing & installation of Solar system with complete with all respect as per Engineer in charge. (Detail attached below)	1	Job		
16	Accessories	1	Lumsum		
17	Provide & Fixing Main hole cover	1	No		
18	Trans. of Cons. Material	1	Lumsum		
19	Shuttering	1	Lumsum		
20	Supply & installation of 01 Sign Boards Complete in all respect and as per IR design & Logo. (Drawing Attached below) High = 8 feet Width = 7 feet	1	Nos		
21	Providing & installation of GI Pipe 3" Dia The pipe lengths shall be in each case be with socket. The pipes shall be supplied without ears unless otherwise specifically mentioned. The pipes supplied shall be factory painted with a tar base composition) both inside and outside which shall be smooth and tenacious. Every pipe shall ring clearly when struck all over with a light hand hammer. When shorter pipes are cut from full lengths they shall be cut with a hacksaw.	16	Rt		
22	Providing & installation of GI Pipe 4" Dia The pipe lengths shall be in each case be with socket. The pipes shall be supplied without ears unless otherwise specifically mentioned. The pipes supplied shall be factory painted with a tar base composition) both inside and outside which shall be smooth and tenacious. Every pipe shall ring clearly when struck all over with a light hand hammer. When shorter pipes are cut from full lengths they shall be cut with a hacksaw.	12	Rt		
23	Providing & installation of Gate Valve 2" Dia	1	No		
GRAND TOTAL(Inclusive of Taxes, Transportation, Deliveries & Installation)					

Detail Estimate Breakup Of Solar System					
S.No	Description	Quantity	Unit	Unit Price	Total Amount
1	Solar Panel 300 Watt A (Grade Poly Crystalline	12	No.		
2	Solar Motor 3 HP, Solar Pump 3 Hp Three Phase	1	No.		
3	Solar Mounting Frame Fixed	12	No.		
4	Al-Three Core Cable 10 mm	180	Rt		
5	DC Cable For Panel Connections	200	Rt		
6	Stainless Robe	150	Rt		
7	Floot Switch	1	No.		
8	1" Dia PE Pipe PN12	180	Rt		
9	Fence all around the Fixed Frame	1	Job		
10	Accessories	1	Job		
GRAND TOTAL(Inclusive of Taxes, Transportation, Deliveries & Installation)					

Material Specification		
S.No	Specification	Item
1	Ordinary Cement 50 Kg bag	Cement
2	Locally available from Near By river beds free from clay content and organic material, well graded & clean	Sand
3	Locally available from Near By river beds free from impurities well graded and atleast 20 mm dia	Gravel/Crash
4	A Class (Standard size 9" x 4.5" x 2") Compressive strength 100 Kg/cm <sup>2</sup>	Brick
5	1/2" Dia	GI Rib Cook
6	Pressure Pipe white colored	PVC pipe 3"
7	GI Pipe 2" Dia (Steel x) 10 gauge	GI Pipe 2"
8	Gate Valve 2" Dia	Gate Valve 2"

Scope of work	
No.	Items
1	Reconnaissance Test
2	Drilling of Bore
3	Plastic Casing Pipe
4	Columns pipe 3"
5	PVC Pipe 2"
6	Earthwork Excavation
7	PCC (1:2:4)
8	PCC (1:2:4)
9	PCC (1:2:4)
10	RCC (1:2:4)
11	Back Masonry (1:4:8)
12	PPRP Pipe 2" Dia
13	Chamber in 1:4
14	Paint
15	Trans. of Cons. Material
16	Shuttering
17	Sign Board
18	Job system complete
19	Accessories
20	Manhole cover
21	GI Pipe 3" Dia
22	GI Pipe 4" Dia
23	Steel

