

Detailed estimate of Water Storage Tank					
Sr.No	Description of Items	Total Quantity	Unit	Rate	Amount
1	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 items of excavation stating 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.	1222.33	Cft		
2	Earthwork returning, filling in, including watering and raming in layers, 15 cm (6 inch) thick inside above GL.	184.31	Cft		
3	P/L Concrete made by using Ordinary Cement (OPC) and other basic ingredients i.e. course aggregate, fine aggregate and water. The concrete having Volumatic 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 underlay, lean concrete etc	83.14	Cft		
4	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 1/6th of their weight of water after being soaked for one hour at a temperature of 24 to 26°C, and shall show no signs of efflorescence on subsequent drying. The average compressive Chapter-11[Brickwork] 11-2 strength of five representative bricks shall not be less than 1800-2000 pounds per square inch. When tested in accordance with ASTM Designation: C-67. If 10 bricks per thousand are defective or if the average weight of nominal 9 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.	233.93	Cft		
5	P/L Concrete made by using Ordinary Cement (OPC) and other basic ingredients i.e. course aggregate, fine aggregate and water. The concrete having Volumatic proportions of 1:3:6 (1 Cement : 3 Sand : 6 Aggregate) . Nominal 28 days Cylinder Compressive Strength of Chapter-5 [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.	157.87	Cft		
6	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.	101.24	Cft		
7	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.	116.95	Cft		
8	providing and fixing of Reinforcement steel shown in drawing Complete with all respect as per Engineer in charge	445	Kg		
9	Providing and laying 1/2" thick Plastering with 1:3 CM with cement sand machined mixed mortar filled corner, joints edges etc, All work to be completed as per specification and Engineer in charge.	541.218	Sft		

10	providing & finishing Painting work 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 as approved by the Engineer-in-Charge	296.88	Sft		
11	well Digging & cleaning upto 5 yard and Brick Lining up to 5 yards	5	yards		
12	Providing & Installation of Bib Cock	8	Job		
13	providing & Installation of Solar system with complete with all respect as per Engineer In charge. (Detail attached below)	1	Job		
14	Asseccories (Detail attached below)	1	Lumsum		
15	Providing & Fixing Main hole cover	1	No		
16	Providing & Installation HDP Pipe 2" for networking Source to Tank pipes and fillings shall conform to BS 78 for spigot and socket vertically cast pipes and BS 1211 for spigot and spun pipes. The pipes shall be perfectly, smooth and cylindrical, their inner and outer surfaces being as nearly as practicable concentric. These shall be sound and of uniform castings, free from laps, pin holes or other imperfections and shall be neatly finished and carefully fitted both inside and outside. The ends of pipes shall be reasonably square to their axes. The pipes shall be procured from an approved source.	520	Rft		
17	Trans. of Cons. Material	1	Lumsum		
18	Shuttrings	1	Lumsum		
19	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		
20	Providing & insrtallatuipn GI Pipe 2" 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.	34	Rft		
21	Providing & insrtallatuipn 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.	30	Rft		
22	Providing & Installation of Gate Valve 2" Dia	1	No		
GRAND TOTAL(Inclusive of Taxes, Transportation, Deliveries & Installation)					

Detail Estimate Breakup of solar system				
S.#	Description	Quantity	Unit	Total Amount
1	Solar panel 300 watt A Grade poly crystalline	8	No	
2	Submersible moter 3 HP , Submersible pump 3 HP 3 phase	1	No	
3	solar mouning frame fixed	8	No	
4	AC 4 core cable 4mm	100	RFt	
5	inverter 1.5 Kw invt	1	No	
6	7/29 cable for panel connection	160	RFt	
7	safy robe	110	RFt	
8	float switch	1	No	
9	1" dia PE pipe PN 12	70	RFt	
10	Fence all around the Fixed Frame	1	Job	
11	Accessories	1	Job	
12	Transportation charges	1	job	
13	installation charges	1	job	
GRAND TOTAL(Inclusive of Taxes, Transportation, Deliveries & Installation)				

Detail of Accessories			
Discription	Specification	Quantity	Unit
GI pipe inlet(tank)	2" dia, one side jury & other weld		3.5 ft
GI pipe outlet (tank)	2" dia, one side jury & other weld		3.5 ft
GI pipe overflow	2" dia, one side weld		3.5 ft
GI pipe drain	2" dia, one side jury & other weld		3.5 ft
GI pipe vertical outlet	2" dia, both sides jury		3 ft
GI pipe at tap stand 1 (vertical)	2" dia, both sides jury		2.5 ft
GI pipe at tap stand 1 (Horizontal)	2" dia both sides jury		1 ft
GI pipe at tap stand 2 (vertical)	2" dia, both sides jury		2.5 ft
GI pipe vertical inlet pipe	2" dia, both sides jury		11 ft
	13 juries & 4 w		34 ft
Discription	Specification	Quantity	Unit
GI pipe	1" dia, double side jury		6 Inch
PVC Pipe	1" dia		45 ft
GI pipe	1" dia, double side jury		2.5 ft
GI pipe	1" dia, double side jury		2 ft
Elbow	1" dia		2 Nos
Socket for connecting bibcock & pipe of 1"			
Discription	Specification	Quantity	Unit
GI Elbow	2" Dia		8 Nos
GI Double beral			4 Nos
GI Socket	2" Dia		4 Nos
GI Socket	1/2" Dia		9 Nos
GI Pipe Nipple	2"x1.5" Dia		2 Nos
GI Pipe Nipple	2" x 2"		1 No
Padlo Powder			6 Kg
Saw Frame	Steel		2 Nos
Saw	Steel		12 Nos
Wire brush			1 No
Gloves			2 Set
Jury tape			10 Nos
GI Socket	2" x 1 1/2" Dia		1 No
GI Bush	1 1/2" Dia		1 No
Binding wire			5 Kg
Steel pegs	4"		2 Kg
Casing pipe wilding,fitting etc with all respect	120kg with 2 fil		6 Nos

Material Specification		
S.#	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 3") Compressive strength(100 Kg/cm2)	Brick
5	1/2" Dia.	GI Bib Cock
6	Pressure Pipe white colored	PVC pipe 2"
7	GI Pipe 2" Dia (Steel x) 10 guage	GI Pipe 6"
8	Gate Valve 6" Dia	Gate Valve 6"

Scop of work	
Nos	Items
1	Earthwork Excavation
2	Earthwork Filling
3	PCC (1:4:8)
4	PCC (1:3:6)
5	PCC (1:2:4)
6	RCC (1:2:4)
7	Brick Masonry in 1:4(cft)
8	PPRC Pipe 2" Dia
9	Plaster in 1:4
10	Paint
11	Well Degging & cleaning upto 5 yard
12	Trans. of Cons. Material
13	Shuttings
14	Sign Board
15	PPRC pipe 1" dia for Tap.S
16	Bib Cock
17	solar system complete
18	Assecories
19	Main hole cover
20	GI Pipe 2" Dia
21	GI Pipe 3" Dia
22	Steel

Sign Board(Drawing)

