



OPELIP

ODISHA PVTG EMPOWERMENT & LIVELIHOODS IMPROVEMENT PROGRAMME
(ST & SC Development Department)
Govt. of Odisha



Programme Management Unit

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Letter No. 366

Date: 05.02.2021

File:314/2020

From

**Shri. P Arthanari, IFS
Programme Director, OPELIP**

To

The Special Officers, 17 MPAs

Sub: Regarding tentative model estimate Water Purification pilot project.

Sir,

With reference to the subject cited above, I am to intimate that the water purification pilot projects have been proposed to be initiated under Community Infrastructure component under AWP & B 2020-21. In this regard, tentative estimate for solar based water purification pilot project in bore well/tube well as source has been enclosed. In this case, the pipe rate pertaining to EPM rate may be given preference to the Market price. A maximum 10% deviation may be allowed keeping in view of extra lead, manual head load and structural requirement as per the site condition while executing the aforementioned projects.

You are therefore intimated to inform the person concerned to follow the above instructions strictly.

Enclosure: As above

Yours faithfully,

[Signature]
05/2/21
Programme Director

TENTATIVE ESTIMATE-SOLAR BASED WATER PURIFICATION PILOT PROJECT

Name of the work:- Construction of RO Water Purifier System/Plant 250 Liter Per hour Stainless Steel Automatic in bore well/Tube well as source.

Raw water tank=> Raw water Pump=>Dual Media Filter=> Activated Carbon Filter (ACF)=> Anti Scalant Dosing System (Tank&Pump)=> Micron Cartridge Filter=>High Pressure Pump=> Reverses Osmosis Membrane Module=> Product Water Storage Tank=>Use

Sl No	Description Items	Unit	Qty	Rate(Rs.)		Amount(Rs.)
1	Solar Pannel-325 watt (Poly Pannel)	No.	3	10000.00	Rs	30000.00
2	Solar Motor - 1 HP D.C (MNRE approved) with Controller	No.	1	45000.00	Rs	45000.00
3	Pipe and other fittings (From main source to Pilot unit) with 63 mm HDPE pipe- around 60 mt.@Rs.120.31/mt	LS	1	10000.00	Rs	10000.00
4	Plumbing Materials (40 mm dia wire rope to hold the D.C motor, Pipe and other fittings)	1 set	1	18000.00	Rs	18000.00
6	Construction of Room with RCC roof (8'x8')for holding 2000 lit PVC- Raw water tank and solar panels, controller	No.	1	70000.00	Rs	70000.00
7	Supplying 2000 lit PVC Raw water tank(ISI mark)	lit	2000	7.00	Rs	14000.00
8	Purification Unit(Supplying and instalation of 250 LPH Commercial RO Water Purifier System/Plant 250 Liter Per hour Stainless Steel Automatic).	1 Set	1	110000.00	Rs	110000.00
9	Supplying 2000 lit PVC Purified water tank(ISI mark)	lit	2000	7.00	Rs	14000.00
10	Construction of Platform 1 nos for Syntax Tank for purified water	No.	1	10000.00	Rs	10000.00
11	Construction of stand post for outlet	No.	30	1200.00	Rs	36000.00
12	1" HDPE pipe 300 mtr-Out let and distribution Cost for 30 Nos of stand Post	Mt	300	27.39	Rs	8217.00
13	Fitting cost for distribution	LS			Rs	5000.00
14	Barbed Wire, Earthing and lighting arrestor <i>1 other Contingency</i>	1 Set	1	18000.00	Rs	18000.00
15	Maintenance for 5 Years	Each Year	5	2500.00	Rs	12500.00
					Rs	400717.00
			or	Say	Rs	400000.00
18	Beneficiary Contribution				Rs	90200.00
						490200.00
16	Work Contingency		1%		Rs	4902.00
17	Labour Cess		1%		Rs	4902.00
					Rs	500004.00
	Total cost		or	Say	Rs	500000.00

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