

CONTRACT NO.

GUJARAT WATERSUPPLY & SEWERAGE BOARD  
GANDHINAGAR  
(A WHOLLY OWNED GOVERNMENT OF GUJARAT UNDERTAKING)



**Bid Documents for “ Construction of RCC U/G sump, Providing Supplying, Lowering, Laying & Jointing 140 mm dia and 90 mm dia PVC Pipeline, Construction of Pump Room, Electricity for Dahisara Village, Tal. Bhuj under Rejuvenation Programme, YR 2025-26.”**

**Estimated Cost :- Rs. – 16,84,373.12**

**VOLUME- IID**

**VOLUME - IID, Technical Data Sheets Civil**

Executive Engineer  
Public Health Works Division,  
Gujarat Water Supply & Sewerage Board  
Bhuj - Kachchh

**DATA SHEET FOR R.C.C. PUMP HOUSE**

<b>Sr. No.</b>	<b>DETAILS</b>	<b>Parameter / Requirement</b>
<b>1.0</b>	<b>GENERAL</b>	
1.1	Location/ Size (tentative)/ Carpet area of the Pump House (Sq. mtr)	<del>Pump House (Ht. Up to 3.6 m)</del> <del>(A) Without Gantry Structure.</del> <del>1.1) Intermediate Pumping Station (4m x 3m)</del>
1.2	Type	RCC frame work with brick masonry wall above plinth level & RCC walls up to plinth with <b>Negative</b> Suction type
1.3	Height of Pump House above Floor Level to Bottom beam of ceiling (m)	● <b>Without Gantry Structure up to 3.60 m</b>
<b>2.0</b>	<b>Design Data</b>	
<b>2.1</b>	<b>Control levels</b>	
	<del>a) Avg . Ground Levels</del>	<b>As per Site or Design</b>
2.2	SBC At site	<del>Contractor Shall carry out SBC for Design Purpose</del>
2.3	Water table	<del>To be decided on basis of soil investigation.</del>
2.4	Seismic	<del>Zone-V or as per latest revision of IS:1893</del>
2.5	Water Density	9.81 kN/cum
2.6	Plinth level of Pump house	Avg. G.L. + 1 Mt. Ht.
<b>3</b>	<b>Design Requirement</b>	

3.1	Standard Codes	(1) I.S. 3370, Part-1 to 4, 1965 or latest revised. (2) I.S. 456-2000 or latest revised. (3) I.S. 1893-2002, Part-1 to 5 or latest revised. (4) I.S. 875, Part-1 to 5, 1987 or latest revised. (5) I.S. 10262-2009 or latest revised. (6) I.S. 13920-1993 or latest revised.
3.2	Foundation	-The foundation shall be design for actual SBC of soil strata confirmed by plate load bearing test. -The total Depth shall not be less than 1.0 m. Block foundation for pumping machinery over floor slab to be provided, as per relevant IS Code.
3.3	Grade of concrete	M30 for upto Pump Floor Level and M25 for above Pump Floor Level.
3.4	Grade of Steel	TMT FE- 500 steel to be used
3.5	Water Density	9.81 kN/Cu.m
3.6	Live Load on the Pump Floor Level (kg/ sqm.)	
3.7	Column	Mini. 300 mm thickness(or as per Design)
3.8	Beam	Mini. 300 mm thickness(or as per Design)
3.9	Bottom Floor	-Mini. 100 mm thickness PCC(as per Design)
3.10	Top Slab	Mini. 150 mm Thickness(or as per Design)
3.11	Clear cover	As per IS Code
3.12	Material handling arrangement	Chain pulley block minimum 1.0 MT capacity with girder or as per Design.
3.13	Flooring	8 MM thick vitrified tiles
3.14	Window	Aluminum section glazed window having three tracks sliding shutter and out of 3 shutters one should be having mosquito net. MS grill for Protection Purpose.
3.15	Doors	MS door with hand-daft and hinge. MS section should paint with one coat red oxide and one coat Colour. Size of the door should be appropriate as per site requirement
3.16	Sanitation Facility	As per design and standard requirement

3.17	(Toilet, Urinal, Sock Pit, Drinking Water Facility)	-
	Inside Plaster	15 mm thick CM 1:4 niru finished with water proofing compound.
3.18	Outside plaster	20 mm thick CM 1:6 sand face.
3.19	Colour	2 Coat Weather Proof Exterior (Apex) paint with Primer should be applied (Approved Brand) & Internal — Distemper of approved brand and quality
3.20	Grade of Concrete	M 30 for upto Pump Floor Level and M25 for above Pump Floor Level.
3.21	Steel	TMT Steel Fe-500 Confirming to Relevant IS non corrosive steel to be used
3.22	Arrangement for gantry	Not applicable
3.23	Minimum Reinforcement for all members	Design requirements as set out in relevant IS codes in respect of all Reinforcements shall be strictly followed.
3.24	Inside Light	Sufficient electricity point and light arrangement as per requirement which include light and fan and plug point and also provide lights and fan for use.
3.25	Outside light	Sufficient electricity point for outside light point with arm bracket. Also provide LED light for floodlight as per site requirement.
3.26	Cupboard	Making arrangement wit Kota stone for cupboard.

Contractor

Executive Engineer  
P. H. Works Division  
Bhuj-kachchh

**Pumping Machinery List**

Sr. No.	Pumping Machinery Location	PM Category	Note
1	Dahisara VILLAGE	As per Sch-B	

Note: Head, Discharge, HP, KW and Category of pumping machineries and ancillary components will be according to actual design to be sanctioned. And agency has to carry out the work according to sanctioned design.

Sign of Contractor

Executive Engineer  
P. H. Works Division  
Bhuj