

CONTRACT NO.

GUJARAT WATER SUPPLY & SEWERAGE BOARD GANDHINAGAR

(GOVERNMENT OF GUJARAT UNDERTAKING)



Bid documents for " Providing, Supplying, Lowering Laying and Jointing of 90mm dia. PVC Pipeline, Const. of RCC U.G. Sump Cap. 1.00 Lac Litre and Pump Cabin (2m x 2m) for Dalitvas (Dhori) Under SCSP Programme 2024-25."

Estimated Cost: Rs. 9,79,235.27

VOLUME- II

VOLUME - IIA, Extent of Work

VOLUME - IIB, Technical Specifications - Civil Works

Executive Engineer
Public Health Works Division,
Gujarat Water Supply & Sewerage Board
Bhuj – Kutch.

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VOLUME- IIA

EXTENT OF WORK

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Content

- Extent of Work
- General Schedule
- General Specification- Civil Works
- Technical Specification- Civil Works

EXTENT OF WORKS

1.0 GENERAL:

This is a single point responsibility contract comprising Working survey, soil investigation, Design, Build and Operate contract for the work/Project:

Providing, Supplying, Lowering Laying and Jointing of 90mm dia. PVC Pipeline, Const. of RCC U.G. Sump Cap. 1.00 Lac Litre and Pump Cabin (2m x 2m) for Dalitvas (Dhori) Under SCSP Programme 2024-25.

The Scope of Work under this Contract includes:

Providing, Supplying, Lowering Laying and Jointing of 90mm dia. PVC Pipeline, Const. of RCC U.G. Sump Cap. 1.00 Lac Litre and Pump Cabin (2m x 2m) for Dalitvas (Dhori) Under SCSP Programme 2024-25.

as specified in different sections of this specification. The scope broadly comprises the work specified in different sections of this Tender Specifications.

Any item of work, for erection of material / equipment which have not been specifically mentioned in the specification but are necessary for safe and trouble-free operation and guaranteed performance of the entire system, plant and equipment offered shall be deemed to be included within scope of this specifications and shall be provided by the bidder without any extra price and time implication to the employer.

The successful bidder shall have to undertake site surveys, route surveys for ascertaining the terrain for planning and designing of the schemes in consultation with Engineer-in-charge, as Structure as to conduct geotechnical investigations for designing of foundation system of various structures. The bidders shall submit actual path of laying of transmission network based on actual site condition and shall submit hydraulic design of transmission network to Employer/Consultant for review/approval and thereafter as per approved hydraulic design pipelines should be laid.

The scope of work shall also include obtaining necessary statutory approvals for the components as required. The statutory approvals shall include but not limited to Load Sanction from GEB/Load Release from GEB/ No Objection Certificates from Gujarat Electricity Board (GEB) / Electrical Inspector / relevant government agencies / any other statutory authority as applicable. The same shall be in the scope of contractor.

GWSSB will be responsible to get all other statutory permissions and clearances from the concerned central / state or local statutory authorities. However, the contractor shall have to manage the day-to-day co-ordination and follow up activities based on these clearances on site.

In the work of construction of structures, if the following condition like ground situation, SBC reports, type of strata encountered in foundation, natural rainfall drain patterns, Ground water table of locations, etc. occurs and the engineer in charge feels the necessity of consideration of ground water table, the structural design shall be incorporate necessary water uplift pressure. The decision of engineer-in-charge shall be binding to the bidder. Bidders are advised to quote the rate keeping in view this point as no extra payment shall be given for this. In case of any ambiguity, the decision of Superintending Engineer shall be final and binding to the bidder.

Before starting the actual work, the contractor has to provide and fix necessary DISPLAY BOARDS at all works site as per design, details, including writing with paints necessary details as directed by Engineer-in-charge at Contractor's own cost. No extra payment shall be made for this work. These shall be property of GWSSB / Client after completion of works.

2.0 DETAILS OF PROPOSED SCHEME

2.2 Civil Works: GENERAL

Providing, Supplying, Lowering Laying and Jointing of 90mm dia. PVC Pipeline, Const. of RCC U.G. Sump Cap. 1.00 Lac Litre and Pump Cabin (2m x 2m) for Dalitvas (Dhori) Under SCSP Programme 2024-25.

2.2.1 Valve chambers

Contractor shall carry out the construction of valves chambers in consultation with the engineer in charge.

2.2.2 Anchor/Thrust Block

Anchor/thrust blocks shall be provided wherever necessary in consultation with engineer in charge. Contractor shall carry out the design and submit the same for review and approval before execution.

2.2.3 Civil Works for Transmission Piping:

The schematic diagram for pipeline is as shown in the bid drawings. This is only for reference and the selected bidder have to prepare the route map after carrying out necessary survey and fix the alignment in consultation with the Engineer in Charge-

The scope of works comprises the following :

- Hydraulic design shall be prepared and submitted to GWSSB for approval.
- Route Survey.
- Geotechnical survey along the pipe route.
- Excavation of pipe trenches. Constructing pedestals/ column support/ saddles/ steel bridge, Raising the pipe
- Supplying and Laying of PVC pipe of design diameters with all specials along the route as per the route map (to be surveyed and prepared by the selected bidder).
- Transportation of pipes and materials to fabrication / erections including loading and unloading.
- Contractor shall plan and accordingly phase the supply of items according to his requirement to best utilize the available storage space at site.
- Providing coating/ lining/painting as specified in this tender specification.
- Providing and fixing sluice valves, Scour valves and Air Valves on pipeline, as specified in relevant data sheets, detailed technical specifications, particular technical specifications
- Providing tapings as required.
- Providing pipe bedding as per the requirements.

- Backfilling of pipe trench with selected soil immediately after erection of pipe excluding pipe joints.
- Encasing of pipelines as per specifications.
- Hydro testing of pipeline in segments.
- Back filling of pipe trench at pipe joints.
- ~~- Providing and fixing electro-magnetic flow meter on Existing and New pipelines at specified locations.~~
- Construction of RCC Sluice / ZVV / Butterfly/ Flow meter Valve Chambers as per design and drawing. A typical valve chamber drawing is enclosed for reference.
- Supplying, fixing construction of riser pipe for air valves as per design and drawings.
- Connection of newly laid pipes with existing pipes.
- Construction of RCC Thrust blocks, Saddles, Anchor blocks & cross drainage works etc. A typical drawing is enclosed for reference.
- Demolishing old structures in the route of pipeline, if required.
- Construction of culverts/ saddles for pipe laying in Nallah Portion if required.
- Flushing of entire pipeline with clean water at least for 24hours.
- Testing and commissioning all the laid Rising main.
- Preparation of as-built drawings.

Summary of transmission pipelines, along-with the pipe materials, diameter and lengths are mentioned below.

Summary of pipeline: As per BOQ uploaded.

Sr. No	Material	Pipe Dia.(MM)	Length (Mtr.)

Summary of Civil Structure As per BOQ Uploaded

Sr. No	Civil Structure	Capacity	Nos.

Other: As per BOQ uploaded.

~~Summary of Pumping machinery:~~

~~Design, Supply, Testing and commissioning of Pumping machinery in the scope of contractor:~~

Pumping Machinery	Nos. of Pump	KW	Head (m)	Discharge (LPM)

2.3 Special Attention

The Contractor has to manage following register and Record in each project site. All Register will be maintain properly by contractor with signature of engineer in charge.

The Contractor has to manage following register and Record in each project site.
All Register will be maintain properly by contractor with signature of engineer in charge.

Sr. No.	Name of Register
1	Concrete Pour Card
2	Cube Testing Register
3	Steel Testing Register
4	Cement Consumption Register
5	Daily Progress Register
6	Site Visit Register
7	Pipeline Laying Register
8	Drawing Register
9	Steel Purchase Register
10	Steel Consumption Register
11	Daily log Register
12	Level Register
13	Hydraulic Testing Pipeline
14	Work Order Register