

GUJARAT WATER SUPPLY AND SEWERAGE BOARD

Name of Work :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.

SCHEDULE - B

Tal. : Bhuj

Dist. : Kachchh

QTY.	UNIT	DESCRIPTION OF ITEM	RATE	PER	AMOUNT
1	2	3	4	5	6
		Item No. 1			
		Providing and supplying in standard length ISI mark rigid unplasticised PVC pipes suitable for potable water with ringfit joint including cost of rings, as per IS specification no. 4985/1988 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the departmental stores and including cost of jointing material etc. complete.			
		Note:			
		1. One coupler/ring shall be provided with each full length pipe cost of which is included in rates below.			
		2. 3% (Three) Discounted rate to be consider for Coupler jointed pipe.			
		3. Rate for PVC resin as Rs.134700/MT (Price without GST)			
2100.00	Rmt	90mm PVC Pipe 6 kg / cm2	139.00	Rmt	291900.00
		Item No. 2			
		Providing and supplying ISI mark CI D/F Sluice Valves ,Butterfly Valves & Reflux Valves of following class and diameter including all taxes, insurance, transportation,freight charges, octroi, inspection charges, loading,unloading, conveyance to departmental store,stacking etc.complete.			
2.00	No.	80 mm Dia Sluice valves PN 1.0 with handwheel/cap operated(short body)	2652.00	No.	5304.00
		Item No. 3			
		Excavation for pipe line trenches incl. All safety provision using site rails and staking excavated stuff up to lead of 90mt cleaning the site etc. comp. for lift up to 1.5 m.depth & strata as 'specified..			
		90mm PVC Pipe 6 kg / cm2			
945.00	Cu.Mt.	(a) In all sorts of soil and soft murram (75%)	89.00	Cu.Mt.	84105.00
315.00	Cu.Mt.	(b) Hard murram (25%)	135.00	Cu.Mt.	42525.00
		Item No. 4			
		Lowering laying and jointing PVC/UPVC/CPVC pipes and 'special of following class and diametar incl. Cost of conveyance from stores to sites of work incl. 'cost of labour materials except cement solvant 'giving satisfactory hydraulic testing as per ISI code.			
2000.00	R.Mt.	90mm PVC Pipe 6 kg / cm2	17.00	R.Mt.	34000.00
		Item No. 5			
1250.00	Cu.Mt.	Refilling the pipe line trenches incl. Ramming 'watering consolidating disposel of surplus stuff 'as directed within a radius of 3 km	22.00	Cu.Mt.	27500.00
		Item No. 6			
		Lowering, laying and jointing in position following C. I. / D/F Reflux valves, Butterfly valves, Sluice valves and Air 'valves including cost of all labour, jointing material,'including nut bolts and giving satisfactory hydraulic 'testing, etc. complete.			
2.00	No.	80 mm Dia Sluice valves PN 1.0 with handwheel/cap operated(short body)	400.00	No.	800.00
4.00	No.	25 mm Dia Double Air valve	56.00	No.	224.00
		Item No. 7			

QTY.	UNIT	DESCRIPTION OF ITEM	RATE	PER	AMOUNT
1	2	3	4	5	6
		Providing and supplying C. I. Air valves of approved make & quality of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.			
4.00	No.	For 25 mm Dia Double Air valve	717.00	No.	2868.00
		Item No. 8			
		Erection of air valve riser by installing new M.S. pipe of 6mm thick and 3.2mt length with neecessary fittings such as flange of appropriate size, nut bolt and embedded the pipe in RCC M:15 with offset of 10 cm around pipe with necessary steel etc. complete			
4.00	No.	For 25 mm Dia Double Air valve	2663.00	No.	10652.00
		Item No. 9			
		Construction of valves chambers in brick or bela stone masonry, locally available in C. M. 1:6.Foundation concrete 150 mm thick in C. C. 1:4:8of trap metal size 25 mm to 40 mm thick, inside cement plaster in C. M. 1:3 and cement pointing outside in C. M.1:3 and top cover of precast RCC slab 100mm thick(with key hole in two parts, each with handles or MS bar etc. complete as given size) up to 1mt depth from GL to pipe invertlevel incl.complete civil work excl. cost of excavation & refilling.with cast in situ RCC slab in one single piece with fixing of CI-MH frame and cover (excl. cost of CI-MH frame and cover) with 23mm thick brick masonry wall in C.M. 1:6.			
		with single piece 10cm with fixing M.H.cover			
2.00	No	size of chamber 0.60X0.60X1 mtr	5138.00	No	10276.00
		Item No. 10			
8.88	Cum	Providing C.C.M 1:100 for encasing pipes using trap metal size 12 mm to 50 mm incl. form work curing consolidation etc. complete. In river porstion using trap metal 40 mm size	3368.55	Cum	29912.72
		Item No. 11			
		Preparing structural design of RCC Under Ground / Partially under ground / above high ground level Reservoir of required capacity as per relevant I.S.s and constructing the same, including excavation in all types of soil strata (including rock) including shoring strutting if required, for loose soil / to protect from collapse due to near by traffic load, casting 100 mm thick P.C.C. leveling course in M-10, Refilling the pit with proper soil and disposing of the surplus stuff within a lead of 50 meters. Including cement plaster in CM 1:2 with approved water proofing compound to inside water touching surface to container. Including all types of labour and material charges of lowering, laying, erecting / hosting and jointing of pipe assembly to inlet, outlet overflow, washout and bye pass arrangement as per hydraulic design.			
		Providing and fixing accessories like MS / GI Ladder, CI Manhole frame and cover, water level indicator, adequate cowl type ventilators or lantern type ventilator with stainless steel jail.			
		RCC chambers for valves. Providing and applying three coats of cement paint / snowcem to the out side face of structure. It also includes satisfactory water tightness test as per relevant I.S. code and painting name of scheme and capacity on the tank as per direction of engineer in charge.			
		List of Indian Standards for Design of GSR / SUMP:-			
		The structural design of GSR shall be in accordance with provisions relevant to S.			

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		(1) I.S. 3370, Part – 1 & 2 2009 or latest revised.			
		(1.1) I.S. 3370, Part – 3 & 4 1965 or latest revised.			
		(2) I.S. 456 – 2000 or latest revised.			
		(3) I.S. 1893 – 2000 – 1984 or latest revised.			
		(4) I.S. 875, Part – 1 to 3, 1987 or latest revised.			
		General Specifications:-			
		(1) Water depth in container shall be adopted as per data of tender. Capacity Shall be calculated excluding free board of the reservoir. If water depth is not specified the suitable water depth / acceptable to field engineer in accordance with hydraulic requirement shall be adopted for capacity.			
		(2) Shape of container (in plan) specified by in data shall be adopted in absence circular shape shall be adopted.			
		(3) Size shall be fixed as per availability of space (land area) at site / acceptable engineer in charge.			
		(4) Effect of overlapping of pressure bulbs on soil due near by structure and proposed sump should be considered.			
		(5) Care shall be taken that no damage should occur to nearby existing structure. Compensation shall be paid for the same by agency.			
		(6) The minimum concrete grade for RCC shall be M-30.			
		(7) HYSD Fe 415 / 500 grade reinforcing bars confirming to I.S. 1786 / 1139 shall be considered in design. CRS /TMT bars shall be provided. In saline atmosphere corrosion resistance stainless steel / HCR rebar shall be provided. Any other steel			
		(8) Minimum size (or thickness) of various components shall be provided as per tender criteria / specifications in absence as per I.S./ Std. practice of G.W.S.S.B. Minimum dimensions specified for various components in tender data / specifications			
		(9) The safe bearing capacity (SBC) shall be referred from SBC test report. In absence of report it shall be referred from data sheet. If poor soil is found / water table is met with during excavation SBC shall be scientifically ascertained and design			
		(10) DI pipes and special shall only be used if type is not specified in tender.			
		(11) The rate shall include cost of dewatering during excavation making all arrangement when water table meets within depth.			
		(12) The structure shall be designed properly to resist uplift due to ground water table specified in data or actual ground water table meets with during excavation. No extra shall be paid. If GWT / Uplift is mentioned in tender and during excavation it dose not meet 7.5% rate shall be reduced.			
		(13) SS pipes railing shall be provided over sump periphery when sump height is ≥ 1.5 meter above ground level			
		(14.a) RCC Staircase/RCC steps should be provided from GL to Sump top slab based on the height of the GSR above/below the ground			
		(14.b) RCC Staircase with SS railing to be provided inside reservoir container. BB masonry staircabin to be provided to cover the same with MS Safety door having locking arrangement			
		(15) Appearance of structure should be aesthetically good looking acceptable to authority.			
		(16) Any change in size, shape, depth below GL, height above GL, water depth, F.B., size of member etc can be permitted in exceptional case due to site condition or hydraulic design requirement by C.E. No extra shall be paid for change.			

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		(17) Any change in data, dimensions, shape, water depth, reduction in size if permitted by competent authority and if it reduces quantity then payment shall be reduced prorate.			
		(18) When capacity of GSR / Sump is > 20 lakh liters two or suitable compartments acceptable to executive engineer shall be designed and provided.			
		(19) Agency shall engage qualified (at least graduate) consulting engineer for designing the structure and he / she shall visit the site for guidance of work.			
		(20) 75% part rate shall be payable for concrete, reinforcement and plastering items of container until satisfactory hydraulic testing for water tightness is performed as per tender condition. Till the work shall be treated as incomplete.			
		Above conditions / general specifications Sr. No. 1 to 20 are part and parcel of tender (contract) and prevail over other provisions in tender.			
1.00	No.	A) U.G. Sump 100000 liter 1No.	388210.09	No.	388210.09
		For GSR (U/G Sump) with cover slab to be constructed at site situated in seismic Zone V: the above rate shall increased by 2%			
		Item No. 12			
		Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.			
1.00	Cum	(a) Loose or Soft Soil	201.81	Cum	201.81
1.50	Cum	(b) In Hard Murrum	443.11	Cum	664.67
		Item No. 13			
		Providing and casting In situ mass cement concrete in grade M10 (approx. corresp.to prop. 1:3:6) using granite quartzite trap metal of size 12mm to 25mm incl.consolidation curing etc.complete (without forms work)			
1.06	Cum	(a) 1:3:6	3662.00	Cum	3881.72
		Item No. 14			
		Precast concrete block masonry (including quoin blocks jamb blocks closer etc.) with solid concrete blocks of approved size made of cement concrete 1:3:6 mix (1- Cement : 3 coarse sand: 6- graded stone aggregates of 20 mm and down grade) in foundation and plinth cement mortar 1:6 (upto 10 ton)			
1.80	Cum	(3.1) For Foundation and plinth	3599.54	Cum	6479.17
		Extra for masonry work with precast concrete block in superstructure above plinth upto floor two level.			
3.50	Cum	(3.2) For Superstructure	3865.19	Cum	13528.17
		Item No. 15			
75.60	Kg	Providing and fixing iron door ,window and cupboard etc incl.using the frame of channels congl'es angles and hats 7 M.S. sheet as per design incl. rivetings or weldings atc complete inc.3 coast of approved points(exclud.rate of angle).	74.92	Kg	5663.95
		Item No. 16			
0.58	Cum	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (Up to 10 ton)	2653.67	Cum	1539.13
		Item No. 17			

QTY.	UNIT	DESCRIPTION OF ITEM	RATE	PER	AMOUNT
1	2	3	4	5	6
4.00	Sqmt.	Providing and laying C.C flooring 1:2:4 (1cement 2coarse sand 4 graded stone aggregate 20mm nominal size) laid in one layer finished with a floating coat of neat cement (A) 50mm thick (upto 10 ton)	319.73	Sqmt.	1278.92
		Item No. 18			
		Providing corrugated G.I. sheet of class-3 roofing fixed with glavanished iron J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or G.I. limpet washer. filled with white lead complete excluding the cost of purlins, Rafters and Trusses.(1) 0.80 mm thick sheet. (upto 10 ton)			
6.25	Sqmt.	(i) Roof	719.93	Sqmt.	4499.56
		Item No. 19			
		Purchasing and supplying at site of work with Railway freight , loading , unloading and carting etc comp. such as joist, Channel, angles, Iron rail etc.			
0.096	MT	Size:- 25 mm x 25 mm x 3 mm thick	64838.00	MT	6224.45
		Item No. 20			
0.096	MT	Labour charges for Lowering, laying and fixing various size of M.S. section such as joints, channls , angles plates etc. complete with fabrication	11365.00	MT	1091.04
		Item No. 21			
34.72	Sqmt	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)	170.10	Sqmt	5905.87
				Total Rs.	979235.27

I / We am / are willing to carry out at _____% above / below
 _____(Percentage should be written in igures and wors)

Estimated amount **Rs. 979235.27**

% Above _____

Tender Amount in Rs. _____

In words. _____

Signature of Contractor

**Executive Engineer,
P.H.Works Dn,Bhuj**

Estimated amount Rs. **979235.27**

% Below _____

Tender Amount in Rs. _____

In words. _____

**Deputy Executive Engineer,
P.H.S.Sub-Dn.1 ,Bhuj**