

PADRANAGARPALIKA PADRA

BID DOCUMENTS FOR CONSTRUCTION WORK OF RCC ESR 13000 LITER CAPACITY & 12 MTR. HEIGHT AT PROPOSED MUKTIDHAM ON JASPUR ROAD AT PADRA NAGARPALIKA UNDER: MLA GRANT.(SECOND ATTEMPT).

SCHEDULE-B

Item No	DESCRIPTION	Qty.	Total	Per	AMOUNT
	RCC ESR (description of item for turnkey tender)				
	Designing structurally (and aesthetically) complying provisions of relevant Indian standards and constructing RCC Elevated service Reservoir of the following capacity and height , using latest Soil Investigation Report of proposed site , Seismic zone, Wind speed Zone. Including (1) Container shape any suitable type(or as specified), (2) Staging consisting of column brace trestle / shaft / combination column- brace trestle and shaft as appropriate (or as specified) and (3) Appropriate foundation system. This includes excavation in all types of soil strata(including hard rock), casting 100 mm thick P.C.C. levelling course in M-10, Refilling the pit with proper soil and disposing of the surplus stuff at all required lead. (4) This will also include cement plaster in CM 1:2 with approved water proofing compound all over inside container (i.e. walls, base, top slab/dome bottom etc. all). (5) All types of labour & material charges of lowering, laying, erecting / hoisting & joining of pipe assembly of Inlet, Outlet, overflow, washout and bye pass arrangement as per hydraulic design are including.				
	(6) Providing and fixing of any accessories(specified), CI Manhole frame and covers, water level indicator, lightening ductor, GI Pipe railing around walk way, at roof level, at gallery and around landing of inside shaft, Adequate cowl type ventilators or lantern type ventilator with stainless steel jali. (7) Scope of work includes constructing RCC spiral staircase with adequate tie beams, staircase footing ,Rcc chambers for valves. ventilating shaft and ventilators as well as door in shaft, SS grating to be provided to outlet pipe (inside container) for safety.(8) including providing and applying three coats of cement paint/snowcem (as specified) to the whole structure. (9) It also includes satisfactory water tightness test as per relevant I.S. Code and painting name of scheme & capacity on the tank as per direction of engineer in charge.				
	List of Indian Standards for design of ESR.				
	Note : The Structural design of ESR shall be in accordance with provision of				
	Relevant Indian Standards.				
	(1) I.S. 3370 part I & II 2009 or Its latest revision				
	(1.1) I.S. 3370 part III & IV 1965 or Its latest revision				
	(2) IS 456-2000 or Its latest revision				
	(3) IS 11682- 1985 or Its latest revision				
	(4) IS 1893-2002 part I to V or Its latest revision				
	(5) IS 13920-1993, or Its latest revision				
	(6) IS 875 part I to III,1987 or Its latest revision				
	(7) IS 11089- 1987 or Its latest revision				
	General Specifications.				
	(1) The Min. concrete grade for RCC shall be M :30. Proportion of concrete ingredients shall be as per Mix design using weigh batching.				
	(2) HYSD(Fe 415) or higher grade reinforcing bars confirming to IS 1786/1139 or CRS /TMT bars shall be used as per detailed specification.				
	(3) In case of column –brace trestle type staging having more than 6 columns internal horizontal bracing is obligatory. One bracing shall be at foundation level in case of Individual footings.				

Item No	DESCRIPTION	Qty.	Total	Per	AMOUNT
	(4) Min. size/ thickness of various components shall be provided as per design criteria/specifications/IS Code (or as per std. practice). Capacity of the ESR shall be considered excluding free board.				
	(5) Minimum dimensions specified for various components in tender data /specifications should be provided.				
	(6) The Safe bearing capacity (SBC) /allowable pressure on soil shall be referred from latest SBC test report or tender datasheet. During execution If poor soil strata or ground water table is encountered, the SBC shall have to be re ascertained and the design should be revised accordingly.				
	(7) Maximum spacing between horizontal bracings shall be 5 m (storey height).				
	(8) The BB Masonry cabin with MS door shall be constructed when spiral staircase is outside the staging.				
	(9) RCC Staircase/ MS Staircase shall be provided and fixed for access to roof when height of roof from G.L. is up to 10 m. For ESR having more than 10 m height proper RCC staircase or suitable RCC spiral staircase shall be constructed. Railing should be provided through out the staircase and around the top ring beam.				
	(10) For ESR-having staging height more than 15 m the spiral staircase shall be provided inside the staging with effective tie beams in more than one direction.				
	(11) Water level indictor shall be provided and fixed float type /electronic (as specified).				
	(12) The rate shall include providing and fixing pipes, specials, and valves required for inlet, outlet , wash out, over flow and bye pass arrangement. The scope of work includes constructing supporting RC pillars, erecting, laying ,fixing and joining pipes and specials etc up to 5m length from face of staging (outer most column).				
	(13) DI pipes & specials shall only be used .				
	(14) The rate shall include cost of dewatering during execution making all arrangement with any dewatering technique.				
	(15) The structure shall be designed properly for uplift due to Ground water table specified in data or GWT encountered during execution. No extra payment shall be paid for the same.				
	(16) Effective curing shall be carried out up to required period as per specifications.				
	(17) Agency shall engage qualified (at least graduate) consulting engineer for designing the structure and he/she shall visit the site for guidance of work at all levels (i.e. below foundation, up to GL, above GL for all lifts up to container).				
	(18) 75 % part rate shall be payable for Concrete, Reinforcement and Plastering items of container until satisfactory hydraulic testing for water tightness is performed. Or as per tender condition. Till then the work shall be treated as incomplete.				
	Above conditions / general specifications Sr. No. 1 to 18 are part & parcel of tender(contract).				
	As above up to staging height (L.S.L.) 12m from G.L. and S.B.C.10).				
	Capacity of ESRs (shell type container like cylindrical, conical, intze, folded plates & its combination)				
	For ESR 13000 . liter Cap. 12.00 Mt. Height Sesmic Zone 3				
	Up To 25000 Ltr Capacity	13000.00	32.90	Ltr.	427700.00
			Total,	Rs.	427700.00
			Add GST 18.00 %		76986.00
			Add QC 1.00 %		4277.00
			Total,	Rs.	508963.00
			Say, Rs.		508963.00

I / We am/are willing to carry out the work at _____ % above / below (percent should be written in figure and in words) of the estimated rates mentioned above. Amount of my/our tender works out as under.
(In words) _____ Percentage above / below the estimated rate.

Item No	DESCRIPTION	Qty.	Total	Per	AMOUNT
	Estimated Amount put to tender			Rs.	5,08,963.00
	Deduct _____ % below Rs.			Rs.	
	Net Amount			Rs.	
	Estimated Amount put to tender				
	Add _____ % above Rs.			Rs.	5,08,963.00
	Total Amount			Rs.	
	(In words) _____			Rs.	

***(Please strike out whichever is not applicable)**

Note :1 All work shall be carried out as per Public Works Department Hand Book and other specifications of Division or as directed.

Note :2 Rates quoted include clearance of site (prior commencement of work and its close) in all respects and hold good for work under.

Note :3 I/ We have read the conditions mentioned in this tender and agree to abide by the same.

In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design

Note :4 the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

Signature of Contractor

President
Padra Nagarpalika
Padra

Chief Officer
Padra Nagarpalika
Padra