



TENDER DOCUMENT

NIT No: SRO/CON/ETS/280

**Tender for Piling work for the project Provision of Administrative
and Logistic Infrastructure Under Wp-07 and Wp-5b At Naval
Station Rambilli Visakhapatnam – Package-03**

VOLUME – IV

Price Bid with Bill of Quantities

**ENGINEERING PROJECTS (INDIA) LIMITED
(A GOVT. OF INDIA ENTERPRISE)
Southern Regional Office, Chennai**

Bill of Quantities

NAME OF WORK : Tender for "Piling work for the project Provision of Administrative and Logistic Infrastructure Under Wp-07 and Wp-5b At Naval Station Rambilli Visakhapatnam – Package-03"

NIT NO.: SRO/CON/ETS/280 dated 11.06.2025

Item No	Description of items	Qty.	Unit	Rate excluding GTS (Rs.)	Amount excluding GST (Rs.)
SECTION A - BUILDING WORKS (Piling Works)					
1.0	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of Grade M-40 (Minimum cement content -as per design mix) of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic piling Rig all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). Note:. (i) Piles are to be founded with a socketting length into the appropriate strata as per drawing . (ii) Pile chipping and liner cutting as per drawing/ specification included in item				
1.1	500mmdia piles	696	Rmt	3,465.00	24,11,640.00
1.2	600 mm dia piles	2842	Rmt	3,685.00	1,04,72,770.00
1.3	750 mm dia piles	1380	Rmt	4,015.00	55,40,700.00
1.4	800mm dia pile	71	Rmt	5,610.00	3,98,310.00
1.5	900mm dia pile	690	Rmt	6,490.00	44,78,100.00
2.0	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Note: 1. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge. Single pile above 50 tonne and upto 150 tonne Safe capacity				-
2.1	Initial test (Test Load 2.5 times the Safe capacity)	2	Per Test	2,50,000.00	5,00,000.00
2.2	Routine test (Test Load 1.5 times the Safe capacity)	2	Per Test	1,25,000.00	2,50,000.00
3.0	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge. Single pile above 150 tonne and upto 200 tonne Safe capacity				-
3.1	Initial test (Test Load 2.5 times the Safe capacity)	2	Per Test	3,80,000.00	7,60,000.00
3.2	Routine test (Test Load 1.5 times the Safe capacity)	2	Per Test	1,25,000.00	2,50,000.00
4.0	Conducting routine vertical load test for 1.5 times safe load carrying capacity by means of High Strain Dynamic Load Test including provision and erection of crane- hammer-drop mechanism, acceleration and displacement velocity transducers to record both force and velocity including excavation, dewatering, preparation of pile head including building up of pile, additional reinforcement if any etc. all complete as per approved method (ASTM D4945-89), submission of test report, specifications and instructions of the Engineer for piles of following diameter :				-
4.1	500 mm & 600 MM dia	2	Per Test	85,000.00	1,70,000.00
4.2	800 mm, 900 & 1000 Dia	3	Per Test	95,000.00	2,85,000.00
5.0	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile :				-
5.1	Upto 50 tonne capacity pile	2	Per Test	35,000.00	70,000.00
5.2	Above 50 tonne and upto 100 tonne capacity pile	2	Per Test	50,000.00	1,00,000.00

Item No	Description of items	Qty.	Unit	Rate excluding GSTS (Rs.)	Amount excluding GST (Rs.)
6.0	M&L for Reinforcement using TMT CRS bars of Grade Fe-500D of all dia, cut to length, bent to shape required including cranking, bending, spirally for hooping for columns, hooking ends and binding with mild steel wire (annealed) not less than 0.9mm dia or securing with clips or welded complete all as specified and as directed.	216268	Kgs	71.06	1,53,68,003.37
7.0	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	300	per test	930.00	2,79,000.00
8.0	MS pipe liner fabricated out of 6mm thick plain MS plate confirming to Fe-410 S by welding, welding the joints, lengthening wherever required, providing stiffeners, lifting hooks including all T&P as required, painting with bitumen paint, shifting the same from position to positions required, driving in true vertical alignment in position to the required level for piles complete, all as directed by Engineer-In-Charge. Note: MS Pipe line shall be casted as mentioned in drawings. However for payment purpose, the depth of height of liner shall be measured upto cutoff level only irrespective of the depth provided for retaining concrete/ bentonite slurry . The unit rate/lumpsum price quoted shall demmed to include for the same.	358363	KG	34.00	1,21,84,337.92
	TOTAL				5,35,17,861.00
				Incl GST	6,31,51,076.00