

# DEENDAYAL PORT AUTHORITY



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No. PR/WK/2025/10 MW GH2/

Dated: 13/08/2025

## EXPRESSION OF INTEREST

**NAME OF WORK: 10 MW GH2 PLANT AT KANDLA –CONSTRUCTION  
OF VARIOUS CIVIL AND FABRICATION WORK FOR PLANT AND  
EQUIPMENT'S AT KANDLA.**

Sir,

Deendayal Port Authority intends to carry out the various civil and fabrication works for 10 MW Green Hydrogen Plant at Kandla under project division of Civil Engineering Department.

Kindly submit your Expression of Interest along with budgetary offer for the items of work enclosed at **Annexure-I**.

The rates quoted must be inclusive of Profit, required Materials, Labours, Equipment's, tools, Plants etc. all complete. The rate quoted must be excluding of GST but inclusive of all other taxes, duties. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your Expression of Interest along with budgetary offer for the above work should reach to the following address on or before **18/08/2025 by 17:00 Hrs.**

**Address;**

**Executive Engineer (P)**

Room No.105, Annexe Building A.O Building

Deendayal Port Authority,

Gandhidham, Kachchh -370201

M-97143 01528.

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**Executive Engineer (Project)**  
**Deendayal Port Authority**

**Annexure-I**

PROJECT	10MW DPA GH2,Kandla				
PARTICULARS	PRELIMINARY CIVIL STRUCTURAL & ARCHITECTURAL BULK BOQ				
Sl. No.	Description	Unit	Quantities	Rate	Amount
1	<b>EXCAVATION in Granular Sub Base(GSB) fill</b> for foundations, trenches, pits, walls, footings, including shoring, dewatering (as required), removal of debris and levelling.				
	a) 0.0 - 1.5 M depth	Cum	7739		
	b) 1.5 - 2.0 M depth	Cum	3084		
2	<b>COMPACTED BACK FILLING</b> with engineered earth fill comprising of predominantly granular material sourced from near by borrow pits (preferably Sand).	Cum	6932		
3	<b>Bored Cast In Situ Piles:</b> <b>600 mm dia - 20 m</b> long bored cast in situ piles with permanent MS liner 6 mm th for top 10m of the pile. Quantity per pile , i) RCC of M30 grade = 5.65 cum ii) Reinforcement( HYSD Fe 500 D CRS (Corrosion Resistant Steel) =510 kg iii) Boring length 22 m long including empty boring 2m. Chipping of concrete 1m.	Nos.	312		
4	<b>Plain Cement Screen Concrete (PCC):</b> Grade: M 7.5 (1:4:8)	CUM	115		
5	<b>Reinforced Cement Concrete (RCC):</b> <b>M 40</b> Grade Concrete with Ordinary Portland Cement (OPC) Minimum Cement Content is 390 kg/cum	CUM	2586		
6	<b>Reinforcement:</b> <b>High strength corrosion resistance coated deformed TMT bar</b> ( Fe 500 D Grade.as per IS 1786) Reinforcement for all RCC items including decoiling, cutting, hooking, bending, cranking including tying system with binding wires.	MT	341.5		
7	<b>Bituminous Paint:</b> Providing and applying 2 coats of Bituminous Paint on conc below GL including top surface of foundations with coal tar at least 1.2 kg/m2 per coat.	Sqm	5777		
8	<b>MASONRY WORK</b> Specifications of bricks shall be fly ash building bricks of Class 7.5 confirming to IS: 13757, at all heights and depths for retaining walls, wall footings, parapets, partitions, steps, drains, manholes, trenches, etc. including raking out joints staging scaffolding and curing, etc complete as specified				
	a) 230 mm thk brick masonry in CM 1:5	Cum	641		
	b) 345 mm thk brick masonry in CM 1:6	Cum	230		
9	<b>FLOOR FINISHES</b>				
	a) <b>IPS Floor finish with ironite hardner</b> - 50mm thk. IPS with metallic hardener topping . i.e providing & laying 38mm thk concrete flooring plus 12mm thk ironite hardner (To be used for floors of Switchgear rooms, electrolyser room, warehouse, workshop, pump house etc).	Sqm	2822		
	b) Providing and laying <b>Acid Alkali Resistant Tiles 600x600mmx 15 Thk</b> of an approved, quality, make, pattern and size for areas requiring chemical resistance conforming to IS:4457 including but not limited to provision of cement mortar(1:4) bedding 25mm thk, cutting , levelling, jointing, filling the joints in acid proof epoxy mortar of approved colour & Shades, curing , finishing etc. complete as per manufacturer's specification as directed by Engineer in charge.	sqm	253		
	c) <b>Vitrified Tiles Flooring</b> system with 15mm thk of 600 x 600 mm including skirting	Sqm	110		
	d) <b>False ceiling</b> system with 15mm thk gypsum board in tile form of 600 x 600 mm panels with aluminium frame supports.	sqm	273		
	d) <b>Roof Waterproofing Over RCC surface:</b> Water proofing in roof consist of <b>Polyurethane (PU) water proof coating, single component</b> (DFT 450 micron minimum) with 25 SWG chicken wire mesh laid to slope as directed by Engineer- In-Charge.	Sqm	1042		
10	<b>WINDOWS</b> <b>Electro colour coated (Anodised ) aluminium frame glazed</b> (glass min 4mm thk) window, including anodized aluminium grill, painting as per spec. and all other fittings.	Sqm	31.5		
11	<b>DOORS</b>				
	<b>Aluminium Door:</b> Providing and fixing in position anodised aluminium doors made of extruded tubular electrostatically powder coated (min. 30 microns) / anodised aluminium sections conforming to IS:733 and IS:1285 of "INDAL" or approved equivalent manufacturer with 6.3mm laminated safety glass at top conforming to IS:2553 fixed with rubber lining or EPDM gasket and extruded anodised aluminium beading, 100 x 45 mm bottom rails, 6.3 mm thick laminated glass glazing for top portion, bottom portion provided with 18 gauge aluminium sheet on both the sides with plywood packing in between, 2 Nos. full width handles 150 mm wide x 12 mm thick to each shutter including all accessories like , beadings, locking in arrangement, etc complete.	Sqm	92.5		
12	<b>ROLLING SHUTTER as per IS: 6248</b> a) Electrically Operated M.S Rolling shutter ( 0.9 mm thk M.S annealed strips ) with electrically operated including painting & all other fittings	Sqm	4.2		
13	<b>STRUCTURAL STEEL WORK</b>				
	<b>Structural Steel:</b> Fabrication and erection of structural steel (Grade - E250) conforming to Grade - A/BR, Semikilled / killed of IS-2062. Plates beyond 12 mm & upto 40 mm shall be normalised rolled. Plates beyond 40 mm shall be vacuum degassed & furnace normalised. The painting for structural steel works shall be as per follows - a) Surface preparation - Blast cleaning of steel surfaces up to Sa 2 ½ standard. b) Primer- Inorganic Zinc Silicate (65 DFT) c) Intermediate Coat: 2nd coat of HB Epoxy MIO2( 100 DFT) d) Finish Coat-Two pack Acrylic Polyurethane Paint (50 DFT) e) Total DFT as 215 microns (minimum).	MT	216		
	a) <b>Grating</b> :25mm thk electroforged steel grating with all fixtures.	MT	1		
	b) <b>Handrail</b> 1m high with 32 dia NB (MED) GI Pipe verticals at 1.5m c/c, 32 dia NB (MED) GI Pipe as top and middle runners and 100mm x 6 mm MS toe plate including all painting works as defined for structural steel & all other fittings.	RM	153		
	c) <b>M S Inserts</b> with anchors and painting	MT	5.5		
	d) <b>Chequered Plate 6thk.</b>	MT	5.6		

Sl. No.	Description	Unit	Quantities	Rate	Amount
	<b>BOLTS</b>				
14	a) 8.8 Grade bolts for permanent connection	MT	3.24		
	b) MS Foundation Bolts (4.6 grade)	MT	3.24		
	<b>SHEETING WORK</b>				
15	Providing corrugated galvalume sheets of approved colour, "METACOLOR" or equivalent fixing heads, neoprene washers, including laps and seals in accordance with Manufacturer's instructions including all fixtures like Barge board, Ridge piece, etc.				
	a) for Roofing & side sheeting system base metal thickness shall be 0.5 mm	Sqm	1555		
	b) Flashing without corrugation	RM	2260		
	<b>WALL FINISHES</b>				
16	a) Premium anti algal weather proof acrylic emulsion exterior paint with Silicon additives	Sqm	3480		
	b) Oil Bound Distemper(OBD) paint in Switchgear, MCC rooms, staircase areas and office rooms (internal & ceiling)	Sqm	5521		
17	150 mm NB(M) PVC Pipe conforming to IS-4985-2000 as dwn take pipe with all fixtures.	RM	334		
	<b>MISCELLANEOUS WORK</b>				
18	Water Stopper: 225 x 6mm thk PVC water stopper bar in liquid retaining structures	RM	65		
	<b>INFRASTRUCTURE WORK</b>				
	<b>FENCING</b>				
19	a) PVC coated chain link fence : 3m height PVC coated chain link Fencing with galvanising & MS angle post ISA 65x65x6 at every 3m c/c along with foundations.	RM	82		
	b) MS entry gates : Providing and fixing M.S. Gate consisting of 80 dia medium MS tube frame, 50mm X 6mm MS flats welded to frame with necessary MS clamps nuts, bolts, washers, hold fasts, 50 X 6 MS guide strips with hold fast, steel wheel, 2 coats of red oxide zinc chromate primer and two coats of aluminium paint of approved make with necessary fabrication, fixing, to required line and level drilling etc. complete as specified and directed.	Sqm	72		
20	100 mm th paving with M20 grade Reinforced concrete underlaid by 50mm thk. PCC(1:2:4) in the plant area. The reinforcement shall be 8 dia bars @ 200 mm c/c in both directions centrally placed	SQM	3200		
21	False flooring system -Removable type flooring shall consist of fire resistant phenol formaldehyde bonded particle board panels 600x600x35mm size, mounted on steel pedestals of adjustable height and supporting steel grid system to provide under floor space. RCC floor slab shall be sunk to a depth 1200 mm which shall be height of the false floor system.	SQM	111		
	<b>DRAINAGE</b>				
22	a) Open Brick Drain:Constructing open brick drain around the buildings as well as either side of approach roads of average size 450 X 500mm (average depth) laid over PCC 1:4:8 base block . Quantity per drain - PCC = 0.05 cum/m masonry works - 0.22 cum / m, plastering (12 mm th smooth finish) - 1.45 sqm / m	RM	2084		
	<b>Toilets</b>				
23	a) Gents Toilet with the following fixtures - 2 nos wash basin as per IS 2556 (IV), 2 nos frameless plate glass mirror, 1 hand dryer, 2 soap container, 2 flat back lipped front urinals of Hindustan Sanitaryware or equivalent make and 1 WC (western type) of hindustan sanitaryware or equivalent make complete with all pipe fittings & fixtures	Nos.	3		
	b) Ladies Toilet with the following fixtures -1 nos wash basin as per IS 2556 (IV), 1 nos frameless plate glass mirror, 1 hand dryer, 1 soap container and 2 WC (western type) of hindustan sanitaryware or equivalent make complete with all pipe fittings & fixtures	Nos.	2		
24	<b>PILE TEST</b>				
	<b>INITIAL LOAD TEST</b> :Carrying out load tests for initial vertical compression, pullout and lateral loading including all necessary equipment, tools and tackles, recording the pile load test results as per Consultant's specification and as directed by Engineer-in-Charge, and supplying the pile load test results in one original and three copies to the Consultant etc. complete on 600 mm diameter pile ( Pile provision and installation to be paid under relevant items.)Test Loads shall be as per Geotechnical Requirements/ Specifications/Test loads shall be 2.5 times of design load whichever is higher.				
a)	Compression:- Design Loads : Pv=200 MT	Nos.	2		
	Uplift :- Design Loads : Pu=75 MT	Nos.	2		
	Lateral:- Design Loads : H=10 MT	Nos.	2		
	<b>ROUTINE LOAD TEST</b> :Carrying out pile load tests on working piles for routine vertical compression, pullout and lateral loading including all necessary equipment , tools and tackles, recording the pile load test results as per Consultant's specification and as directed by Engineer-in-Charge, and supplying the pile load test results in one original and three copies to the Consultant etc. complete on 600 mm diameter pile.Test Loads shall be as per Geotechnical Requirements/ Specifications /Test loads shall be 1.5 times of design load whichever is higher.				
b)	Compression:- Design Loads : Pv=120 MT	Nos.	4		
	Uplift :- Design Loads : Pu=45 MT	Nos.	4		
	Lateral:- Design Loads : H=6 MT	Nos.	4		
	<b>PILE INTEGRITY TEST</b> : Conducting pile integrity load test by means of Sonic Pile testing Equipment ( NDT test ) or Design Equivalent test for 600 Dia Pile to measure Quality of pile construction, correctness of pile length, Integrity along pile length & location of major defects along pile which may not only affect its load carrying capacity but also have future implication with respect to durability & Reinforcement corrosion including all necessary arrangements such as small impact device (Hammer), highly sensitive accelerometer, Pile integrity tester, signal conditioning center, PIT Processor, an output device such as plotter /	Nos.	207		
25	Roof extractors - 4000CFM capacity aluminium fan, axial flow upward type, ceiling mounted on inclined portion for industrial use with weather protection cowl. Motor shall be designed for zone II C category	Nos.	16		
26	UPVC Pipe of approved material for Sewage lines including with laying and installation.	RM			
	a.300mm dia	RM	10		
	b.200mm dia	RM	40		