



DEENDAYAL PORT TRUST



Office of the Superintending Engineer,
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ISO 9001:2008 ISO 14001:2004

No: HW/WK/EOI/2628/217Ft.

Dated : 03/07/2026

To,
M/s

Expression of Interest

Sub. : Supply, Installation, Testing and Commissioning of 217 feet high mast Tri Colour National Flag of size 60' x 90' with complete design at Deendayal Port Authority at Kandla/Gandhidham.

Sir,

Deendayal Port Trust intends to invite e-tender for the subject work.

Kindly submit your budgetary-offer for the subject work on the basis of tentative requirements of items execute for work enclosed herewith.

The rates quoted must be inclusive of all taxes, & exclusive of GST.

Your budgetary offer for the above work should reach to the above mentioned address on or before 11/07/2026.

Thanking you,

Encl. : As above

Yours faithfully,

Sd/-

Superintending Engineer (H)
Deendayal Port Trust

Date :-

To,

The Executive Engineer (H)

Deendayal Port Trust

New Kandla

Sub. : Budgetary offer for the work of "Supply, Installation, Testing and Commissioning of 217 feet high mast Tri Colour National Flag of size 60' x 90' with complete design at Deendayal Port Authority at Kandla/Gandhidham".

Sr. No.	Item Description	Rate (in Rs.)	Qty	Unit
1	Supply, Installation, Testing and commissioning of 66 meter (217 feet) high outdoor hot dip galvanized polygon (20sides), monumental Flag mast in multiple sections with head frame having pulleys arrangement as per technical data sheet complete as per design requirement (This also includes Structural design part of High Flag Mast, erection using hydraulic crane including stress fit assembly with tools required, installation of wire ropes, winch, motor with accessories, aviation lights, lighting finial, fiber dome complete as per design requirement).		1	Set
2	Supply of Motorised (Mechanical / electrical system for raising and lowering mechanism of flag remote control, snap hooks, U-clamp, spring system with following inclusion i) Double drum winch suitable for 8 mm diameter wire rope for flag hoisting and integral motor with torque limiter, chain, sprocket complete as per design requirement for making this mechanism operational ii) 8 mm Galvanized wire rope for flag hoisting iii) 3 Numbers additional 6mm dia. safety wire rope iv) Decorative Lighting Finial v) Aviation lights 2 set.		1	Set

3	Supply of Foundation Bolts manufactured from special steel as per datasheet along with nuts, washers, anchor plate and template (24-36 Nos.), size 1800 x 40 mm or as per design requirement.		1	Set
4	Supply and Fixing of Constant glowing LED aviation obstruction light of appropriate size (3C x 2.5 Sq. mm), trailing copper armored PVC cable complete as per design requirement.		2	Set
5	Supply & installation of Specially designed 1000 Watt LED outdoor focus lights complete for façade lighting of National Flag with 3 years warranty as per standard and technical data sheet (including wiring & cabling work)		4	Set
6	Supply and Installation Light Fitting Pole of same make that of High Mast including erection and foundation of these poles of length 6m total in length above ground level (this mast shall be suitable for mounting of two LED fittings) (including wiring / cabling required to erect LED focus light on these Poles)		4	Set
7	Supply & Installation of Indian National Flag of size 60 ft. x 90 ft. made out of polyester fabric with reinforced super-strong nylon webbing on all 3 sides & eyelets complete as required (including flag mounting accessories like snap clamp, dog clamp, turn buckles, bobbins complete as required)		1	No
8	Supply, Installation, Testing and commissioning of 6 mtr. high mast pole for Flag in single section, Conic type - Taper model - Spinning seamless - Satin Finished - Internal manual winch with handle - Press SS 316 base plate - Stainless steel rope - Full Accessories including hanging pole & Stainless Steel cover lighting finial, 200 Mm Dia. Top Finail Ball complete as per design requirement including supply & installation of International Flag of size 6 ft. x 3 ft. made out of polyester fabric with reinforced super-strong		40	No

	nylon webbing on all 3 sides & eyelets complete as required (including flag mounting accessories like snap clamp, dog clamp, turn buckles, bobbins complete as required)			
8	Supply & Installation of Ornamental crown fiber dome with embedded MS Plate to be mounted on the flag mast. (GRP ornamental finial (Dome) shall be manufactured from unsaturated polyester resin and chop stand matt glass fiber of suitable GSM to have an overall required minimum thickness for GRP finial. The test certificate for the resin & glass fiber used to be supplied along with supplies. The finial is to be finished with aliphatic grade U.V Stabilized polyurethane paint coat)		1	No
9	Supply & Installation of Electrical 1.1KV XLPE grade cable system (including control panel to be installed inside flag mast including reversing switch, contactor, timer, MCB etc. complete) as per detailed technical specification and data sheet.		1	Set
10	Earthing for flag mast with 2.5 m long, 40 mm diameter GI Pipe including connection to flag mast with 25x3mm GI strip complete as per design requirement.		1	Set
11	Material and Labour for PU paint on High mast including light poles by application of suitable primer for hot dip galvanized surface complete with Colour shade choice.		1	Set
12	Civil Foundation Work as per design approved by any reputed Govt. Engineering college. Detailed design considering all factors including Soil bearing capacity, all live load, dead load, wind load, earthquake loads, etc. Detailed drawing, foundation design & drawing, Reinforcement detailment, load calculation shall be shared with DPA, Kandla after approval. Consider Pile Foundation of Min. 1200 MM Dia. Bored Cast-in-situ		1	Set

	<p>Pile of M-40 grade concrete Foundation upto (-) 34.00 Mtr. Depth or upto founding level with required Thickness of Pile Cap/Raft and other ancillary civil work etc. for beautification surrounding area as directed by Engineer-in-charge.</p> <p>Note : The bidder will get the bearing capacity tested, before designing the foundation. The design calculation shall also be supplied by the bidder. The design can be got rechecked by the DPA & if there is any expenditure on this account the same shall be borne by the bidder.</p>			
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Note : Rates shall be exclusive of GST



TECHNICAL DATASHEET FOR 66 Mtr. HIGHMAST FLAG SYSTEM

Sr. No.	Parameter / Details of Item	Requirements	Bidder Confirmation
1	FLAG MAST SYSTEM		
	Height of mast	66 Meter (217 Feet)	
	Make	Bajaj/Valmont/ Transrail/ Lysaught or equivalent per IS Standard	
	No. of Sections	7-9 sections (or as per OEM design for 66 meter height)	
	Material construction	Low Silicon ($\leq 0.06\%$) High Tensile Steel Sheet as per IS 2062 / BS EN 10025 Equivalent.	
	Grade of Steel	IS 2062 grade E350 / BS EN 10025 grade S355 or Equivalent	
	Thickness of section	Bottom 8-10 mm Top 6-8 mm (as per design) (remaining sections thickness 8 mm to 10 mm)	
	No. of circumferential welds/ section	Only between base plate and shaft	
	Cross section of Mast	Polygonal (20-sided polygon)	
	Base diameter and top diameter (A/F)	Top - 230-280 mm, Bottom- 1250-1350 mm (or as per design)	
	Metal protection treatment for Mast Section	Hot Dipped Galvanized As per BS EN ISO 1461	
	Size of opening door at base	1200 x 300 mm	
	Diameter of base plate	1550 – 1700 mm	
	Thickness of base plate	50 – 70 mm	
	Grade of Steel for Base Plate	E250 Grade as per IS 2062 or Equivalent	
	Decorative finial / Finish	Glass Fiber Reinforced Finial (Dome)/ Aliphatic grade U.V Stabilized polyurethane paint	
	Max. wind speed	As per IS 875 Part III	
2	FOUNDATION BOLTS		
	Number of foundation bolts	24-36 nos. (or as per design requirement)	
	PCD of foundation bolts	High Tensile Stud as per requirement of	
	Grade of Foundation Bolts	approved design. (1800 mm x 40 mm)	
	Bolt diameter/Length		
3	CABLE		

	Type	Power Cable	
	Material	Copper conductor XLPE insulated PVC sheathed, Armoured	
	Conductor size	2.5 sq. mm	
	No. of cores	3 Core	
	No. of circuits	Single	
4	WINCH (Suitable for 8 mm wire rope)		
	Number of drums/winch	Double drum	
	Capacity	750 Kgs. or more as per design requirement	
	Method of operation	Manual and Electrical	
5	GALVANISED WIRE ROPE		
	Grade	Galvanized	
	Number of ropes	8 mm rope for flag hoisting & 3 No additional for standby and safety rope	
	Construction	7/19	
	Diameter (MM)	8 MM	
	Breaking load capacity	Minimum 4000 kg or as per design requirement	
6	POWER TOOL		
	Type	Integral motor and IE-2 BIS Certified	
	Input supply	3 Ph., 415V AC	
	HP/Number of Poles	HP required minimum for raising and lowering mechanism (or as per design)	
	Reversible/Non-reversible	Reversible	
7	TORQUE LIMITER		
	Lifting capacity	As per design requirement	
	Adjustable/Non-adjustable	Adjustable	
	Tripping device	Mechanical	
8	AESTHETIC FINISH		
	Flag Mast Shaft	Polyurethane (PU) paint over the galvanized surface	
	Overall Coat thickness (Galvanization + PU Paint)	Minimum 180 Microns (to be checked on site, firm to submit test result for thickness)	
9	LED FOCUS LIGHT		
	No of lights	4 (1 on each pole)	
	Type of light/ Watt	LED focus light/ 1000 watt	
	Protection	IP65 and above	
	Make	Phillips/ Syska/ Havells/ Bajaj or	

		equivalent as per IS standard	
10	INDIAN NATIONAL FLAG (TRI COLOUR)		
	Size	90 Ft. x 60 Ft.	
	Material	Polyester fabric with reinforced super strong nylon webbing	

List of Approved Materials

- High Mast and lighting Pole : Bajaj/Valmont/ Transrail/ Lysaught or equivalent per IS Standard
- Motor. : Crompton/Kirloskar/Bajaj/HEM (Hindustan Electric Motors)/Havells.
- LED fittings : Phillips/ Bajaj/ Havells
- Aviation light. : Bajaj/Philips or equivalent
- PU Paint : Surya/MRF or equivalent
- Polyester resin for Dome : Orsons or equivalent as per standard
- Matt Glass for Dome: Owens Corning or equivalent
- Inverter :- Microtek/ V-Guard/Luminous or equivalent
- Battery: - Exide/Amara Raja/or Equivalent or equivalent

Note :-

1. Bidder has to make detailed survey and assure the DPA that, the proposed 217 feet high mast Tri Colour National Flag of size 60' x 90' will be the tallest and largest Tri Colour National Flag of Kutch District.
2. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
3. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
4. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

5. APPLICABLE STANDARDS

- IS Code Item Detail
- TR No -07 High Masts for Lighting and CCTV
- SANS 10225:2012 High Mast natural frequency calculation
- IS 875 Part – 3-2015 Wind Loading
- IS 2062/ BS EN 10025 High Tensile Steel Sheets
- IS 2062 Mild Steel Plates
- IS 209 Zinc Ingot
- BS EN ISO 1461 Galvanization
- IS 3459 / 2266 Stainless steel Wire rope
- IS 7098 XLPE Insulated PVC sheathed Cable
- IS 12615 Motor

All Material third party test certificate shall be submitted by successful bidder after award of contract and before commencement of work.