



PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
O/o ADDITIONAL DIRECTOR GENERAL (E) (WZ)
ALL INDIA RADIO & DOORDARSHAN
OLD C.G.O. BUILDING, 3RD FLOOR
101, M.K.ROAD, MUMBAI-20.



ENGP (100 KW MW DRM TR Panaji Mast) 11TR/ 2018-19

Date: 21.12.2018

Sub: Budgetary quote for the work as per sheet attached at AIR Panaji.

Sir,

This office is interested to carry out the work of Repair and Renovation **work of 110 meter self-radiating 2Nos. Mast of AIR Panaji**. Please submit/email the budgetary quote/estimate in your company's letter head with signature to this office at the earliest not later than **31/12/2018** for the decision of estimated price of the work.

Sr. No.	Description of Stores/works	Qty	Rate	Amount	Remark
1)	Checking of Mast structure & replacement of damage & rusted fasteners for radiating Mast.	1 Job 2 Masts			
2)	Supply & replacement RF chokes - 57 Nos. Guy Insulator A-S6013M- 02 Nos. Guy Insulator A-S5008M- 02 Nos. Guy Insulator A-S4006M- 02 Nos. Egg Insulator AOA-85 - 20 Nos.	1 Job			
3)	<p>Replacement of Guy wire ropes to be done. Fabrication of different lengthen 16/11MM Φ Galvanized steel wire rope links having termination at both ends made of hot dip Galvanized MS Open Spelter socket type and fasteners of hot dip galvanized MS/SS 30MM Dia Bolt, Nut & Split pin, etc.</p> <p>For installing open spelter socket Thermo Set Resin / Hardener Wire lock W 416-7 socket compound has to be used for filling open spelter socket and gripping the 16/11 MM Φ steel wire rope.</p> <p>For the last link near the ground, socketing has to be provided at one end only as the other end will be anchored to the ground using clips. Sufficient extra length of at least 6M has to be left at anchoring end. The wire links have to be strong enough to withstand Max tension.</p> <p>Note:</p> <ol style="list-style-type: none">Lengths of each links are shown in Drawing16/11 MM Φ Galvanized Steel wire rope, spelter socket, Thermo Set Resin / Hardener Wire lock W 416-7 socket compound, 30MM dia. bolts and nuts for fastening and other required items have to be supplied by Tenderer.10% of wire link samples will be tested for max tension. <p>Aluminium Sleeve/Ferrule has to be used for splicing of 16/11 sq.mm Galvanized Steel rope.</p> <p>All required terminations as shown in diagram like Thimbles, end connectors, etc. should be of Hot dip galvanized MS/SS make suitable for 16/11MM Φ rope must be supplied & installed by tenderer.</p> <p>-10% of samples will be tested for max tension.</p> <p>-Complete Guy wire from Tower to Ground Anchoring has to be prepared /assembled on ground.</p> <p>Then the assembled complete guy wire ropes have to be hoisted from the tower to the Ground.</p> <p>At the Ground end, anchoring will be carried out using Aluminium plates in the same manner as the existing arrangement.</p> <p>Hot dip Galvanized MS Wire clip G-450 (Cross by 1010177 Bull dog clip) 5/8 inch size shall be used for anchoring.</p> <p>At the tower end the anchoring has to be carried out using existing plates / arrangement on the tower.</p> <p>Before dismantling each of the guy wire rope, poly Propylene Rope (25 sq.mm or 1 inch Dia.) Garware make has to be hoisted between tower and Ground anchor as alternate to the Guy wire rope with proper Tension.</p> <p>Replacement of only 1 guy wire rope has to be carried out at a time. Guy wire rope has to be de-hoisted carefully so that no damage is done to the RF Guy</p>	2 Masts			

	insulators. If any insulators are broken then Tenderer has to replenish the same or equivalent. Greasing of Guy wire rope to be done.				
4)	Supply & Replacement & fixing i) Bulldog grips 108 Nos. ii) Thimbles 48 Nos. iii) Split pin 12 Nos. iv) Turn Buckles 18 Nos. Nut & Bolts with washers of various types etc. required for installation. All required terminations as shown in diagram like bulldog grips, Thimbles, split pin, Turn buckles, Nut & Bolts etc. should be of Hot dip galvanized MS/SS make suitable for 16/11 MM Ø rope must be supplied and installed by Tenderer. 10% of samples will be tested for max tension.	1 Job			
5)	Aviation Lights: Tenderer has to supply and install 18Watts 9 Nos of LED Aviation Lights/Bulb along with complete assembly & install 2 Nos at each of the designated sections of the Mast. New Galvanized M.S. junction boxes have to be installed at each of these stages with MCB's for proper termination of the power supply cables.	2 Set			
6)	Painting: The tower has to be painted with coastal climate Anti rust type special polymer paint. Tower has to be painted with 1 coat of poly Epoxy primer IS 5666 as per and 2 coats of Poly epoxy paint IS2932 in alternate bands of Orange and White as per Aviation Standard. Paints & all material required to be supplied by tenderer.	2 Masts			
7)	Guy wire Tension has to be adjusted such that verticality and twist of the mast is within the AIR specifications limit of (Max 2') of the arc subtended at the base of structure after the repair and the twist of the mast members will not exceed ½ degree/30 minutes. <u>Verticality to be tested by AIR approved third party.</u> <u>Cost will be borne by the supplier.</u>	2 Masts			
8)	Insurance of the Mast for Rupees 5 Crores while working on the mast.	1 Job			
9)	Checking of Verticality of mast after the repair from IIT/NIT/Any Govt.Engineering College & corrective action if required (Verticality limit as per AIR Specification - 2' Maximum)	1 Job			
10)	Repair of corona rings & supply & replacement of spark balls for Mast.	2 Masts			
11)	Any other material or work that is required to complete the job will be provided by tenderer.				
				TOTAL	
				GST%	
				GRAND TOTAL	

Suggestive drawing No. TM-11613 enclosed for reference.

भवदीय / Yours faithfully,

K. S. Lakhane
21/12/2018

(के. एस. लखने / K. S. Lakhane)

सहायक अभियंता/Assistant Engineer

कृते अपर महानिदेशाक (अभि)(प.क्षे.)/O/o ADG (E) (WZ)