



DIRECTORATE GENERAL, CRPF
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No. B.V-7-C/2026-27-C (Pneumatic)-QR CELL

Dated, the Aug'2026

Subject: - REQUEST FOR COMMENTS OF STAKEHOLDERS /OEM/FIRMS ON DRAFT QRs & TDs OF "PNEUMATIC TELESCOPIC MAST" REGARDING.

The Draft QRs/TDs of "**Pneumatic Telescopic Mast**" are attached as **Appendix 'A'**. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their product against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details: -

- Whether you are OEM/Vendor?
- If vendor, details of OEM required.
- Authorization certificate from OEM.

2. The required information/details may please be forwarded at the following addresses by go **Aug'2026**.

Communication Directorate, CRPF

East Block-7, Sec-1, R.K. Puram, New Delhi-110066

Email: comncell@crpf.gov.in

3. An early response is requested.

(Megh Raj)

DIG (Equipment)
Communication & IT Branch
Directorate General, CRPF

Draft QRs/TDs of Pneumatic Telescopic Mast

S.N.	Parameters	Specification	Trial Directives
1	Fully erected height	21 meters $\pm$ 0.2 Meter	Board will check practically.
2	Fully retracted height	3.6 meters $\pm$ 0.1 Meter	Board will check practically.
3	Head load	Minimum 12 Kg at full extension	Board will check practically.
4	Diameter of body section (main mast)	not exceeding 135 mm	Board will check practically.
5	Guy ropes	SS-304 grade of 4mm diameter	Board will check practically & Firm will submit Certificate of Govt/ NABL accredited Lab for Material
6	Guy radius	7 meters	Board will check practically.
7	Total no of Guy ropes	12 No. (3X4) for three peg system	Board will check practically.
8	Application	Ground Mounting	Board will check practically.
9	Type of operation	Pneumatic-Foot pump operated/Motorised System (as per user requirement)	Board will check practically.
10	Sway	$\pm 3^\circ$	Firm will submit OEM certificate.
11	Rotation Azimuth	$\pm 180^\circ$ azimuth plain	Board will check practically.
12	Environmental specs	MIL-STD 810F or better or JSS-55555 as per table L2G: - High temperature, Low temperature, Rapid temperature cycling, Mould growth, Corrosion(salt) or better	Firm will submit certificate of any Govt. Lab or NABL or ILAC accredited laboratory.
13	Weight of mast	75 Kg $\pm$ 5%	Board will check practically.
14	Guy Anchor	3 Nos Galvanised T-Iron angle of minimum 1100 mm long with arrangement for fitment 4 Nos. guy ropes	Board will check practically& firm will submit Certificate of Govt/ NABL accredited Lab for Material

15	Base plate	SS-304 grade Plate of minimum 500 mm x 8 mm dimensions with Cup & Nails of minimum 600 mm x 16 mm size (as per requirement)	Board will check practically& firm will submit Certificate of Govt/ NABL accredited Lab for Material
16	Standard accessories		
(i)	Hammer (5 lbs with wooden handle)		Board will check practically.
(ii)	Foot pump: Double cylinder, max air volume: 650 cu cm per stroke with 2-meter-long rubber pipe having brass nozzle at open end to match with pneumatic mast nozzle. User may opt for compressor suiting the requirement		Board will check practically and firm will also submit certificate of any Govt. Lab or NABL or ILAC accredited laboratory.
(iii)	Lightening protector complete system only for 21 Meter mast (User required to specify length of antenna)		Board will check practically.
(iv)	Clamps for mounting head load (As per user requirement)		Board will check practically.
17	Description		
(i)	The mast should be made of high strength heat treated aluminium alloy HE 30-T6/ HE 9-6063-T6, light weight and high tensile along with precision machine guide, locking collars and guy holder.		Firm will submit certificate of any Govt. Lab or NABL or ILAC accredited laboratory.
(ii)	The mast should be erected by using a foot pump/ Motorised System (as per user requirement)		Board will check practically
(iii)	The mast should withstand wind speed of up to 120 Kms/ hour for short duration and 80 Kms / hour for regular operation with the all guys ropes tightened		Firm will submit OEM certificate.
(iv)	The mast should stay in erected conditions without air pressure for long periods. Each tube moves on Teflon bearing and high-quality air seals.		Board will check practically.
(v)	Each section should be hard anodized & the body along with locking guide & guide collars is Olive Green Spray painted / powder coated.		Firm will submit OEM certificate
(vi)	All mild steel parts should be a hot dip galvanized to with stand harsh environmental conditions		Firm will submit OEM certificate.
(vii)	The complete mast system should be included all needed accessories for its erection, such as base plate, spikes, foot pump/Motorised system, pegs, hammer, guy ropes, guy tensioner, clamps etc.		Board will check practically
(viii)	Base plate with cup, nails (base spike), guy tensioner and clamps etc should be made of SS-304 Material.		Board will check practically& Firm will submit Certificate of Govt/ NABL accredited Lab for Material
(ix)	Arrangement for fitment of ground plain antennas on the top of the mast (User required to specify the antenna)		Board will check practically.