DIRECTORATE GENERAL, CRPF
EAST BLOCK-7, SECTOR-1, R.K PURAM, NEW DELHI-66
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No. B.V-7/2025-26-C-(Latticed Mast)-QR CELL Dated, the 04 Aug'2026

To

1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
2. Director, DCPW

Subject: QRs/TDs OF "TRIANGULAR LATTICED AERIAL MAST (G.I.)" REGARDING.

I am directed to refer to the subject mentioned above and to say that the QRs/TDs of "**Triangular Latticed Aerial Mast (G.I.)**" have been approved by the DG CRPF after due deliberations and as per recommendations of Sub-Group of Technical Experts from CAPFs and experts from DCPW.

2. Hence, QRs/TDs of "**Triangular Latticed Aerial Mast (G.I.)**" forwarded earlier vide letter No. B.V-7/2013-14-C-(QRs)-(9)-9647 dated 21/09/2014 stand rescinded please.

Encl:-As above

04/08/2026

(Megh Raj)
DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

No. B.V-7/2025-26-C-(Latticed Mast)-QR CELL Dated, the 04 Aug'2026

Copy to:-

1. Mr. Deepak Kumar, Technical Director, 34016, 4th Floor, Kartavya Bhawan 3, Janpath Road, MHA, New Delhi-110001 (e-mail ID: deepakg@gov.in) with request to upload the QRs/TDs of "Triangular Latticed Aerial Mast (G.I.)" on MHA website and QRs/TDs forwarded earlier vide letter No. B.V-7/2013-14-C-(QRs)-(9)-9647 dated 21/09/2014 stand rescinded please.

Encl:-As above

04/08/2026

(Megh Raj)
DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

QRs/TDs TRIANGULAR LATTICED AERIAL MAST (G.I)

S.N	Parameters	Specifications 80 feet	Specifications 60 feet	Trial Directives
01	a) Total Height of Latticed Mast	80 Feet	60 Feet	BOO will check physically
	b) Number of Sections	08	06	BOO will check physically
	c) Height of One section	10 Feet with a cross section of 9 Inch on all sides	10 Feet with a cross section of 9 Inch on all sides	BOO will check physically & measure the dimensions with standard measuring tools
	d) Vertical Member	Galvanized M.S. Pipe of 1.25 Inch Outer diameter with 2.5 mm thickness ± 5%	Galvanized M.S. Pipe of 1.25 Inch Outer diameter with 2.5 mm thickness ± 5%	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
	e) Bracing	Galvanized M.S. Rod of 8 mm diameter ± 5% Maximum 9 Inch Bracing gap	Galvanized M.S. Rod of 8 mm diameter ± 5% Maximum 9 Inch Bracing gap	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
	(f) Joint	Each section should have coupling/ joining arrangement with an angle iron of 40 mm x 40 mm x 6 mm (± 5%) size at each end.	Each section should have coupling/ joining arrangement with an angle iron of 40 mm x 40 mm x 6 mm (± 5%) size at each end	BOO will check physically & measure the dimensions with standard measuring tools
2	Top Plate	M.S Plate of 5mm ± 5% thickness having arrangement for installation of vertical and horizontal antenna	M.S Plate of 5mm ± 5% thickness having arrangement for installation of vertical and horizontal antenna	BOO will check physically & measure the dimensions with standard measuring tools

S.N	Parameters	Specifications 80 feet	Specifications 60 feet	Trial Directives
3	Base Plate	Hot dip Galvanized MS Plate of size 450 x 450 x 10 mm (± 5%) with Hinge arrangement for erection and putting down	Hot dip Galvanized MS Plate of size 450 x 450 x 10 mm (± 5%) with Hinge arrangement for erection and putting down	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
4	Base Spike	G.I of 600 mm x 16 mm dia ±5% (4 No.)	G.I of 600 mm x 16 mm dia ±5% (4 No.)	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
5	Guy ropes stainless steel	3 No. 6 mm Diameter ± 5% steel GI Guy ropes at height of 20 Ft, 40 Ft, 60 Ft and 80 Ft., Total 12 Nos. Total length of guy ropes should be 320 Mtr.	3 No. 6 mm Diameter ± 5% steel GI Guy ropes at height of 20 Ft, 40 Ft and 60 Ft i.e. total 09 Nos. Total length of guy ropes should be 240 Mtr	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
6	Guy anchor	3 No. stakes/guy anchors of T-iron angle of size 50 mm x 50mm x 6 mm and 900 mm (± 5%) long having Arrangement for fitment of 4 Nos. D Shackles.	3 No. stakes/guy anchors of T-iron angle of size 50 mm, X 50mm x 6 mm and 900 mm (± 5%) long having Arrangement for fitment of 3 Nos. D Shackles	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
7	Grade 304 stainless steel Straining Screws	12 No. of size 5/8" x 12" ± 5%	9 No. of size 5/8" x 12" ± 5%	BOO will check physically & measure the dimensions with standard measuring tools

S.N	Parameters	Specifications 80 feet	Specifications 60 feet	Trial Directives
8	Grade 304 stainless steel D Shackles	12 No. of size 3/8" ± 5%	9 No. of size 3/8" ± 5%	BOO will check physically & measure the dimensions with standard measuring tools
9	Grade 304 stainless steel Thimbles	24 Nos.	18 Nos.	Board will check practically
10	Grade 304 stainless steel Bulldog Clamp	48 No of¼" size	36 No of ¼" size	Board will check practically
11	Grade 304 stainless steel Nuts & Bolts	As on required basis	As on required basis	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically
12	Base plate, Nails (base spike), Pegs, guy tensioner etc. should be made of hot dip Galvanized and of specification describe above.			Board will check practically
13	Lightening Arrester & Antenna Bracket: -			
	Lightening arrester	4 Ft long made of copper	4 Ft long made of copper	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check practically & measure the dimensions with standard measuring tools
	Lightening conductor	Copper wire of 8 SWG 120 ft long	Copper wire of 8 SWG 100 ft long	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check practically & measure the dimensions with standard measuring tools

S.N	Parameters	Specifications 80 feet	Specifications 60 feet	Trial Directives
	Antenna bracket	Antenna bracket for installation of antenna (As per user organization requirement)	Antenna bracket for installation of antenna (As per user organization requirement)	Board will check physically
	Earthing Rod	6 ft long G.I of 15 mm with copper coating of 2 mm	6 ft long G.I of 15 mm with copper coating of 2 mm	Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check physically & measure the dimensions with standard measuring tools
14	Specification for Installation kit for erecting of 60/80 FT Latticed Aerial Mast (Optional)			
	a) Derrick assembly: - Derrick assembly should be made of hot dip galvanized MS Pipe, whose outer diameter is of 76 mm ± 5%, wall thickness to be 4 mm and having total length of 25 feet split in to 3 sections of 10ft + 10ft+5 ft duly flanged with suitable GI Guy Wires, Pulley mechanism and pulling Cable to lift 80 ft Latticed Mast			Firm will submit Certificate of Govt/ NABL accredited Lab for Material and BOO will check practically & measure the dimensions with standard measuring tools
	b) Tirfor Pulling & Lifting Machine of minimum one-ton capacity			Board will check it physically as well as vendor will provide certificate from any Government accredited laboratory about machine capacity
	c) Hammer Sledge of 5 kg weight with wooden handle			Board will check it physically as well as with the help of weighting machine
	Safety Belt of ISI/BIS Mark			Board will check physically

S.N	Parameters	Trial Directives
Note: - The aerial installation kit should be compatible with any kind of 60/80 ft Latticed aerial mast.		
15.	First time installation done by the firm (Optional)	Firm will provide certificate in this regard
16.	Trolley System for hoisting/de-hoisting of antenna & cable/Lightning arrestor	Board will check practically

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Approved/ Not Approved

(Gyanendra Pratap Singh, IPS)

DG, CRPF