No. B.V-7/2013-14-C (QRs)-(9) *9 ि ५ ने* भारत सरकार/Government of India गृह मंत्रालय/Ministry of Home Affairs पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division संभरण-I डेस्क /Prov.I Desk

26, Man Singh Road, Jaisalmer House, New Delhi, the **21**November, 2014

To.

The DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject: QRs and Trial Directives of Triangular latticed Aerial Mast (G.I.).

The undersigned is directed to refer to the subject mentioned above and to say that the QRs and Trial Directive in respect of Triangular latticed Aerial Mast (G.I.) as per Annex-I and Annex-II respectively have been approved by the competent authority in MHA.

- 2. Henceforth, all the CAPFs should procure the above item required by them strictly as per the laid down QRs.
- 3. Concerned CAPF will be accountable for correctness of QRs.

Yours faithfully,

K Sivastava)

Under Secretary to the Govt. of India

Encl: As above.

Copy forwarded for necessary action to:

SO (IT), MHA - with the request to host the QRs and Trial Directives of Triangular latticed Aerial Mast (G.I.) on official website of MHA (under the page of Organizational Set up, Police Modernization Division-Communication Eqpts.). Soft copy is being sent through email also.

(R. K. Soni) Section officer (Prov-I)

Copy to: Director (Procurement), MHA

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QRs/ SPECIFFICATIONS OF TRIANGULAR LATTICED AERIAL MAST (G.I.)

SI. No.	PARAMETERs	DESIRED SPECIFICATION FOR 80 Feet	DESIRED SPECIFICATION FOR 60 Feet		
1	a) Total Height of Latticed Mast	80 Feet	60 Feet		
	b) Number of Sections	08	06		
	c) Height of One section	10 Feet	10 feet		
	d) Vertical Member	M.S.Rod of 16 mm dia ± 5%	M.S.Rod of 16 mm dia ± 5%		
	e) Bracing	M.S.Rod of 7 mm dia ± 5%	M.S.Rod of 7 mm dia ± 5%		
	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.		
2	Top Plate	M.S Plate of 5 mm ± 5% thickness having arrangement for Installation of vertical and horizontal antenna.	M.S Plate of 5 mm ± 5% thickness having arrangement for Installation of vertical and horizontal antenna.		
3	Base Plate	Hot dip Galvanized MS Plate of size 450 x 450x 6 mm (± 5%) with Hinge arrangement for erection and putting down.	Hot dip Galvanized MS Plate of size 450 x 450x 6 mm (± 5%) with Hinge arrangement for erection and putting down.		
4	Base spike	G.I of 450 mm x 16 mm dia ± 5% (4 Nos)	G.I of 450 mm x 16 mm dia ± 5% (4 Nos)		
5	Guy ropes stainless steel	3 No. 6 mm Diameter ± 5% steel Gl 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.		
6	Guy anchor	3 No. stakes/guy anchors of Tiron 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 Tiron angle of size 50 mm x 50mm x 6 mm and 900 mm (± 5%) long having Arrangement for fitment of 3 Nos. D Shackles.		
7	Straining Screws	12 No. of size 5/8" x 12" ± 5%	9 No. of size 5/8" x 12" ± 5%		
8	D Shackles	12 No. of size 3/8" ± 5%	9 No. of size 3/8" ± 5%		
9	Thimbles	24 Nos.	18 Nos.		
10	Bulldog Clamp	48 No of 1/4" size	36 No of ¼" size		
11	Nuts & Bolts	As on reqd. Basis.	As on reqd. Basis.		
12	Base plate, Nails (base sp dip Galvanized and of spe	pike), Pegs, guy tensioner & clamp cification described above.	ps etc should be made of hot		

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13	Lightening Arrester & An	tenna Bracket:-	·							
15	Lightening Arrester & Arr	terma bracket.								
	a) Lightening arrester	4 Ft long made of copper	4 Ft long made of copper							
	b) Lightening conductor	Copper wire of 8 SWG 100 Ft long								
	c) Antenna bracket	Antenna bracket for installation of antenna(As per user organization requirement)	Antenna bracket for installation of antenna (As per user organization requirement)							
	d) Earthing Rod	6 ft long G.I of 15 mm with copper coating of 2mm	6 ft long G.I of 15 mm with copper coating of 2mm							
SPE		LLATION KIT FOR ERRECTION OF	60/ 80 FT LATTICED AERIAL							
1	outer diameter is of 76 m	assembly should be made of hot di nm ±5%, wall thickness to be of 4m of 10ft + 10 Ft + 5 ft duly flanged								
2		chine of minimum one ton capacity								
3		veight with wooden Handle.								
4	Safety Belt of ISI/BIS Ma									
Note:		should be compatible with any kind of	60/80 ft. Latticed aerial mast.							
	Yadav, AC (Tech), CRPF)									
(MS)	Yadav, AC (Tech), CRPF)		, SSÓ (E), BPR&D)							
	Kumar, DC (Comn), ITBP)	In Wi								
(Sunil Kumar, DC (Comn), ITBP) (Ravi Ranjan PC (Eqpt), BSF)										
(Pavin	Pan'ndra Keunan ndra Kumar, Sqn Comdr, No	SG) Wirondra Rarawa	DIC(East) CDDE)							
	Ravindra Kumar, Sqn Comdr, NSG) (Virendra Ágrawal, DIG(Eqpt), CRPF)									
(Shaile	endra Kumar, IG (Comp) e	ÆPF)								

Approved/ Not Approved

(Pranay Sahay, IPS)



TRIAL DIRECTIVE OF 60/80 FEET TRIANGULAR LATTICED AERIAL MAST (G.I.)

of the Latticed Mast. Trial of Latticed Mast will be conducted by a Board of Officers in the presence of Vendor or representative of Vendor/Firms to assess actual performance

Physical Checks: In this category specifications of the equipment will be checked physically as per QRs. All parameter / Specifications mentioned in the QRs will be checked by board of officers by ascertaining /verifying following checks

Functional Check:- The vendors will show all features/ configuration of the equipment to the board of officers during technical evaluation.

provided by vendor/firm during physical trial of the equipment during trial. Submission of certificates: - Specification which can not be checked due to lack of testing facilities/ expertise, a certificate of test shown against each will be

Board will checked Physically and measure size with the help of standard measuring tools.	G.I of 450 mm x 16 mm dia ± 5% (4 Nos)	Nos)	C C C C C C C C C C C C C C C C C C C	
measure size with the help of standard measuring tools.	arrangement for erection and putting down.	arrangement for erection and putting down.	Raco cniko	4
Board will check Base Plate Physically and	Hot dip Galvanized MS Plate of size	Hot dip Galvanized MS Plate of size 450 x 450x 6 mm (± 5%) with Hinge	Base Plate	ω
Board will measure diameter with the help of standard measuring tools.	W.S Plate of 5 mm ± 5% thickness having arrangement for Installation of vertical and horizontal antenna.	having arrangement for Installation of vertical and horizontal antenna.		
to mine manage opiniophilisassis, presente prese		MS Plate of 5 mm + 50/ thickness	Top Plate	N
	5%) size at each end.	6 mm (± 5%) size at each end.		
	ment wit	an angle iron of 40 mm v 40 mm v		
	Each section should have	Each section should have	f) Joint	
standard measuring tools.	± 5%	±5%		
Roard will mooning tools.	M.S.Rod of 7 mm diameter	M.S.Rod of 7 mm diameter	e) Bracing	
Board will measure diameter with the help of	W.S.Rod of 16 mm diameter ± 5%	± 5%		
ĊΦ		M S Rod of 16 mm diameter	d) Vertical Member	
Board will measure height of each section	10 Feet	10 Feet	c) Height of One section	
b.O.O will pnysically check.	(Sections	
	06	08	b) Number of	
B.O.O will physically check.	OO Feet		_	
	SO Toot	80 Feet	a) Total Height of	
Illai procedure	FOR 60 Feet	FOR 80 Feet		NO.
Triol Support	DESIRED SPECIFICATION	DESIRED SECIFICATION	PARAMETER	SL.
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	d) Earthing Rod	c) Aileilia biacket	b) Lightening conductor	a) Lightening arrester	Lightening Arrester & Antenna Bracket.	Base plate, Nails (base spike), Pegs and of specification described above	Nuts & Bolts	Bulldog Clamp	Thimbles	D Shackles	Straining Screws	Guy anchor	Guy ropes stainless steel
	6 ft long G.I of 15 mm with copper coating of 2mm.	antenna (As per user organization requirement)	Copper wire of 8 SWG 120 Feet long	copper	tenna Bracket:-	Base plate, Nails (base spike), Pegs, guy tensioner & clamps etc should be made of hot dip and of specification described above.	As on reqd. Basis.	48 No of 1/4" size	24 Nos.	12 No. of size 3/8" ± 5%	12 No. of size 5/8" x 12" ± 5%	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 No. D Shackles.	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.
	6 ft long G.I of 15 mm with copper coating of 2mm.	Antenna bracket for installation of antenna (As per user organization requirement)	Copper wire of 8 SWG 100 Feet long	4 Ft long made of copper		c should be made of hot dip Galvanized	As on regd. Basis.	36 No of 1/4" size	18 Nos.	9 No. of size 3/8" ± 5%	9 No. of size 5/8" x 12" ± 5%	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 No. D Shackles.	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.
the help of scale.		Board will check it physically.	Board will check it practically and measure the size.	Board will check it practically and measure the size.		Board will check all physically.		Board will check it practically.	Board will check it practically	of standard measuring tools.	Board will check Straining Screws/ D shackles Physically and will measure size with the help	Board will check Guy anchor Physically and will measure size with the help of standard measuring tools.	Board will checked Physically and will measure size with the help of standard measuring tools.

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(M S Yadaw AC (Tech), CRPF)	Safety Belt of ISI/BIS Mark	Hammer Sledge of 5 Kg weight with wooden Handle.	Tirtor Pulling & Litting Machine of minimum one ton capacity	Deric assembly: Deric assembly should is of 76 mm ±5%, wall thickness to be of 10ft + 10 Ft + 5 ft duly flanged	ICATION FOR INSTALLATION KIT FO
(Gurbachan Singh, SSO (E), BPR&D) (S		den Handle.	m one ton capacity	Deric assembly: Deric assembly should be made of hot dip galvanized MS Pipe, whose outer diameter is of 76 mm ±5%, wall thickness to be of 4mm and having total length of 25 feet split in to 3 sections of measure size with the help of scale 10ft + 10 Ft + 5 ft duly flanged	SPECIFFICATION FOR INSTALLATION KIT FOR ERRECTION OF 60/80 FT LATTICED AERIAL MAST
(Sunil Kumar, DC (Comn), ITBP)	Board will check it physically.	Board will check it physically as well as measure weight with the help of weighing	Board will check it physically as well as vendor will provide certificate from any government authorized laboratory about machine canacity	Board will check it practically as well as measure size with the help of scale.	

(Shailendra Kumar, le (&dmn), CRPF)

Approved/ Not Approved

(Pranay Sahay, IPS)
DG, CRPF