QRs of Pneumatic Telescopic Mast

S. N.	Parameters	specification
1	Fully erected height	21 meters ± 0.2 meter
2	Fully retracted height	3.6 meters ± 0.1 Meter
3	Head load	10 Kg maximum
4	Diameter of body section (main mast)	not exceeding 135 mm
5	Guy ropes stainless steel of diameter	4 mm
6	Guy radius	7 meters
7	Guy ropes stainless steel for three peg system	12 No. (3X4)
8	Application	Ground Mounting
9	Type of operation	Pneumatic-Foot pump operated
10	Sway	± 3°
11	Rotation Azimuth	± 180° azimuth plain
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~~
13	Weight of mast	≤75 Kg
14	Guy Anchor	3 Nos of minimum 1100 mm long with arrangement for fitment 4 Nos. guy ropes
15	Base plate	Base plate of minimum 500 mm x 8 mm diameter with Cup & Nails of minimum 600 mm x 16 mm size (as per requirement)
16	**Standard accessories**	
(i)	Hammer (5 lbs with wooden handle)	
(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	
(iii)	Lightening protector complete only for 21 Meter mast (User required to specify length of antenna)	
(iv)	Clamps for mounting head load (As per user requirement)	
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.	

S. N.	Parameters
(ii)	The mast should be erected by using a foot pump.
(iii)	The mast could with stand wind speed of up to 120 Kms/ hour for short duration and 80 Kms / hour for regular operation with the all guys ropes tightened
(iv)	The mast should stay in erected conditions without air pressure for long periods. Each tubes moves on Teflon bearing and high quality air seals.
(v)	Each section should be hard anodized & the body along with locking guide & guide collars is Olive Green Spray painted / powder coated.
(vi)	All mild steel parts should be a hot dip galvanized to with stand harsh environmental conditions
(vii)	The complete mast system should be included all needed accessories for its erection, such as base plate, spikes, foot pump, pegs, hammer, stainless steel guy ropes, guy tensioner, clamps etc.
(viii)	Base plate with cup, nails (base spike), pegs, guy tensioner and clamps etc should be made of hot dip galvanized and of specification described above.
(ix)	Arrangement for fitment of ground plain antennas on the top of the mast (User required to specify the antenna)

WO/RM R.S. Dhaka
Assam Rifles

AC-III Suman Dey
NSG

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ITBP

Padam Singh Meena, AC
SSB

Ravindra Kr Meel,DC
CISF

Himanshu Gaur, 2I/C
BSF

P.R.Jha,DC(Comn)
CRPF

Harjinder Singh,DIG(Eqpt)
CRPF

D.S.Rawat,DIG(Comn)
CRPF

Raju Bhargava, IPS, IGP(Comn &IT)
CRPF

Md. Jawed Akhtar, IPS,
ADG (Work & Comn),CRPF

Approved/Not Approved

2021

Rajeev Rai Bhatnagar, IPS
DG, CRPF

TDs of Pneumatic Telescopic Mast

S. N.	Parameters	specification	Trial Directives
1	Fully erected height	21 meters ± 0.2 meter	Board will check practically.
2	Fully retracted height	3.6 meters ± 0.1 Meter	Board will check practically.
3	Head load	10 Kg maximum	Board will check practically.
4	Diameter of body section (main mast)	not exceeding 135 mm	Board will check practically.
5	Guy ropes stainless steel of diameter	4 mm	Board will check practically.
6	Guy radius	7 meters	Board will check practically.
7	Guy ropes stainless steel for three peg system	12 No. (3X4)	Board will check practically.
8	Application	Ground Mounting	Board will check practically.
9	Type of operation	Pneumatic-Foot pump operated	Board will check practically.
10	Sway	± 3°	Firm will submit OEM certificate.
11	Rotation Azimuth	± 180° azimuth plain	Board will check practically.
12	Environmental specs	MIL-STD 810F or better or JSS-55555 as per table L2G:- For High temperature, Low temperature, Rapid temperature cycling, Mould growth, Corrosion(salt)	Firm will submit certificate of any Govt. Lab or NABL or ILAC accredited laboratory.
13	Weight of mast	≤75 Kg	Board will check practically.
14	Guy Anchor	3 Nos of minimum 1100 mm long with arrangement for fitment 4 Nos. guy ropes	Board will check practically.

S. N	Parameters	specification	Trial Directives
15	Base plate	Base plate of minimum 500 mm x 8 mm diameter with Cup & Nails of minimum 600 mm x 16 mm size (as per requirement)	Board will check practically.
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 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.		Board will check practically.
(iii)	The mast could with stand 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 tubes 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.
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S. N	Parameters	Trial Directives
(vii)	The complete mast system should be included all needed accessories for its erection, such as base plate, spikes, foot pump, pegs, hammer, stainless steel guy ropes, guy tensioner, clamps etc.	Board will check practically.
(viii)	Base plate with cup, nails (base spike), pegs, guy tensioner and clamps etc should be made of hot dip galvanized and of specification described above.	Board will check practically.
(ix)	Arrangement for fitment of ground plain antennas on the top of the mast (User required to specify the antenna)	

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