

**DIRECTOR GENERAL BORDER SECURITY FORCE**  
**PROVISIONING DIRECTORATE (MOD CELL)**

**EXPRESSION OF INTEREST**

Commandant (ord)  
HQ DG BSF, Prov Dte (Ord Sec)  
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Lodhi Road, New Delhi  
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The Sub-group of Technical Experts constituted by MHA vide their letter No. IV-24011/12/2011-Prov-I dated 13 Jun 2012, No. IV-24011/12/2011-Prov-I dated 28 Dec 2012 & UO No. IV-24011/12/2011-Prov-I- 350 dated 27 Jun 2013 held its meeting at BSF Headquarters on **30<sup>th</sup> June 2017** to formulate the Qualitative Requirement of "**Flood Light Mast/Lights**". After detailed deliberations the referred Sub-group has formulated the QRs/TDs which are as under :-

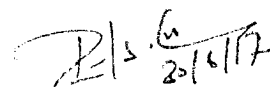
**Draft QRs of Flood Light Mast/Lights**

S N	Parameters/Specifications	
1.	<b>High Mast System</b>	
	i)	Height of Mast 15 Mtrs
	ii)	No. of sections Two
	iii)	Material of construction S 355 grade as per BS-EN10025 or better
	iv)	Base Dia and Top Dia (A/F) Top 150mm Bottom 460mm
	v)	Plate Thickness Top 3 to 4mm Bottom 4mm
	vi)	Cross section of Mast 20 side polygon
	vii)	Standard for of galvanization As per BS EN ISO 1461
	viii)	Size of opening and door at base 1200X250mm
	ix)	Diameter of base plate 670 mm
	x)	Thickness of base plate 25 mm
	xi)	Lightning protection final GI Single spike of length 1200mm
	xii)	Max. Wind speed 47 m/s or As per IS standard
	xiii)	Number of foundation bolts 8 Nos
	xiv)	PCD of foundation bolts 590 mm
	xv)	Type/diameter/length of foundation bolts TS 600/30 mm dia/850 mm long
2.	<b>LUMINARIES CARRIAGE</b>	
	i)	Material of construction As per designed
	ii)	Diameter of carriage ring (mm) 710 mm(ID)
	iii)	Construction As per requirement
	iv)	Load Carrying capacity 08 Luminaries
3.	<b>TRAILING CABLE</b>	
	i)	Conductor Copper, 5 Core, 2.5 sq mm
	ii)	Insulation EPR insulated PCP sheathed
	iii)	No. of Circuits per mast One

4.	<b>WINCH/POWER TOOL</b>		
	i)	Type/SWL of winch	Double drum, SWL 750 Kg
	ii)	Method of operation	Integral Motor
	iii)	Motor capacity	1.5 to 2 HP
	iv)	No of speeds	6 Pole, Single Speed
	v)	Torque Limitor	With mechanical tripping facility
5.	<b>STAINLESS STEEL WIRE ROPE</b>		
	i)	Grade/construction	AISI 316, 7/19 construction
	ii)	Number of ropes	2/3 Rope system
	iii)	Diameter (mm)	5 to 6 mm
	iv)	Breaking load capacity	2350 kg X 2
6.	<b>CANOPY</b>		
	i)	Material	FRP
	ii)	Thickness	5 mm
	iii)	Diameter	4 mtr
7.	<b>SPECIFICATION OF LED</b>		
	i)	System power (W)	350
	ii)	LED Luminor Efficacy	≥ 100 (Lumen/W)
	iii)	System power	80 to 350 W
	iv)	Input Voltage	110 to 270 Volt/50 Hz
	v)	LED Driver efficiency	≥ 90%
	vi)	IP Rating	IP 66
	vii)	IK Rating	IK 08
	viii)	Power Factor	≥ 0.95

**Note :- All the firms are requested to comment upon the above mentioned QRs and furnish brochure/catalogue of their products from the OEMs.**

The Sub-group has decided to upload the QRs on MHA and BSF website for 15 days to invite the views/comments/suggestion of prospective bidders to make the QRs more broad based.



**( Rishipal Singh )**  
Second-In-Command (MOD)