

**CENTRAL INDUSTRIAL SECURITY FORCE
(Ministry Of Home Affairs)**

EXPRESSION OF INTEREST

AIG/Tech
 Technical Branch
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The Sub-group of Technical Experts constituted as per direction issued vide MHA UO No. IV-24011/12/2011-Prov-I dated 13.06.2012, UO dated 28.12.2012 and UO dated 27.06.2013 and UO No 11012/02/2009-Fin-I/Prov-I-17 dated 02.01.2018 held its meeting at CISF Hqrs on 04.04.2018 to formulate the Qualitative Requirement of **FLOOD LIGHT MAST/LIGHTS**. After detailed deliberations the referred Sub-group has formulated the QRs which are as under:

DRAFT QRS/TECHNICAL SPECIFICATION OF FLOOD LIGHT MAST/LIGHTS

SN	Technical Features	Specification
01	High Mast System	
	Height of Mast	15 Mtrs.
	No. of sections	Two
	Material of construction	S 355 grade as per BS-EN10025 or better
	Base Dia and Top Dia (A/F)	Top 150mm Bottom 460mm
	Plate Thickness	Top 3 to 4mm Bottom 4mm
	Cross section of Mast	20 side polygon
	Standard for galvanization	As per BS EN ISO 1461
	Size of opening and door at base	1200X250mm
	Diameter of base plate	670 mm
	Thickness of base plate	25 mm
	Lightning protection final	GI Single spike of length 1200mm
	Max. wind speed	47 m/s or As per IS standard
	Number of foundation bolts	8 Nos
PCD of foundation bolts	590 mm	
Type/diameter/length of foundation bolts	TS 600/ 30 mm dia/ 850 mm long	
02	LUMINARIES CARRIAGE	
	Material of construction	As per designed
	Diameter of carriage ring (mm)	710 mm(ID)
	Construction	As per requirement
	Load Carrying capacity	08 Luminaries
03	TRAILING CABLE	
	Conductor	Copper, 5 Core, 4 sq mm
	Insulation	EPR insulated PCP sheathed
	No. of Circuits per mast	Three & above
04	WINCH/POWER TOOL	
	Type/SWL of winch	Double drum, SWL 750 kg
	Method of operation	Integral Motor

	Motor capacity	1.5 to 2 HP
	No of speeds	6 Pole, Single Speed
	Torque Limiter	With mechanical tripping facility
05	STAINLESS STEEL WIRE ROPE	
	Grade/construction	AISI 316, 7/19 construction
	Number of ropes	2/3 Rope system
	Diameter (mm)	5 to 6 mm
	Breaking load capacity	2350 kg X 2
06	CANOPY	
	Material	FRP
	Thickness	5 mm
	Diameter	4 mtr.
07	SPECIFICATION OF LED	
	System power (W)	350
	LED Luminor Efficacy	>= 100(Lumen/W)
	System power	320 to 360 W
	Input Voltage	110 to 270 Volt/50Hz
	LED Driver efficiency	>=90%
	IP Rating	IP 66
	IK Rating	IK 08
	Power Factor	>=0.95