

No. P-63013/26 /2018/Mod-I/BSF 770-72
Government of India Ministry of Home Affairs
Directorate General Border Security Force
(Prov Dte: Mod Cell)
(Fax: 011-24367683)

Block No.10, CGO Complex,
Lodhi Road, New Delhi-03

Dated, the 9th April 2019

To,

The AIG (Tech)

HQr, CISF


Block No. 13, CGO Complex,
Lodhi Road, New Delhi-110003

Sub: **Forwarding of QRs and Trial Directives of Motorized Sliding Gate and Mobile Raised Observation Post**

Ref : HQ DG BSF, CISF letter No. W-42026 (1)/5/Tech/(QRs:NB&SB)/
(37760)/18-1043 dated 13th March 2019.

2. Find enclosed herewith QRs and Trial Directives of **“Motorized Sliding Gate and Mobile Raised observation Post”** as per appendix ‘A’ and ‘B’ duly finalized by Sub group of technical experts and approved by DG BSF for your information and necessary action please.

Encl : As above





2/4/19
Dy. Inspector General (Prov)
FHQ BSF, New Delhi






Copy to :-

1. SO (IT),
North Block MHA,
New Delhi : You are requested to host the above QRs and TDs on MHA website please.
2. IT Cell
FHQ BSF,
New Delhi : You are requested to host the above QRs and TDs on BSF website please.

**QRS/TECHNICAL SPECIFICATION OF MOBILE RAISED OBSERVATION
POST(MROP)**

SL No	TECHNICAL SPECIFICATION
01	The Mobile raised observation post proposed shall have two portions i.e. the Cabin and base structure. Cabin shall be made of 70 mm thick GI sheet sandwich panels with allowance of entry gate & windows at required places/locations.
02	The cabin shall be mounted/integrated/fixed upon the base structure and the total unit shall be held to enable the unit move on plain concrete surface or the likewise surface.
03	The Mobile raised observation post shall have one GI-sandwich panel made (3''~2.8'' thick) watch cabin of size 4'X4'X8' (H); having slope roofing (like hut) that would be mounted on MS angle framed 'base structure'.
04	The Mobile raised observation post cabin shall have one door, three windows (2'X2') with shutter glass panels on three walls at a height of 4 ft from the base (for air circulation and clear line of sight). There should be sufficient port for firing on each shutter windows. There should be provision of MS railing on four sides of the cabin for preventing falling and other obvious security-cum-ease reasons.
05	Inside of the Mobile raised observation post shall be provided one 12'' wall fixed fan of any standard make, two LED points for light, one point (Switch + socket) each for 15 AMP and 5 AMP.
06	At exterior of the Mobile raised observation post shall provide four LED points for light on all its four sides. All the LED light should be able to illuminate 1380 Sq Ft area and compatible solar panel, battery/Inverter be provided for illumination of the aforesaid mentioned area. The details are as under:- <ol style="list-style-type: none"> i. Four 18 to 20 watt LED luminous which will cover the each side 345 Per sq ft and total area of 1380 sq ft. ii. Battery 500 AH. iii. Solar panels of 250 watts 2 Nos. iv. 850VA/12V inverter. Place for installation of the inverter should be designed in the beneath of cabin for safety purpose. v. All lights will be auto timer switch off/on.
07	All the control panel shall be provided inside of the Mobile raised observation post cabin.
08	All the electrical arrangements mentioned above will be fixed to one main pair of wire which shall be left outside of the Mobile raised observation post cabin that can be attached to the mains to make it operational.
09	The base structure shall be made of MS angle as per the sketch work mentioning size and other required specifications (Drawing attached).
10	The cement board of 18 mm thickness shall be fixed upon the base structure to form the landing platform.
11	The landing platform shall be a height of 8' from the ground level including the height of base wheels of 8''.

12	<p>Design of Wheels -</p> <p>a) The MROP should be portable for which the wheels have to be attached it. The wheels have to be compatible and design to ensure safety i.e. to make it stable with the break provision/ OR any attachment in all legs of the MROP to avoid any incidental happening/injury to the persons.</p> <p>b) Wheels should be designed strongly, compatible with MROP, and smoothly movable to carry MROP from one place to another place.</p> <p>c) 4 caster set made of PVC with an encasing made of steel (each caster of 8" dia) fixed to cabinet unit and the ladder system to sustain a combined load of base and cabin.</p> <p>d) 4 stopper rods compatible to the wheels attached as an additional support</p>
13	<p>Specification of Ladder : Ladder should be provided in detachable mode along with wheel provision, which can be fixed and removed with the mobile observation post as per the requirement. The detailed specifications are as under</p> <p>a) Height of Ladder - 8 Feet or compatible from ground to the upper landing platform of the guard cabin.</p> <p>b) Steps of the Ladder Should be made of MS angle having dimension of 2 Ft wide and 3mm thickness. All the steps should be placed in the ladder with equal distance from each other with maximum span of 1Ft.</p> <p>c) All the steps should be supported with MS angle made compatible railing running to its both the sides from zero level till its top to avoid injury to the persons.</p> <p>d) Proper attachments such as Hooks are likewise should be made available at top of ladder for manual connecting and removal of it with MROPs landing base.</p>



(Subhash)
SI/RM/BSF



(Jeet Singh)
Insp/ITBP



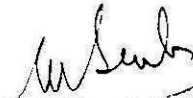
(Jeet Singh)
NB/Sub Comm./AR



(Ravindra Singh Chauhan)
Asstt. Commandant/NSG



(Pranod Kumar)
Asstt. Commandant/SSB



(Krishna Kant Sinha)
SSA/BPR&D



(Abhiram Pankaj)
2I/C/CRPF



(Sanjay Prakash)
DIG/GBS/CISF



ADG/HQ
CISF
(Chairman)

Approved/Not Approved



DG/BSF

TRIAL DIRECTIVES OF MOBILE RAISED OBSERVATION POST(MROP)

Sl No	Technical Specification	Trial Directives
01	The Mobile raised observation post proposed shall have two portions i.e. the Cabin and base structure. Cabin shall be made of 70 mm thick GI sheet sandwich panels with allowance of entry gate & windows at required places/locations.	To be physically checked by BOO.
02	The cabin shall be mounted/integrated/fixed upon the base structure and the total unit shall be held to enable the unit move on plain concrete surface or the likewise surface.	To be physically checked by BOO.
03	The Mobile raised observation post shall have one GI-sandwich panel made (3"~2.8" thick) watch cabin of size 4'X4'X8' (H); having slope roofing (like hut) that would be mounted on MS angle framed 'base structure'.	To be physically checked by BOO.
04	The Mobile raised observation post cabin shall have one door, three windows (2'X2') with shutter glass panels on three walls at a height of 4 ft from the base (for air circulation and clear line of sight). There should be sufficient port for firing on each shutter windows. There should be provision of MS railing on four sides of the cabin for preventing falling and other obvious security-cum-ease reasons.	To be physically checked by BOO.
05	Inside of the Mobile raised observation post shall be provided one 12" wall fixed fan of any standard make, two LED points for light, one point (Switch+ Socket) each for 15 AMP and 5 AMP.	To be physically checked by BOO.
06	At exterior of the Mobile raised observation post shall provide four LED points for light on all its four sides. All the LED light should be able to illuminate 1380 Sq Ft area and compatible solar panel, battery/Inverter be provided for illumination of the aforesaid mentioned area. The details are as under:- i) Four 18 to 20 watt LED luminous which will cover the each side 345 Per sq ft and total area of 1380 sq ft. ii) Battery 500 AH. iii) Solar panels of 250 watts 2 Nos. iv) 850VA/12V inverter. Place for installation of the inverter should be designed in the beneath of cabin for safety purpose. v) All lights will be auto timer switch off/on.	To be physically checked by BOO.
07	All the control panel shall be provided inside of the Mobile raised observation post cabin.	To be physically checked by BOO.
08	All the electrical arrangements mentioned above will be fixed to one main pair of wire which shall be left outside of the Mobile raised observation post cabin that can be attached to the mains to make it operational.	To be physically checked by BOO.
09	The base structure shall be made of MS angle as per the sketch work mentioning size and other required specifications (Drawing attached).	To be physically checked by BOO.
10	The cement board of 18 mm thickness shall be fixed upon the base structure to form the landing platform.	To be physically checked by BOO.
11	The landing platform shall be a height of 8' from the ground level including the height of base wheels of 8".	To be physically checked by BOO.
12	Design of Wheels - a) The MROP should be portable for which the wheels have to be attached it. The wheels have to be compatible and design to ensure safety i.e. to make it stable with the break provision/	To be physically checked by BOO.

	<p>OR any attachment in all legs of the MROP to avoid any incidental happening/injury to the persons.</p> <p>b) Wheels should be designed strongly, compatible with MROP, and smoothly movable to carry MROP from one place to another place.</p> <p>c) 4 caster set made of PVC with an encasing made of steel (each caster of 8" dia) fixed to cabinet unit and the ladder system to sustain a combined load of base and cabin.</p> <p>d) 4 stopper rods compatible to the wheels attached as an additional support</p>	
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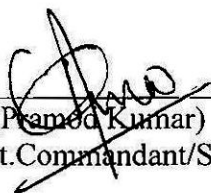
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