

**GOVERNMENT OF INDIA
(Ministry of Home Affairs)
COMMUNICATION & IT DIRECTORATE
CENTRAL RESERVE POLICE FORCE
EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066
(Email:- comncell@crpf.gov.in Tele/Fax:011-26109038)**

No. B.V-7/2022-23-C (MBC)

Dated, the February'2024


To

1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
2. Director, DCPW

Subject: Regarding QRs/TDs of "Mains Battery Charger".

I am directed to refer on the subject mentioned above and to say that the QRs/TDs of "**Mains Battery Charger**" which has been recommended by CAPFs sub-group and experts from DCPW has been approved by the DG CRPF.

Encl:-As above


{Amit Taneja} 28/2/24

**DIG (Equipment)
Communication & IT Branch
Directorate General C R P F**


No. B.V-7/2022-23-C (MBC)

Dated, the February'2024

Copy to:-

1. Mrs. Sugandhi, Technical Director, North block, MHA with request to upload the QRs/TDs of "**Mains Battery Charger**" on MHA website (e-mail ID: mpsugandhi@nic.in).

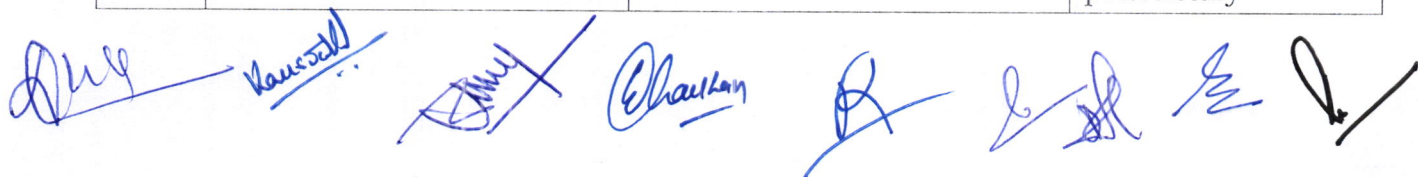
Encl:-As above


28/2/24

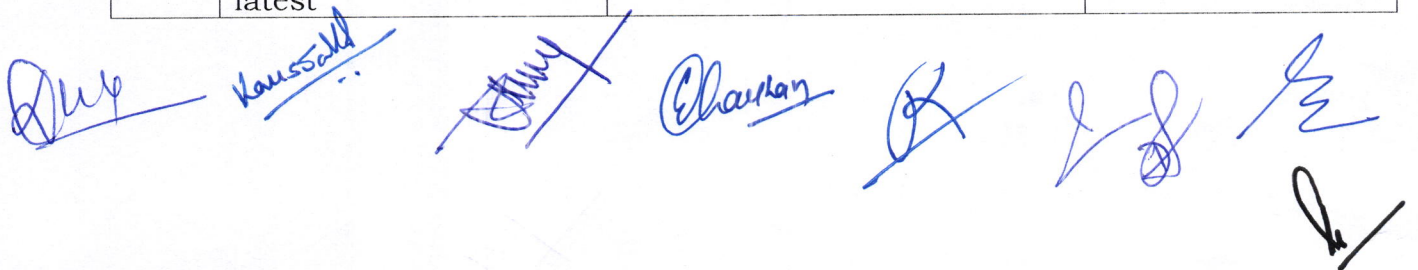
{ Amit Taneja }
**DIG (Equipment)
Communication & IT Branch
Directorate General C R P F**

QRs/TDs of Mains Battery Charger

S.N.	PARAMETERS	SPECIFICATIONS	TRIAL DIRECTIVES
1	Charger technology	Transformer Based/SMPS (as per user requirement)	BOO will check practically
2	Compatibility with battery type (User Selectable)	VRLA-SMF/ Li- ion/Li-Po/Ni-mh/Ni-cd (As per user requirement)	BOO will check practically
3	Number of Independent charging stations (In Numbers)	1,3,5 or as per user requirement	BOO will check practically
4	Input Voltage Range AC (Single phase, Sine wave, 50Hz)	170- 260V (ISI marked power cord to be provided)	BOO will check practically
5	AC surge protection	Yes (Input side-MCCB & ELCB with On/Off and fuse. Output side-MCCB and On/Off switch)	BOO will check practically
6	Soft start and soft stop feature without inrush current	Yes	BOO will check practically
7	Facility for charging deep discharged battery	Yes	BOO will check practically
8	Digital display for output voltage and current	25mm x 15mm or better	BOO will check practically
9	LED Indications for Charging Status, Charged condition status and reverse polarity	Yes	BOO will check practically
10	Cabinet Material	CRCA sheet /Aluminum metal (as per user requirement)	Firm will submit certificate of Govt. Lab. or NABL accredited laboratory.
11	Cabinet Thickness (mm)	Minimum 1.2 mm	BOO will check practically
12	Length of Charging Cable for each station. (meter)	1.5 mtr or more (as per user requirement)	BOO will check practically
13	Size of Charging Cable for each station. (sq. mm)	Min. 6 sq.mm as per IS:694 ISI Marked multi strands flexible copper cable	BOO will check practically
14	Battery/battery bank Voltage (Volts)	12 Volts per station	BOO will check practically



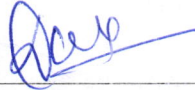
S.N.	PARAMETERS	SPECIFICATIONS	TRIAL DIRECTIVES
15	Capacity of the battery to be charged (User Selectable) (AH)	Option-I:7 to 40Ah Option-II:- 35 to 120Ah (As per user requirement)	BOO will check practically
16	Maximum Charger output current (Amp)	12 Ampere per station	BOO will check practically
17	Charging Cut-off Voltage per 12V battery (Volts)	14.5 volt +/-0.2 volt	BOO will check practically
18	Efficiency (%)	≥ 75%	Firm will submit OEM certificate
19	Reverse Polarity Protection	Yes	BOO will check practically
20	Short Circuit Protection	Yes	BOO will check practically
21	Over Current Protection	Yes	BOO will check practically
22	Over voltage cutoff protection	Over voltage protection at 270 volt at input and automatic recovery at 260 volt when the voltage is reduced from 270 volt	BOO will check practically
23	Operating temperature	-20 °C to + 55 °C	Firm will submit certificate of Govt. Lab. or NABL accredited laboratory
24	Storage temperature	-30 °C to 60 °C	Firm will submit certificate of Govt. Lab. or NABL accredited laboratory
25	Availability of Type Test Report from Central Govt. /NABL Accredited lab to prove conformity to the Specification IS:8448 latest	Yes	Firm will submit certificate of Govt. Lab. or NABL accredited laboratory.



S.N.	PARAMETERS	SPECIFICATIONS	TRIAL DIRECTIVES
26	Warranty	2 years	Firm will submit OEM certificate
27	Weight	(i) SMPS: upto 10kgs (ii) Transformer: upto 12kg(single station)	BOO will check practically




(Sub/GD. D.P.Mishra)
Assam Rifles



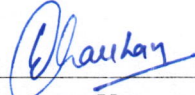
(Insp/Com.Dinesh Kumar Rana)
SSB



(Insp.Ranveer Singh)
CISF



(K.Saha, Asstt.Director)
DCPW



(Gautam Kumar, DC)
ITBP



(V.C.S.Krishna,DC)
BSF



(S.N.Tiwari, DC)
NSG



(Sunil Kumar Singh)
DC(Comn),CRPF



(P.C.Jha)
DIG(Comn), CRPF

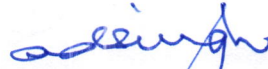


(Syed Mohammad Hasnain)
IG (Comn& IT), CRPF



(Vitul Kumar, IPS)
ADG (OPS), CRPF

Approved / Not Approved



(Sh.Anish Dayal Singh, IPS)
DG, CRPF