DIRECTORATE GENERAL, CRPF
EAST BLOCK-7, SECTOR-1, R.K PURAM, NEW DELHI-66
e-mail : digeqpt@crpf.gov.in Tele No. 011-26109038

No. B.V-7/2026-27-C-(B/M Switch)-QR CELL Dated, the 26 Oct'2026

To

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

Subject: QRs/TDs OF "BATTERY OF UAV SWITCH V1" REGARDING.

I am directed to refer to the subject mentioned above and to say that the QRs/TDs of "**Battery of UAV Switch V1**" have been approved by the DG CRPF after due deliberations and as per recommendations of Sub-Group of Technical Experts from CAPFs and experts from DCPW & BPR&D.

This is for favour of information and further needful please.

Encl:-As above

26/10/26

(Ajay Kumar Singh)
DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

No. B.V-7/2026-27-C-(B/M Switch)-QR CELL Dated, the 26 Oct'2026

Copy to:-

1. Mr. Deepak Kumar, Technical Director, 34016, 4th Floor, Kartavya Bhawan 3, Janpath Road, MHA, New Delhi-110001 (e-mail ID: deepakg@gov.in) with request to upload the QRs/TDs of "**Battery of UAV Switch V1**" on MHA website please.

Encl:-As above

26/10/26

(Ajay Kumar Singh)
DIG (Equipment)
Communication & IT Branch
Directorate General C R P F

QRs/TDs of Battery of UAV Switch V1

S.N.	Specifications	Parameters	Trial Directives
01	Type of Battery	Lithium Based	Firm will submit OEM Certificate
02	Smart Battery	a) Inbuilt intelligent battery management system with the ability to do active logging of battery health for at least 2 years of data, monitoring and maintenance of battery health.	Firm will submit OEM certificate
		b) Logged data during in flight mode includes: - Battery Voltage - Cell Voltage - Charge/Discharge current - Date/Time of logging - Temperature of Battery	BOO will check practically
		c) Self-discharge of battery to 80% voltage if left fully charged and unused for few days to maximize battery life	Firm will submit OEM certificate
03	Nominal Capacity	Minimum 18,000 mAH	BOO will check practically and Firm will submit OEM certificate
04	Nominal Voltage	28.8V	BOO will check practically and Firm will submit OEM certificate
05	Container/Cover Material	Composite or plastic enclosure to provide handling and ingress protection (IP 53) in standalone condition	Firm will submit OEM certificate
06	Charging Current	Minimum 10A	BOO will check practically and Firm will submit OEM certificate
07	Maximum Discharge Current	Minimum 59A	BOO will check practically and Firm will submit OEM certificate
08	Maximum Power Rating	Minimum 518 W	Firm will submit OEM certificate
09	Weight	< 3100 gms	BOO will check practically
10	Battery Endurance	Minimum 120 minutes with UAV Switch V1 up to 1000M AMSL	BOO will check practically
11	Charging cycle/Prescribed life	Minimum 250 charging cycles or 3 years whichever is earlier while retaining minimum 80% of capacity	Firm will submit OEM certificate
12	Dimension	757 X 260 X 309 mm	BOO will check practically and Firm will submit OEM certificate
13	Operating & Storage Temperature	-10°C to 55°C	Firm will submit certificate of Govt Lab or NABL accredited lab.
14	Ingress Protection	IP 53	Firm will submit certificate of Govt Lab or NABL accredited lab.
15	Compatibility	The battery should be compatible with the	BOO will check practically

	with Switch V1 Universal Charger	universal battery chargers supplied with UAV Switch V1 compatible connectors	
16	Physical, Electrical, chemical & software parameters of battery shall be fully compatible with UAV switch V1 and Battery shall seamlessly interface with existing UAV system		Firm will submit OEM certificate & BOO will check Battery interface practically
17	Battery shall not adversely affect flight characteristics, navigation performance, endurance, payload operation, telemetry functions or safety features of the UAV		Firm will submit OEM certificate & BOO will check practically
18	Validity of flight logs for compatibility of battery and Diagnostic log analysis shall be carried out during technical evaluation for characteristics and operational reliability		BOO will check practically

W/O Balendra Singh
Assam Rifles

AC-II Lalit Kumar
NSG

Sanjay Mathur
AC, SSB

Naresh Kumar
AC, CISF

12/4/26
Tilak Raj
AC (ITBP)

Dinesh S.A
AC(QR/UAV), CRPF

Dhananjay Kumar Pandey
AC (Comn), CRPF

Binay Kumar
AD, BPR&D

Sunil Kumar
AD, DCPW

Praveen Singh Rawat
DC, BSF

(Ajay Kumar Singh)
DIG (Eqpt), CRPF

Rajesh Kumar
IG (Comn & IT), CRPF

(Zaki Ahmad, IPS)
SDG (ADM), CRPF

Approved/ Not Approved

(Gyanendra Pratap Singh, IPS)
DG, CRPF