



**DIRECTORATE GENERAL, CRPF**  
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No. B.V-7-C/2026-27-C (B/M Switch)-QR CELL

Dated, the 5 June'2026

**Subject: - REQUEST FOR COMMENTS OF STAKEHOLDERS /OEM/FIRMS ON DRAFT QRs & TDs OF "BATTERY OF MINI SWITCH UAV" REGARDING.**

The Draft QRs/TDs of "**Battery of Mini Switch UAV**" are attached as **Appendix 'A'**. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their product against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details: -

- Whether you are OEM/Vendor?
- If vendor, details of OEM required.
- Authorization certificate from OEM.

2. The required information/details may please be forwarded at the following addresses by 30 June'2026.

Communication Directorate, CRPF  
East Block-7, Sec-1, R.K. Puram, New Delhi-110066  
Email: [comncell@crpf.gov.in](mailto:comncell@crpf.gov.in)

3. An early response is requested.

(Megh Raj)  
**DIG (Equipment)**  
**Communication & IT Branch**  
**Directorate General, CRPF**

Draft QRs /TDs of Switch V1 Battery

SNo.	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 - Acceleration/Shock - Temperature of Battery	BOO will check practically
		c) Self-discharge of battery to 80% voltage if left fully charged and unused for 15 days to maximize battery life	Firm will submit OEM certificate
		d) Battery life cycle should not be programmed in BMS (Battery Management System)	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 certificate of Govt Lab or NABL accredited lab.
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 Switch V1 up to 1000M AMSL	BOO will check practically
11	Charging cycle/Prescribed life	Minimum 500 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 firms 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 with Switch V1 Universal Charger	The battery should be compatible with the universal battery chargers supplied with Switch V1 compatible connectors	BOO will check practically
16	Physical, Electrical, chemical & software parameters of battery shall be fully compatible with Mini switch V1 - UAV 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