



DIRECTORATE GENERAL, CRPF
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No. B.V-7/2025-26-C-(SMF)-QR CELL

Dated, the 6 Jan'2026

To

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

Subject: QRs/TDs OF “SEALED MAINTENANCE FREE VALVE REGULATED LEAD ACID (SMF VRLA) BATTERY” REGARDING.

I am directed to refer to the subject mentioned above and to say that the QRs/TDs of “**SEALED MAINTENANCE FREE VALVE REGULATED LEAD ACID (SMF VRLA) BATTERY**” have been approved by the DG CRPF after due deliberations as per recommendations of CAPFs sub-group of technical experts and experts from DCPW.

2. QRs/TDs of “**SEALED MAINTENANCE FREE VALVE REGULATED LEAD ACID BATTERY**” forwarded earlier vide letter No. B.V-7/2013-14-C(QRs)-(15)389 dated 17/02/2014 stand rescinded

Encl:-As above

(Rajendra Singh Sekhawat)
DIG (Eqpt/Comn)

Communication & IT Branch
Directorate General C R P F

No. B.V-7/2025-26-C-(SMF)-QR CELL

Dated, the 6 Jan'2026

Copy to:-

1. Mr. Deepak Kumar, Technical Director, North block, MHA (e-mail ID: deepakg@gov.in) with request to upload the QRs/TDs of “Sealed Maintenance Free Valve Regualted Lead Acid (SMF VRLA) Battery” on MHA website and QRs/TDs of “Sealed Maintenance Free Valve Regulated Lead Acid Battery” forwarded earlier vide letter B.V-7/2013-14-C(QRs)-(15) 389 dated 17/02/2014 stand rescinded please.

Encl:-As above

(Rajendra Singh Sekhawat)
DIG (Eqpt/Comn)

Communication & IT Branch
Directorate General C R P F

QRs/TDs OF SMF VRLA BATTERY

SN	Specifications	Parameters	Trial Directives
1	Type of chemistry	SMF VRLA (Sealed Maintenance Free - Valve Regulated Lead Acid)	The board will check it physically. The supplier shall furnish a complete & satisfactory type test certificate from NABL/STQC accredited/Govt laboratory as per JISC 8702/IS 16220 or latest Indian standard of these batteries.
2	Nominal Capacity	7Ah and above @ C/20 rating (as per user requirement)	The board will carry out the rated capacity test and high discharge characteristic with the help of standard testing instruments as per JISC 8702/IS 16220 or latest Indian standard for these batteries
3	Nominal Voltages	12V	The board will ensure that voltage of battery is as per specification by measuring with the help of standard measuring instrument
4	Container/Cover material	The battery container and casing should make of Polycarbonate (PC) or Polypropylene Copolymer (PPCP) or Acrylonitrile butadiene Styrene (ABS) or PC+ABS blend, or newly developed better material	The board will check it physically. The firm shall provide a certificate about material used in battery housing.
5	Weight	As per JISC 8702/IS 16220 latest or similar to weight of branded manufacturer battery of rated capacity	The board will measure weight of battery with the help of weighting machine and ensure that it is as per JISC 8702/IS 16220 standards or similar of branded manufacturer battery of rated capacity
6	Dimension and marking	As per JISC 8702/IS 16220 or latest similar to size of branded manufacturer battery of rated capacity	The board will check the dimension and marking and ensure that it is as per JISC 8702/IS 16220 standards or similar of branded manufacturer battery of rated capacity
7	Terminal type	As per JISC 8702/IS 16220 or any latest Indian standard.	The board will check physically that terminal of battery is as JISC 8702/IS 16220 or latest Indian standards.

[Handwritten signatures and initials are present at the bottom of the page, including 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z' and other initials.]

SN	Specifications	Parameters	Trial Directives
8	<p>The quoted battery should full fill the following specifications as per the JISC 8702/IS 16220 or latest Indian equivalent standard.</p> <ol style="list-style-type: none"> I. General Requirements II. Capacity Tests III. High rate discharge test IV. Endurance in cycle V. Charge retention VI. Endurance in trickle application VII. Gas recombination VIII. Resistance to vibration IX. Resistance to shocks X. Max. Permissible current 		<p>Firm will produce Test report of the all parameter shown under para-8(I to X) as per JISC 8702/IS 16220 standards for these batteries from NABL/STQC accredited /Govt laboratory. Board will check these certificates and will ensure that test report is complying above standards</p>
9	<p>At least the following items shall be adequately designated on the battery: -</p> <ol style="list-style-type: none"> I. Type designation II. Nominal voltage III. Rated, capacity IV. Month & Year of Manufacturer. V. Supplier name and /or trade mark VI. The battery shall carry a marking of polarity of both terminals by plus symbol (+) and minus symbol(-) on the lid adjacent to the terminals <p>Additional data such as recommended charging voltage, charging current, capacity at other discharge rates, battery mass shall be supplied with the battery in a suitable way.</p>		<p>The board will check it physically that label of battery is as per specifications.</p>

WO/RM Sandeep Kumar
Assam Rifles

Satish Kumar Mahla
AC (Comm), SSB

Gyanendra Kumar Giri
AC(QR), CRPF

Vimal Singh
DC (IT), CRPF

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AC-I Anil Kumar Yadav
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DIG (Comm/Eqpt), CRPF

Zaki Ahmad, IPS
SDG (ADM), CRPF

Approved/ Not Approved

Gyanendra Pratap Singh, IPS
DG, CRPF