REQUEST FOR COMMENTS OF STAKEHOLDERS/OEM/FIRMS ON QRS (QUALITY REQUIREMENT) & TDS (TRIAL DIRECTIVES) OF SMF VRLA (SEALED MAINTENANCE FREE- VALVE REGULATED LEAD ACID)

1. The proposed QRs/TDs of SMF VRLA (Sealed Maintenance Free- Valve Regulated lead Acid) is attached as **Appendix 'A & B'**. The OEMs/Vendors are requested to forward information of the product which they can offer and also forward correct specifications of their system against each parameter. Complied or not complied remarks will not be accepted.

2. The required information/details may please be forwarded at the following addresses by **20th Jan 2019**.

Directorate General CRPF
East Block-7, Sec-1, R.K. Puram, New Delhi-110066
Email: comncell@crpf.gov.in

3. An early response is requested.

QRs of SMF Battery

Sl. No	Parameters	Specifications
1	Type of Battery Chemistry	SMF VRLA (Sealed Maintenance Free-Valve Regulated lead Acid)
2	Nominal Capacity	7-200AH @ C/20 rating (Capacity of battery will be decided by user during procurement as per their requirement.
3	Nominal Voltage	12V
4	Container/ Cover Material	The battery container and casing should make of PC/ PC+ABS/ABS blend or newly developed better material.
5	Weight	As per JISC 8702 or IEC 60896-21/22 latest or similar to weight of branded manufacturer battery of rated capacity or **As per relevant IS specifications.**
6	Dimension and Marking	As per JISC 8702 or IEC 60896-21/22 latest or similar to size of branded manufacturer battery of rated capacity **or As per relevant IS specifications.**
7	Terminal type	As per JISC or IEC 60896-21/22 or **As per relevant IS specifications or** any standard.
8	The quoted battery should fulfill the following specifications as per the JISC (**Japanese Industrial Standards Committee**) 8702/1998 or IEC 60896-21/22 latest or any equivalents standard. 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	
9	**At least the following items shall be adequately designated on the battery:-** 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. vii) Additional data such as recommended charging voltage, charging current, capacity at other discharge rates, battery mass and other instructions shall be supplied with the battery.	
10	**Compulsory registration of BIS for safety as per IS 16046 as applicable**	

Trial Directives of SMF Battery

S. N	Parameters	Specifications	Trial Directives
1	Type of Battery Chemistry	SMF VRLA (Sealed Maintenance Free- Valve Regulated lead Acid)	The board will check it physically and supplier shall furnish complete & satisfactory type test certificate from Govt. of India laboratory as per JISC 8702 or IEC latest standard or **As per relevant IS specifications** for these batteries
2	Nominal Capacity	7-200AH @ C/20 rating (Capacity of battery will be decided by user during procurement as per their 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/IEC latest standard for these battery.
3	Nominal Voltage	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 PC/ PC+ABS/ABS blend or newly developed better material.	The board will check it physically as well as firm will provide certificate about material used in battery housing.
5	Weight	As per JISC 8702 or IEC 60896-21/22 latest or similar to weight of branded manufacturer battery of rated capacity or **As per relevant IS specifications.**	The board will measure weight of battery with the help of weighing machine and ensure that it is as per JISC8702 / IEC standards or similar of branded manufacturer battery of rated capacity or **As per relevant IS specifications**.
6	Dimension and Marking	As per JISC 8702 or IEC 60896-21/22 latest or similar to size of branded manufacturer battery of rated capacity **or As per relevant IS specifications.**	The board will check the dimension and marking and ensure that it is as per JISC8702 / IEC latest standards or similar of branded manufacturer battery of rated capacity or **As per relevant IS specifications**.
7	Terminal type	As per JISC or IEC 60896-21/22 or **As per relevant IS specifications or** any standard.	The board will check physically that Terminal of battery is as per JISC 8702 / IEC latest standards.

S. N	Specifications	Trial Directives
8	The quoted battery should fulfill the following specifications as per the JISC (**Japanese Industrial Standards Committee**) 8702/1998 or IEC 60896-21/22 latest or any equivalents standard. 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	Firm will produce Test Report of the all parameter shown under para-8(i to x) as per JISC 8702 /IEC latest standard for these batteries from Govt. of India approved Laboratory. Board will check these certificates and will ensure that test report is complying above standards.
9	**At least the following items shall be adequately designated on the battery:-** 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. vii) Additional data such as recommended charging voltage, charging current, capacity at other discharge rates, battery mass and other instructions shall be supplied with the battery.	The board will check it physically that label of battery is as per specification.
10	**Compulsory registration of BIS for safety as per IS 16046 as applicable**	**The firm will submit certificate**