

ANNEXURE-A

Supply of Battery Charging System along with standard accessories for charging of Lead Acid Batteries and supply of Blade Type Fuses for commercial vehicles as per Technical Specifications and Schedule of Qty. as given below:

Sr. No.	Item Description	Unit	Qty.
	Supply of Battery Charging System along with standard accessories for charging of Lead Acid Batteries and supply of Blade Type Fuses for commercial vehicles.		
1	Battery Charging System along with standard accessories for charging of Lead Acid Batteries of 12 Volt or 24 V.	Set	1
2	Spare for above Battery Charging System: 01 Set will consists of following items Charging Cable (Copper) length 2 meters: 01 No., Alligator Clips: 30 Nos.	Set	1
3	Blade Type Fuses 5 Amperes	Nos.	100
4	Blade Type Fuses 7.5 Amperes	Nos.	100
5	Blade Type Fuses 10 Amperes	Nos.	100
6	Blade Type Fuses 15 Amperes	Nos.	100
7	Blade Type Fuses 20 Amperes	Nos.	100

1. The Battery Charging System shall be supplied as per specifications as given above and as follows:

Sl. No.	Parameters	Values
1	Output Voltage	12 Volts or 24 Volts DC
2	Charging Capacity	14-230 Ah for 12V DC Lead Acid Battery 14-120 Ah for 24V DC Lead Acid Battery
3	Charging Controller	The battery charger shall be controlled by Micro-controller/computer unit switch mode charger
4	Charging Current	7 Amperes at 12 Volts 3.5 Amperes at 24 Volts
5	Protection/Features	<ol style="list-style-type: none"> 1. Reverse Polarity Protection 2. Short Circuit Protection 3. Overcharge Protection 4. Overheat Protection 5. Spark Protection 6. No current in clamps if charger is not connected 7. Provision of Boost Charging and Trickle Charging
6	Other Requirements and Accessories	<ol style="list-style-type: none"> 1. Mounting Hook/Clamp 2. A pair of quick connect high quality rubber insulated cable with fully insulated clamps with built in cable fuse 3. Suitable for all type of lead acid batteries VRLA, Wet Type, Gel, Open Type 4. Single button operation with mode display of charge status 5. Dust and splash proof (IP 65) 6. Regulative Function for deeply charged battery

- 2.** The Blade Type Fuses shall be supplied as per specifications as given above and as follows:

Sl. No.	Parameters	Values
1	Rated Voltage	32V DC
2	Interrupting Rating	1000A @ 32 VDC
3	Plating	Tin/Silver
4	Component Level Temperature Range	-40°C to +105°C
5	Terminals	Sn plated zinc alloy or Ag plated zinc alloy
6	Complies with	SAE J2077, ISO 8820-3
7	Color Coding	with

3. Packing:

The material shall be packed properly to prevent damage during transit. Damaged material received at site shall be rejected and supplier shall arrange for replacement of the same without additional cost implications.

4. Instructions to Bidder:

- 4.1 Bidder shall enclose the detailed technical specifications of offered material along with their offer. The detailed specifications shall include Charging Current, Output Voltage, Charging Capacity, Charging Controller, Power Input, Input Current, Protection, features, accessories for battery charger etc. The offers devoid of such technical specifications shall be rejected.
- 4.2 The material shall be supplied to Stores Officer, Heavy Water Plant-Kota, via-Kota, Anushakti, Rajasthan-323303.

QUALITY ASSURANCE PLAN

Supply of Battery Charging System along with standard accessories for charging of Lead Acid Batteries and supply of Blade Type Fuses for commercial vehicles.

S N.	Components & Operation	Characteristics	Type of Check	Quantum of check	Ref.Doc.	Acceptance Norms	Form of Record	Insp. Agency		
								P	W	R
1	Battery Charging System	Parameters i.e. Charging Current, Output Voltage, Charging Capacity, Charging Controller, Power Input, Input Current etc	Major	100%	Tender Specifications in Annexure-A	Tender Specifications in Annexure-A	Conformance Certificate by Supplier/Manufacturer	1,2	-	3
2	do	Features i.e. Protection, Other Requirements and Accessories	Major	100%	Tender Specifications in Annexure-A	Tender Specifications in Annexure-A	Conformance Certificate by Supplier/Manufacturer	1,2	-	3
4	Blade Type Fuse	Parameters i.e. Rated Voltage, Interrupting Rating, Plating, standards, Terminals etc	Major	100%	Tender Specifications in Annexure-A	Free from Defects	Conformance Certificate by Supplier/Manufacturer	1,2	-	3

LEGENDS;

P = Performing Agency, W = Witnessing Agency, R = Review of Documents Agency

1 = Sub-Vendor, 2 = Supplier/Manufacturer, 3 = HWP (K) Representative