

Specifications, Terms and Conditions for 2V, 200 Ah SMF VRLA batteries

1. Batteries shall be supplied in fully charged condition.
2. Necessary interconnecting cables / strips with clamps and terminal covers shall be provided.
3. The batteries shall be arranged in six banks (Four banks in one location and two banks in another location). Each battery bank shall consist **240 nos.**, of **2V, 200 Ah Sealed Maintenance Free VRLA** batteries in **suitable rack stands** and one spare battery bank consisting of 60 nos.. of 2V, 200 Ah VRLA batteries.
Total no., of batteries 1500 Nos.,
4. Testing :

Pre-Delivery

- a. The batteries shall be arranged in six banks each consisting of 240 cells
- b. The entire battery banks shall be subjected to **C3 discharge test** as part of acceptance test towards qualifying the batteries before dispatch at your factory.
- c. Necessary test loads, manpower and instruments shall be arranged by the party to carry out this pre-delivery testing.
- d. The testing shall be carried out one bank at a time.
- e. After the discharge tests, the batteries shall be charged and delivered to us in fully charged condition.
- f. The details of charging after the C3 discharge shall be submitted for review.
- g. Acceptance criteria: All the batteries ECV shall be within the acceptable value at the end of C3 discharges test. In case the batteries fail to clear the C3 discharge test the tests shall be repeated after necessary charging.
- h. The party shall ensure that the batteries as a complete set pass the C3 discharge test.

After Installation and commissioning at our site

- a. The battery banks will be tested for C10 discharge at our site after installation in addition to C3 discharge test at factory **ONLY if** the delivery and subsequent installation at our site delayed beyond 15 days from the date of C3 discharge test at your factory.
- b. Necessary resistance load bank to test batteries will be provided by us and all works related to load testing of batteries will be carried out by us for the C10 test after installation at our site. You shall depute your service persons for supporting and for witnessing the test.

- c. In case, the batteries fail to clear the acceptance test during first instance, the test will be repeated after charging (Constant voltage mode charger only available with us) as directed by the battery supplier personnel.
5. The unpacking, installation and interconnection of batteries shall be carried out by the supplier.
 6. The unloading of the batteries from the truck is in our Scope.
 7. The batteries shall be guaranteed for minimum 24 months from the date of commissioning against any manufacturing defects. Guarantee certificate shall be submitted along with the batteries.
 8. The supplier shall submit the catalogue of the battery and mention the model no. along with the quote.
 9. ONLY authorized sales representative / dealer of are eligible to quote. **Necessary certificate from battery manufacturer shall be submitted along with the quote.**
 10. The supplier shall supply four nos., of torque wrench of suitable rating as tool to tighten the battery terminals.
 11. The batteries performance shall meet the following criteria
 - a. Self-discharge: Less than 0.5 % per week
 - b. Self-life without recharge: Upto six months
 - c. Design float life : 20 years
 - d. Design life cycle : 4000 @ 20%DOD, 1800 @ 50%DOD, 1200 @ 80%DOD
 - e. Shall conform to IS 15549
 12. All data sheets and maintenance manual shall be supplied along with the batteries.
 13. **The party shall quote a buy back rate for old 1440 nos., of 2 V, 200 Ah Exide / Amara raja make VRLA batteries available with us.**
 14. **The price quoted in the price bid shall be after considering the buy back price of old batteries. Lowest offer will be considered along with the buy back cost and the cost of new batteries ONLY.**
 15. Offers without buy back option will be summarily rejected.
 16. Batteries shall be numbered serially with stickers after installation at our site.
 17. The price break up shall be given as mentioned in the compliance statement.
 18. The batteries shall be of make Exide / AmaraRaja / Sonnenschein / Amco / Panasonic Only.

TECHNICAL COMPLAINE STATEMENT	
Shall necessarily be filled and submitted along with the quote	
Description	Compliance Yes / No
<p>Specifications, Terms and Conditions</p> <ol style="list-style-type: none"> 1. Batteries shall be supplied in fully charged condition. 2. Necessary interconnecting cables with clamps shall be provided. 3. The batteries shall be arranged in six banks (Four banks in one location and two banks in another location). Each battery bank shall consist 240 nos., of 2V, 200 Ah Sealed Maintenance Free VRLA batteries in suitable rack stands and one spare battery bank consisting of 60 nos.. of 2V, 200 Ah VRLA batteries. Total no., of batteries 1500 Nos., 4. Testing : <ol style="list-style-type: none"> Pre-Delivery a. The batteries shall be arranged in six banks each consisting of 240 cells b. The entire battery banks shall be subjected to C3 discharge test as part of acceptance test towards qualifying the batteries before dispatch at your factory. c. Necessary test loads, manpower and instruments shall be arranged by the party to carry out this pre-delivery testing. d. The testing shall be carried out one bank at a time. e. After the discharge tests, the batteries shall be charged and delivered to us in fully charged condition. f. The details of charging after the C3 discharge shall be submitted for review. g. Acceptance criteria: All the batteries ECV shall be within the acceptable value at the end of C3 discharges test. In case the batteries fail to clear the C3 discharge test the tests shall be repeated after necessary charging. h. The party shall ensure that the batteries as a complete set pass the C3 discharge test. 	

After Installation and commissioning at our site

- a. The battery banks will be tested for C10 discharge at our site after installation in addition to C3 discharge test at factory

ONLY if the delivery and subsequent installation at our site delayed beyond 15 days from the date of C3 discharge test at your factory.

- b. Necessary resistance load bank to test batteries will be provided by us and all works related to load testing of batteries will be carried out by us for the C10 test after installation at our site. You shall depute your service persons for supporting and for witnessing the test.
- c. In case, the batteries fail to clear the acceptance test during first instance, the test will be repeated after charging (Constant voltage mode charger only available with us) as directed by the battery supplier personnel.

5. The unpacking, installation and interconnection of batteries shall be carried out by the supplier.

6. The unloading of the batteries from the truck is in our Scope.

7. The batteries shall be guaranteed for **minimum 24 months** from the date of commissioning against any manufacturing defects. Guarantee certificate shall be submitted along with the batteries.

8. The supplier shall submit the catalogue of the battery and mention the model no. along with the quote.

9. ONLY authorized sales representative / dealer are eligible to quote. **Necessary certificate from battery manufacturer shall be submitted along with the quote.**

10. The supplier shall supply four nos., of torque wrench of suitable rating as tool to tighten the battery terminals.

11. The batteries performance shall meet the following criteria

- a. Self-discharge: Less than 0.5 % per week
- b. Self-life without recharge: Upto six months
- c. Design float life : 20 years

<p>d. Design life cycle : 4000 @ 20%DOD, 1800 @ 50%DOD, 1200 @ 80%DOD</p> <p>e. Shall conform to IS 15549</p> <p>12. All data sheets and maintenance manual shall be supplied along with the batteries.</p> <p>13. The party shall quote a buy back rate for old 1440 nos., of 2 V, 200 Ah Exide / Amara raja make VRLA batteries available with us.</p> <p>14. The price quoted in the price bid shall be after considering the buyback price of old batteries. Lowest offer will be considered along with the buyback cost and the cost of new batteries ONLY.</p> <p>15. Offers without buy back option will be summarily rejected.</p> <p>16. Batteries shall be numbered serially with stickers after installation at our site.</p> <p>17. The price break up shall be given as mentioned in the compliance statement.</p> <p>18. The batteries shall be of make Exide / AmaraRaja / Sonnenschein / Amco / Panasonic Only.</p> <p>19. The price break up shall be given as below Fill up the details in Rupees in the compliance column</p> <p>a) Cost of one 2V , 200 Ah battery :</p> <p>b) Cost of 1500 nos., of new batteries</p> <p>c) Taxes at --- %</p> <p>d) Total cost : (b) + (c)</p> <p>e) Buy back cost for one no., 2 V, 200 Ah Exide / AmaraRaja SMF VRLA batteries</p> <p>f) Total Buy back cost : (e) X 1440</p> <p>g) Net cost : (d- f)</p> <p>20. Deviations if any from the above. If no deviation please mention NIL in the compliance column</p>	
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