

OWNER	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION (TANGEDCO)
PROJECT	2 x 660 MW Udangudi STPP (Stage-I)
PI NO.& DATE	04I2000066 dated 28.06.2019

Corrigendum to Technical specification
TB-400-508-017A-Rev 00: 220V & 48 V BATTERY SYSTEM

Date: 17.08.19

Clause 1.3.1 & 1.3.2 to be replaced as below:

1.3 Specific Technical Requirements

1. System voltage: 220 V

Max. Voltage = (Sys. Vol. +10%)

Min. Voltage = (Sys. Vol. -15%)

LOAD & CORRESPONDING DURATIONS		
LOAD A1 (Amps.)	60.35	119 min
LOAD A2 (Amps.)	235.50	1 min

Battery capacity should be minimum 535AH (subject to it fulfills the above load requirement with design requirement as given in specification, Bidder to submit the sizing calculation for justification)

2. System voltage: 48 V

Max. Voltage = (Sys. Vol. +10%)

Min. Voltage = (Sys. Vol. -15%)

LOAD & CORRESPONDING DURATIONS		
LOAD A1 (Amps.)	44	600 min

Battery capacity should be minimum 645AH (subject to it fulfills the above load requirement with design requirement as given in specification, Bidder to submit the sizing calculation for justification)

Clarification to Battery spares Sl. No. h):

S. No.	Item description	Quantity	Remarks
h)	BHMS sensor (for each type and rating)	1 LOT	10 % of total population

Bidder may provide Control card/sensor card which include sensors for sensing battery data, Quantity should be 10 % of total population (separately for 220V & 48V system)

Page 1 of 2

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Add clause 2.1.14

Battery health monitoring system for monitoring the individual battery voltage and monitoring the battery AH capacity shall be part of this system.

The battery management shall use a two-layer monitoring mode to on-line monitor the battery parameters, including cell voltage, charge/discharge current and ambient temperature. Its function shall include:

- Calculating the battery capacity change according to the battery charge/discharge situation.
- Carrying out current-limit boost charge (BC) automatically according to the preset conditions after the battery discharge.
- Carrying out normal battery BC by controlling the bus voltage.
- Carrying out timed battery BC and BC/FC voltage temperature compensation automatically.

The battery management system shall transfer battery from float charge (FC) to boost charge(BC) based on the battery charge current, and from BC to FC based on the charge current and time. It shall be equipped with a temperature sensor, to make temperature compensation to the FC voltage. Based on the battery current and total load current, the system shall ensure the charging effect and prolong the battery life span by adjusting rectifier output current and current limit to control battery current and voltage, and prevent battery over charging-current.

Page 2 of 2

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