

1 July 2024

Dear Respondents,

RFQ no. TFR/2024/06/0007/69645/RFQ (ERAC-RCB-46858-MM-215) – Provision, installation, and training for 60V_8kW battery chargers / rectifiers at various sites

Transnet Freight Rail (a division of Transnet SOC Ltd) expresses its thanks and appreciation for your participation in the bidding of the above-mentioned RFQ.

Transnet Freight Rail received the below seen queries from bidders on the abovementioned RFQ. Herewith Transnet Freight Rail's responses to the queries:

Queries:

1. "For what application will this charger be used?"
2. "Is there a preferred make/brand to be used."
3. "Please kindly grant us the 2 weeks extension in order to get clarity on the questions and time to finalise our offer."
4. "We have the following technical clarification questions:
The price schedule on page 15, Item 1 calls for a 60V 8kW charger/rectifier with a minimum of 6 rectifier modules.
 - o With 8 kW and 6 modules the expected power per module is $8\text{kW}/6 = 1.33\text{kW}$ per module.
 1.33kW at 60V equates to a current of 22.17 A per module.
6 modules will then provide $6 \times 22.17\text{A} = 133\text{A}$.
 - o The consummation current is specified as 80A and needs to be used to calculate the required number of modules.
 60V and 8kW equates to a current of $8\text{kW}/60\text{V} = 133\text{A}$.
The 80A requirement contradicts the 8kW at $60\text{V} = 133\text{A}$
- 4.1. "Please clarify the requirement for 6 modules, 60V, 8kW and 80A versus 133A requirement."
- 4.2. "Item 2 calls for the installation of Installation consists of installing the battery bank, trip switches and all charger modules. It must be 100% compliant/ functionally. Installation will be at different site namely, Richards Bay, Nsezi, Umunywana and Komvoorhoogte. Please clarify and define the battery bank in terms of number of cells or number of 12V blocks."
- 4.3. "Please specify the overall battery bank voltage and whether this is for the 60V charger mentioned or for other equipment."
- 4.4. "Batteries are not called for in the enquire and is assumed to be available at the depots including the stands and / or cabinets."
- 4.5. "Are the batteries at the sites mentioned or should the successful bidder transport the batteries from a store or depot to the sites?"

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- 4.6. "Item 2 further calls for the installation of "trip switches and all charger modules. It must be 100% compliant/ functionally". The above sounds like switches and charger modules to be installed in a PDC. Please clarify who supplies the switches as well as the requirement."
- 4.7. "Please also clarify the requirement for "fully functional".
- 4.8. "Item 3 calls for training. Is the training expected to be done at one of the mentioned sites or at the tenderer's premises?"

** Note: Queries are quoted exactly as received*

Transnet's responses:

1. Telecommunication equipment.
2. There is no specific brand; the Goods being offered should be fit for purpose and aligned to Transnet's operational requirements.
3. Kindly note that due to the time-sensitive nature of this procurement event, an extension to the closing date is not possible.
- 4.1. The requirement is to have a rectifier that when connected; it will be able to handle consumption current of 80A. The number of modules that is required the supplier can calculate for installation purposes. However, we require 6 in total to be supplied. E.g. if the supplier sees that only 3 modules required to meet the requirement, then 3 modules will be installed and 3 will be provided as spare.
- 4.2. Lithium battery is the preferred one, but it can be AGM/Gel/Lead or any other type as long as the minimum is (4x12V) 48VDC with 200Ah capacity because most lithium come as 1 48VDC battery.
- 4.3. 48V, it is for the charger.
- 4.4. The supplier will have to provide the whole system including the batteries, cabinets, terminals, all that is needed for installation.
- 4.5. No, the bidder must provide and transport to site.
- 4.6. The bidder must supply the switches.
- 4.7. The trip switch must be able to do it functions, switch on or off and when there is high voltage.
- 4.8. Training to be conducted at: 1 San Thom Road, Transtel old building, Port of Richards Bay, 3900.

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Kind Regards,

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