

TPL/2023/07/0005/35021/RFP

REPLACEMENT OF CRUDE BOOSTER STATIONS, AIRCOOLED MEDIUM VOLTAGE VARIABLE SPEED DRIVES AT THE FIVE CRUDE PIPELINE BOOSTER STATIONS

SCHEDULE OF TENDER CLARIFICATIONS

NO.	QUESTION	RESPONSE
1.	Please kindly assist us on the tender document (TPL/2023/07/0005/35021/RFP) page 81 where we have to attach a last three years audited financial statements. As our company is still developing, we are not in possession of audited financial statements however we do have unaudited financial statements. We therefore would like to find out if the unaudited financial statements and management accounts are acceptable as our company is an EME (Emerging Micro Enterprise) and we not required by law to have audited financial statements given the size of our company.	Yes, can submit unaudited if the law does not require that size of the company to audit their financial statements.
2	Dimensioned layout drawing of VSD substations, including elevations and sections OR confirmation of the ceiling height and dimension of equipment doors.	VSD room door opening: 1,56m(width) 2,4m(height) Ceiling height 2,9m
3	Layout drawing of the individual sites for purposes of determining the distances between MV switchgear, transformer and VSD's, should we need to replace the cables	Approx. Cable run lenghts: MV switchgear to trfr: 65m Trfr to VSD: 20m VSD to motor: 70m
4	Datasheets of the existing 3-winding transformers supplying the VSD, specifically with confirmation of the voltage of each of the secondary windings	Mngeni, Duzi, Mooi River: 11000V - 1902V/1902V Fort Mistake, Wilge: 22000V - 1902V/1902V
5	Confirmation of the power and battery capacity ratings for the 400V auxiliary supply UPS feeding the VSD	30kVA, 3 phase UPS.
6	With regards to the single line drawings, 12-pulse transformers are used together with a 12 pulse drives on both 11kV and 22kV lines, is Transnet willing to change the transformers (to use normal distribution transformers) or the same transformers will be used with the new MV drives.	We will consider the various proposals and evaluate to find the most suitable option for the business. The bidders will have to provide detail designs of equipment on the options proposed
7	Will Transnet consider using 18 Pulse, 24 Pulse, active front end drives?	Yes

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8	To provide a detailed proposal and meet all submission standards for Transnet, can we be granted additional time for submission? (3-5 weeks extension)	we will discuss internally advise further																											
9	Would it be possible to get the actual name plate of the motor? Motor Rated Power 1290kW Duzi, Mngeni, Mooi River, Fort Mistake; 1560kW Wilge Rated Full load Current of Motor 386 A Just wanted to confirm that 1560kW Wilge is 368A, Can you please confirm the full load amps of 1290kW Duzi, Mngeni and Mooi River.	Motor information is on the data sheets. What additional info is required? Mngeni, Duzi, Mooi River, Fort Mistake – motor current is 251A Wilge – motor current is 306A																											
10	Thank you for the clarification regarding the voltage of each of the transformer secondary windings being 1902V. Would you kindly confirm what transformer tap settings are available on these transformers? We would like to reduce the voltage to as close to 1700V as possible.	Tap changer settings + - 5%.																											
11	12-Pulse Drives and transformer are not IEEE compliant, is Transnet willing to accept a 12 Pulse solution as shown on the drawing? From the scope of work and specification I did not see any mention of avoiding a 12-pulse solution, as we do not provide a 12 Pulse solution as it is not IEEE compliant.	TPL will consider a 12 pulse Drive.																											
12	regarding the full load current, motor speed and the Ex-protection. • How many poles are these motors? • The current seems to be too high for the given power rating, what is the motor power factor? We cannot have the same current for two different power sizes either. • Motor Ex protection is it an indication only as this specify the motor type? <table border="1"> <tr> <td>22</td><td>Load Characteristics</td><td></td></tr> <tr> <td>23</td><td>Motor Rated Power</td><td>1290kW Duzi, Mngeni, Mooi River, Fort Mistake; 1560kW Wilge</td></tr> <tr> <td>24</td><td>Motor Type</td><td>Squirrel Cage Induction Motor</td></tr> <tr> <td>25</td><td>Rated Voltage</td><td>3300 V</td></tr> <tr> <td>26</td><td>Rated Speed of Motor</td><td>3150 rpm</td></tr> <tr> <td>27</td><td>Rated Full load Current of Motor</td><td>386 A</td></tr> <tr> <td>28</td><td>Application</td><td>Centrifugal Pump</td></tr> <tr> <td>29</td><td>External Braking Resistor</td><td>No</td></tr> <tr> <td>30</td><td>Motor Ex Protection</td><td>Ex de IIB T4 (IEC 60079-1)</td></tr> </table>	22	Load Characteristics		23	Motor Rated Power	1290kW Duzi, Mngeni, Mooi River, Fort Mistake; 1560kW Wilge	24	Motor Type	Squirrel Cage Induction Motor	25	Rated Voltage	3300 V	26	Rated Speed of Motor	3150 rpm	27	Rated Full load Current of Motor	386 A	28	Application	Centrifugal Pump	29	External Braking Resistor	No	30	Motor Ex Protection	Ex de IIB T4 (IEC 60079-1)	2 pole motor. Mngeni, Duzi, Mooi River and Fort Mistake. 251A Wilge. 306A The motor is Ex rated.
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13	Please advise if we can arrange to view the current VSD setup on site?	The site briefing was completed on 03 October																											

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14	In the tender document - Technical Data Sheet 1, reference is made to the Medium Voltage motors currently used. It is referenced that the motors have Ex Protection = Ex de IIB T4 (IEC 60079-1) - Can you please help with additional information regarding all 5x MV motors for: - o Are all 5x MV motors equipped with temperature sensors? If yes: ▪ what type, ▪ what location in the motor ▪ what qty? May we please get a copy of all 5x MV motor's ATEX certificate(s)	Stator temperature RTD sensors. Wiring box mounted on the motor. 3 per motor.
15	Pg 6 of 256, Clause 6 If company has a CSD number, is a new registration to be done specific to the Tender Reference number?	No. Only one CSD number is issued by National Treasury.
16	Pg 16 of 256, T2.2-01, Technical Data Sheets Are these Data Sheets the only required for completing and submission (Pgs 23-25)	Please complete the data sheets and submit
17	Pg 20 of 256 Item 9, Pg 21 of 256 Item 8 States that 'Hazardous Area Certification' is N/A. Please advise as to who's responsibility it is to obtain this certification. Also refer to 'Note 5' for further clarification.	The VSD is installed inside a building and is a safe area. Only the motor is EX rated.
18	Pg 20 of 256 Document requirements, Item 17 Pg 24 of 256 Data Sheet 2, Item 48 'VSD/Motor combination testing for Zone 1 certification' – is general ATEX certification sufficient or must the certificate be as per individual VSD/Motor serial numbers As per Data Sheet Explosion protection marked as not applicable. Please advise as to who's responsibility it is to obtain this certification.	SANS certification and compliance required.
19	Pg 23-25 of 256, Technical Data Sheet 1,2 and 3 Is this the only Data Sheet that needs to be completed?	Please complete the data sheets and submit
20	Pg 26 of 256, T2.2-02, Organisational Charts and CV's of Key Persons Is this only required for Tenderer or is this required for the Tenderer's sub-contractor	At this stage the tenderer's details required.
21	Pg 42-47 of 256, SBD 6 Confirm that this is the full SBD 6 form required for completion and returnable.	Yes
22	Pg 80 of 256, T2.2-20, Form of Intent to Provide a Performance Guarantee Please clarify as to what the Performance Guarantee is for/against	this will be for non-performance linked to the terms of the contract that will have to be honoured

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23	Pg 108, X13, Performance Bond Please clarify as to what the Performance Bond is for/against	this will be for non-performance linked to the terms of the contract that will have to be honoured
24	Ordering Process Kindly confirm if a single purchase order will be placed for the entire project with delivery milestones, i.e. 2024 and 2025. Will separate task orders be provided per site.	There will be separate task orders and payments per site. Yes.
25	Installation Certification Requirement Kindly confirm if the Installation of the new drives needs to be certified for the Hazardous location.	VSD's are in safe area.