

Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

No.	Reference	Date Received	Clarification Required	TNPA Response Date	TNPA Response												
1	Commercial	17.01.22	We respectfully request an extension of time to the closing date of this Tender. The reason for our request is based on : 1. Many of the suppliers closed for the Builders break around 10 Dec 2021 and only resume today, 17th January 2022. 2. Impact of Covid on the supply chain. 3. This being a Design and Construct Contract there is inherently interface complicities between trades, and we require appropriate time to evaluate the risks and deal with the risks to mitigate the impact on TNPA. For the reasons stated above we request TNPA to grant us 4 weeks extension of time.	19.12.2022	Addendum will be issued.												
2.	PART 2: PRICING DATA - C2.2 The Bill of Quantities	18.01.2022	Is it possible to request an excel B.O.Q for pricing purposes?	19.12.2022	EXCEL format will be issued for calculation purpose only.												
3.	PART 2: PRICING DATA - C2.2 The Bill of Quantities	19.01.2022	Good day Shani, Please kindly see below our Clarification CL03. On the B.O.Q. Section 5: Budgetary Allowance there is a discrepancy of the between the numeric Provisional sum and the written amount in the description column. Please can you kindly clarify if the written amount in the description column is incorrect? <table><tr><td>Provide a sum of R 30 000.00 (One Hundred Thousand Rands Only) Supply and install galvanised gutters and downpipes</td><td>Prov sum</td><td>1</td><td>R 30 000,00</td></tr><tr><td>Provide a sum of R 40 000.00 (One Hundred Thousand Rands Only) for ventilation</td><td>Prov sum</td><td>1</td><td>R 40 000,00</td></tr><tr><td>Provide a sum of R 70 000.00 (One Hundred Thousand Rands Only) for supply and installation of doors</td><td>Prov sum</td><td>1</td><td>R 70 000,00</td></tr></table>	Provide a sum of R 30 000.00 (One Hundred Thousand Rands Only) Supply and install galvanised gutters and downpipes	Prov sum	1	R 30 000,00	Provide a sum of R 40 000.00 (One Hundred Thousand Rands Only) for ventilation	Prov sum	1	R 40 000,00	Provide a sum of R 70 000.00 (One Hundred Thousand Rands Only) for supply and installation of doors	Prov sum	1	R 70 000,00	19.12.2022	Addendum will be issued.
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End of Rev 00																	
4	Commercial	24.01.2022	We want to do a joint venture on this tender. Who’s CIDB Rating would you use in the Scoring function?	24.01.2022	Please refer to T1.2: Tender Data, C2.1.4 below. C2.1.4 Stage four - Eligibility in terms of the Construction Industry Development Board: a) Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, designation of 7ME or higher class of construction work, are eligible to have their tenders evaluated. b) Joint Venture (JV)												

Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

					Joint ventures are eligible to submit tenders subject to the following: 1) every member of the joint venture is registered with the CIDB; 2) the lead partner has a contractor grading designation of 6ME or higher class of construction work; and 3) the combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a Contractor grading designation determined in accordance with the sum tendered for a 7ME or higher class or higher class of construction work or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations 4) The tenderer shall provide a certified copy of its signed joint venture agreement. <i>Any tenderer that fails to meet the stipulated eligibility criteria will be regarded as an unacceptable tender.</i> Please take note that all the documents listed below must also be supplied by all parties involved in the Joint Venture. • A valid Tax Clearance Certificate issued by the South African Revenue Services. Tenderers also to provide Transnet with a TCS PIN to verify Tenderers compliance status. • A valid B-BBEE Certificate from a Verification Agency accredited by the South African Accreditation System [SANAS], or a sworn affidavit confirming annual turnover and level of black ownership in case of all EMEs and QSEs with 51% black ownership or more together with the tender; • Consolidated B-BBEE certificate for the JV; • A valid CIDB certificate in the correct designated grading; • Proof of registration on the Central Supplier Database; • Letter of Good Standing with the Workmen’s compensation fund by the tendering entity or separate Letters of Good Standing from all members of a newly constituted JV.
End of Rev 01					
5	PART 2: PRICING DATA - C2.2 The Bill of Quantities	27.01.2022	Fibre Cement Lined piping – This product is mentioned in the scope of work and in the B.O.Q. but it is not defined in the Piping specification. Please can you kindly provide the Piping spec on the internal lining	31.01.2022	The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 – Addendum will be issued The piping specification will be updated and sent through to provide a more detailed specification. Revised – 16.02.2022 - No addendum will be issued The piping is to be internally protected by applying a 12.5mm thick spun cement lining as per the BOQ. The joints and flange connections are to be protected by the hand trough method and grouted accordingly.
			Can we shop flange and line all underground piping in spools? It is not feasible to site weld and join the fibre cement lined piping in the field on 150NB & 250NB Piping. This is normally considered on 400NB and above.		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 This will be acceptable, the quality control procedure needs to be detailed and inspection needs to be done on site to ensure no damage occurs to lining in transport. Revised – 16.02.2022 – No addendum will be issued This will be allowed if there is proper quality procedures and checks in place to ensure the fibre cement lining is not damaged in transport. The QCP will have to outline the quality control procedure for this.

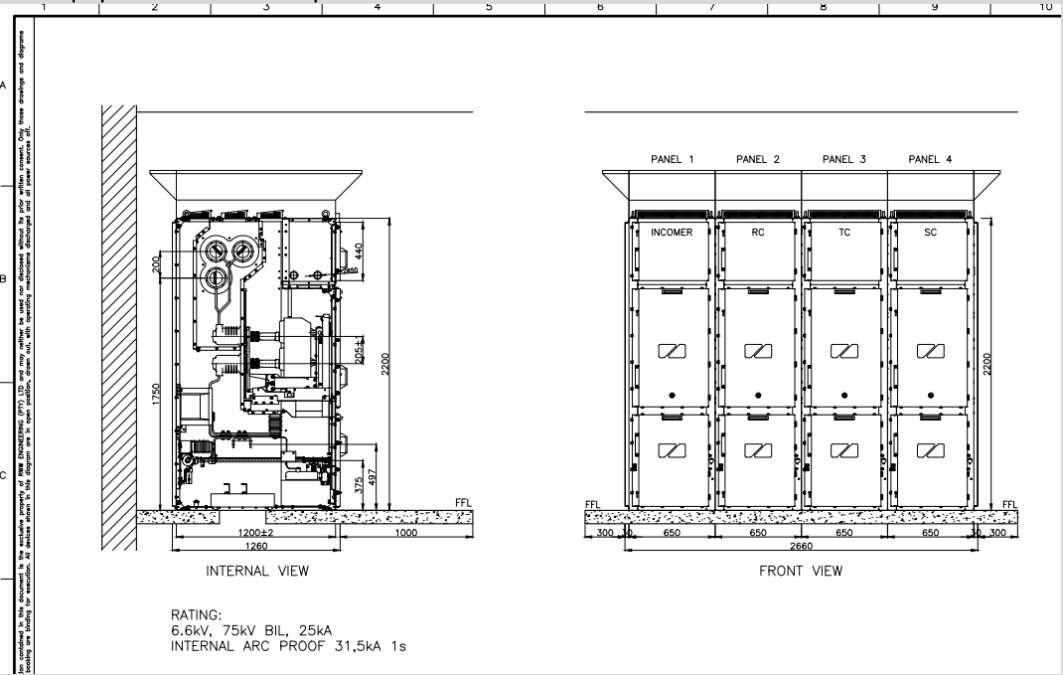
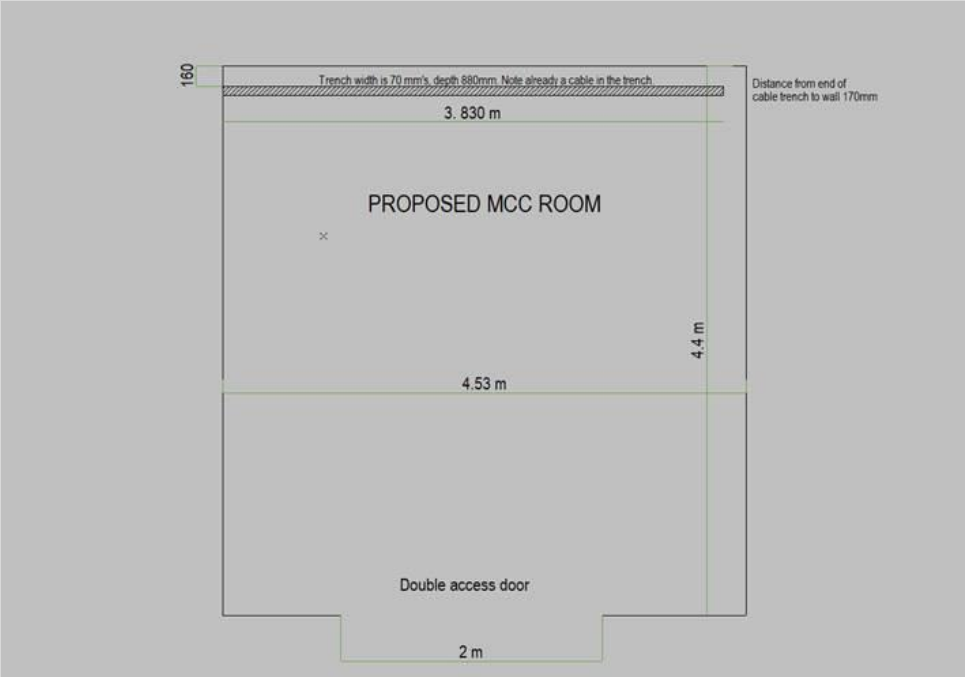
Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

			150NB Fibre Cement Lined piping (External to pump house underground) - 150NB pipe = 35m - 150NB Flanges = 0 off (Number of Flanges indicates welding? Or is this an error?) - 150NB Bends = 5 off		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 – Addendum will be issued – Addendum 002 The majority of the piping will be welded and longer sections (12m) can be connected with the internal cement lining. The BOQ was adjusted to reflect the number of flanges anticipated. The detailed pipe design will be done before construction. Revised – 16.02.2022 Retracted – 28.02.2022 The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course.
			150NB Fibre Cement Lined piping (External to pump house encased) - 150NB pipe = 20m - 150NB Flanges = 4 off (Number of Flanges indicates welding? Or is this an error?) - 150NB Bends = 3 off		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 – Addendum will be issued The BOQ was adjusted to reflect the number of flanges anticipated. The detailed pipe design will be done before construction. Revised – 16.02.2022 - Addendum was issued – item 7.1.55; 7.1.56 and 7.1.57 The majority of the piping will be welded and longer sections (12m) can be connected with the internal cement lining.
			Not Indicated on below drawing 150NB Fibre Cement Lined piping (External to pump house Above ground) (where is there above ground piping besides leading in and out of the Pump house? Where is the 250NB line then?) - 150NB pipe = 6m - 150NB Flanges = 0 off (Number of Flanges indicates welding? Or is this an error?) - 150NB Bends = 3 off		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 – Addendum will be issued The BOQ was adjusted to reflect the number of flanges anticipated. The detailed pipe design will be done before construction. The above ground 205NB line is between the manhole and the new jockey and booster pump station as shown on drawing 2123421-1-000-M-LA-0001-01-0F Revised – 16.02.2022 - Addendum 002 was issued – item 7.1.55; 7.1.56 and 7.1.57 The majority of the piping will be welded and longer sections (12m) can be connected with the internal cement lining. The above ground 205NB line is between the manhole and the new jockey and booster pumpstation as shown on drawing 2123421-1-000-M-LA-0001-01-0F.
			Would Transnet consider Relisan lining all piping including the External to pump house piping?		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised – 9.02.2022 Kindly follow the piping specification, no deviations for tender purposes Revised – 16.02.2022 The pipe coatings shall be as per the specification and BOQ. We will not allow any changes for tender.
End of Rev 02					
6	Commercial	31.01.2022	Please let me know, when does the “Clarification” period close?	31.01.2022	Last day for questions – Five working days before the closing date. (17 February 2022, 16:00pm)
End of Rev 03					

Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

7	PART C3: SCOPE OF WORK	1.02.2022	TNPA to confirm that Sea water 2 Pump station is not with in any Hazardous chemical zone on the berth as the pumps specified are not Hazardous classified pumps , thereby all other associated electrical equipment will also not be hazardous equipment.	9.02.2022	The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised - 28.02.2022 The Seawater pump station number 2 is classified as zone 2 area.
			The existing Sea water pumps and control equipment inside the pump station is not hazardous rated as seen on the site inspection		The item being queried is being reviewed by the project team and further clarification or an addendum will be issued in due course. Revised - 28.02.2022 The Seawater pump station number 2 is classified as zone 2 area.
			What is the KW rating of the new 6.6KV Horizontal split case pump motor, for the Gorman Rupp MAS SPLT 125-315 as it is not listed		The contractor can contact the manufacturer for this information. The model numbers were provided as per the information provided from Kantey.
			TNPA to confirm that the Vamp 50 motor protection relay is to be fitted and commissioned onto the 11KV Switchboard		The Vamp 50 motor protection relay shall be fitted and commissioned on the 11 kV switchboard which will be installed by others.
			The 2 X Filler pumps have only mechanical pressure indicators fitted should there not be presser transmitters fitted as well, input back to Scada for historizing and pressure analyses on the condition of strainers this will show if strainers are blocked or limiting flow		This can be added and would make maintenance work more decentralized. I think the maintenance team however does physically check these items often as these are the main pumps and hence the link to SCADA was not required.
			Booster pump is specified as Auto transformer starting what is the expected duty Cycle per hour in terms of the number of times per hour the booster pump will start this info is critical in sizing the transformer and the rating of the booster pump motor, the main sea water 6600 v pump starting is limited to 2 starts per hour on the auto transformers they are connected.		The booster pump is not expected to start up often, this is the duty of the jockey pumps. 2 starts per hour should be sufficient, however the Contractor shall determine this as part of their design.
			Item 4.5.9 on the bill of Q list vibration and temperature sensors for 6.6kv motors what make is currently used by TNPA on the SCADA system and for the existing 6.6 kv motor vibration and temperature sensors		TNPA utilizes IFM product for all vibration and temperature sensors
			What is the requirements for staff training of the system to operators, engineering staff and artisans How many persons will be attending per session and does TNPA have facilities or must it be priced separately or will it just be on site training.		The requirements are as listed below: A total of 24 staff will require training on the system which take place on site. The training is to ensure that the staff utilising the system fully understand how the system works.
			Will training material be require per person - Item 1.1.19 in the BOQ listed as a sum item		The tenderer is to provide the training material documentation as per the updated works information. The training material should take the individuals through the control and maintenance aspects of the completed project.
8.	PART 2: PRICING DATA - C2.2 The Bill of Quantities	3.02.2022	1. The Following Items are not measured on the B.o.Q. Provided. • Clear & Grub – Removal of paving • Bulk Excavation – Removal of current roadbed, we will need to understand what was built before so we can determine the depth of the roadbed. • Layer works – New roadbed for foundation – need to understand what type of roadbed we will require to build. • Blinding – need to understand if blinding will be required before we pour the foundation and floor. Do we include these items in our pricing or exclude it until it is a contract? IT will be very difficult to compare pricing if everyone makes their own assumptions 2. For the pipe trench only, have the following missing items. • Excavate trench • Lay Pipe with enhancement • And fill • What do we put on top of the fill, or do we just leave it as is. Do we include these items in our pricing or exclude it until it is a contract? IT will be very difficult to compare pricing if everyone makes their own assumptions		• Included in budgetary allowance section of B.O.Q. item 2.1.8 and 2.1.9 • Included in budgetary allowance and B.O.Q item 9.1.15 and 2.1.8 - 2.1.9, • Included in budgetary allowance in item 9.1.9 • Yes, this item is covered in the B.O.Q in item 3.1.1 • The item is in the B.O.Q in item 7.1.55 • Included in a budgetary allowance in item 7.1.55 • It has been updated in the B.O.Q in item 2.1.10 • It has been updated in the B.O.Q in item 2.1.10
End of Rev 04					

Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

9.	PART C3: SCOPE OF WORK	10.02.2022	Query 1: The BOQ lists the booster pump as 6.6kV, and the instrumentation for the motor also refers to a 6.6kV motor and the BOQ refers to an 800kVa Auto-Transformer, however Annexure R which pertains to HSE talks about the project involving a dual ratio transformer 11kV/6.6kV/400V. Is an auto transformer required for the 6.6kV motor or is a dual ratio transformer required, meaning would the motor voltage be 6.6kV or 400V? If it is an auto transformer, could we be provided with required fault levels and the voltage at point of supply? Query 2: Are suitable 96mm x 96mm analogue ammeters required for each starter in the M.C.C and wall mounted panels, if so, is it one per starter or one per phase (3 per starter)?	15.12.2022	1.1 An auto transformer starter is required for the 6.6 kV motor 1.2 Voltage at point of supply is 6.6 kV 1.3 Fault level of MV switchboard supplying the booster pump at 6.6 kV is 25 kA 2.1 One 96 mm x 96 mm ammeter per starter.
End of Rev 05					
10.	PART 2: PRICING DATA - C2.2 The Bill of Quantities	14.02.2022	In Bill of quantity a 800 KW auto transformer is listed for supply and install Section 4 electrical; section 4.6.1 From prices and technical data sheet we have now received from various pump manufactures the 6600 V Booster pump motor is a 315KW motor. Please advise if we can down size the 800KW to a 315KW auto transformer And if can we have another 5 working days extension as this is a critical design change to the overall success of this project.	28.02.2022	The tenderer is to price the specifications as per the works information and bills of quantities.
End of Rev 06					
11.	PART C3: SCOPE OF WORK	15.02.2022	Please assist with the following: We need Transnet to give us the room size for Auto transformer starter and transformer to fit into, even if it is just a sketch showing the dimensions of room, trench details and dimensions of cable trench. Below is the dimensions of the MCC we are offering Transnet, if the room Transnet has allocated to us for the equipment it will be a problem 	18.02.2022	- Trench width is 70mm depth, 880mm. Note already cable in the trench 
End of Rev 07					

Clarification Register: HCT/10/13/1164 TNPA993: The Design, Supply and Construction of Jockey and Booster Pumps and Associated Mechanical, Electrical and Civil Works for the CFI Project in Island View Complex – Port of Durban

12.	PART C3: SCOPE OF WORK	16.02.2022 Revised – 22.02.22	Please assist with the following info / query. - Supply & install wall mounted 1P65 panel, complete with 4 off Red Lion PAX70000 {or equal approved) and terminals. Mounted in foam pumphouse are there any drawings for this panels, i.e., GA's, schematics etc - Provision of vibration and temperature sensors for 5.6kV motors please provide more information i.e., do the motors have to fitted with temperature sensors. Do they already have sensors, if so, how many sensors? Bently Nevada system or rockwell dynamix or similar required. The outputs will have to be wired to switchgear, where are the schematic drawings. The condition monitoring panel will require a power supply from UPS or battery charger, is a supply available? Will the system be connected to the network on site? - Design, supply, deliver, install and commissioning of the 6.6kV 800kVA autotransformer for the booster pump and it MCC panel datasheet required details of protective devices e.g., Buchholz, PRV's etc. How will the transformer be controlled? Winding material, test requirements etc.	28.02.2022	- No drawings. - A temperature sensor to be fitted to two of the stator windings on the new booster pump motor - The motor will be new so vibration and speed sensors will need to be fitted by the manufacturer or after market by an installer. - Current system being utilized is IFM. (sensors, recording units and software) - Signals from temperature sensors will be wired back to PLC analog inputs located in the existing I/O panel in foam station 2. - Vibration and speed signals will be wired back to a recording unit installed in the I/O panel in foam station 2 and the recording unit will be connected to the LAN and then displayed on the present SCADA system. - The condition monitoring signal recording unit will be installed in and obtain a supply from the existing I/O panel in foam station 2 - The system will be connected to the network on site. The closest network point is in the I/O panel in foam station 2. - Oil temperature warning and trip. - The auto transformer will be part of an auto transformer motor starter and will be controlled by the existing CFI control system which must be adapted for this control. - Winding material and test requirements must be best practice for auto transformers used for motor starters. As design has been allowed for as part of the work package this kind of information can also be finalised after award.
End of Rev 08					