



23 MARCH 2022

NOTICE TO TENDERERS NO. 4
(Pages 6)

TENDER NO: 146Q/2021/22

DESIGN – BUILD OF MECHANICAL AND ELECTRICAL WORKS FOR THE UPGRADE AND EXPANSION OF POTSDAM WASTEWATER TREATMENT PLANT

BOX NUMBER: 121

CLOSING DATE: 28 March 2022

REVISED CLOSING DATE: 29 APRIL 2022 (Refer to addendum hereafter)

Your attention is specifically drawn to the tender document for the following clarifications and amendments which are to be incorporated in the tender document for the abovementioned tender in terms of Clause C.3.2 of Part T1.2 of the Standard Conditions of Tender and you will be deemed to have made any allowance necessary to provide for these amendments in your tender offer.

Kindly be advised that tenderers must complete Schedule 24, page 80 in Part T2.2 of Volume 2 (DOCUMENT B) of the Contract Document.

QUESTIONS AND RESPONSES RECEIVED SUBSEQUENT TO ADDENDUM NO 3 AND UP TO THE ISSUE OF THIS ADDENDUM:

The following table lists key clarifications which have been communicated to the CCT via official communication channels. It should be noted that where questions or clarifications have been submitted and is not specifically addressed herein, the relevant party shall accept that the answer to the question or clarification shall be accepted as "specified in the tender document".

Tenderers shall note that these clarifications are FOR INFORMATION PURPOSES ONLY.

Item	Reference	Question/Clarification	Response
C1	General	Several items require minor civil works which would be best handled by the main Civil Contractor. Can consideration be given to moving these elements to the Civil Contract?	The civil and building-related works associated with the project will be executed under a separate contract by a Civil contractor. Refer to Sub-clause 4.6 of the General Conditions of Contract as amended.
C2	General	Can the design report for the treatment plant, including process and hydraulic calculations, be provided?	Concept design details developed for the project is incorporated into the detailed specifications of the Contract Document. No other reports will be made available.
C3	Document A, Volume 1, Part T1.2, Page 5, Clause C1.6.3	Will the proposal procedure using two stage system not be followed?	Refer to Clause C1.6.3 of the Part T1.2: Tender Data. Two stage system will not be followed.
C4	Document A, Volume 1, Part T1.1, Page 2	Are tenderers with a B-BBEE status lower than level 4 eligible to participate?	No. Only level 1 to 4 will be considered.
C5	Document A, Volume 1, Part T1.2, Page 12, Table 2, Items 6.1, 7.1	Is it acceptable to submit reference for projects executed in other countries?	Tenderers to submit offer in terms of contract specifications.

Item	Reference	Question/Clarification	Response
C6	Document A, Volume 1, Part T1.2, Page 13, Table 3	Is it acceptable to submit key personnel accredited by equivalent authority other than Washington Accord such as: -ENAAE (European Network for Engineering Accreditation) -German Institute for accreditation -Certification and quality assurance ACQUIN. -Minnistère de l'Enseignement supérieur, de la Recherche et de l'Innovation, France	Tenderers to submit offer in terms of contract specifications.
C7	Document A, Volume 1, Part T1.2, Page 13, Table 3	Will full points be granted for the key personnel holding a Bachelor degree of engineering rather than Master Degree?	Tenderers to submit offer in terms of contract specifications. (Note BEng + MEng implies you require a MEng Degree)
C8	Document A, Volume 1, Part T1.2, Page 6, Clause C.1.7	Is the Central Supplier Database (CSD) registration acceptable as an alternative to the CCT Supplier Database?	Tenderers to submit offer in terms of contract specifications.
C9	Document A, Volume 1, Part T1.2, Page 18, Clause C.2.1.4.7	Is registration with MEIBC mandatory to bid?	Tenderers to submit offer in terms of contract specifications. (Note: Clause C2.1.4.7 was amended in Addendum No.3)
C10	Document A, Volume 2, Section C2.2, Schedule E.27, Item E.27.2.1, E.27.2.2, E.27.2.3, E.27.2.4 & Document C, Volume 3B, Part C3.6, Page 3.6.6-393, DES Section PSESEC-2	Should the security fence be priced as per SoQ or is it supplied by others?	Tenderers to submit offer in terms of contract specifications. (Note: Schedule E27 was amended in Addendum No.3)
C11	Document A, Volume 2, Section C2.2, Schedule M1, Item 1.2.5.1 & Document B, Volume 3, Part C3.1, Page 143, Sub-clause 3.1.3.2 & Document C, Volume 3A, Part 3.6, Page 3.6.1-354, DMS Section 54.	With reference to the '08 Coarse screens: - SoQ states "Dismantle and remove" - Document B states "dismantling and servicing" - Document C, DMS states "thoroughly cleaned and serviced prior to storing the units" Must the contractors pricing include pricing for "Servicing"? If so, should the Engineer specify Scope of Servicing?	DMS takes precedence over SoQ. '08 Coarse Front Rake Screens to be serviced as per manufactures recommendations. No allowance for broken parts required. Only replacement of wearable or sacrificial items replaced with service activities.
C12	Document B, Volume 2, Part T2.2, Page TDS M13-3, Schedule M13.3	Can the required scope for supply of sludge management process air equipment be provided?	Tenderers to submit offer in terms of contract specifications.
C13	Document B, Volume 2, Part T2.2, Page 32, Schedule 16.B-2	The required method statements for "Design and Supply" are for off-site activities. Additionally, Section 2 (site establishment to final inspections), Sections 4 and 9 describe activities unrelated to "Design and Supply". Should these activities still be included under the Design and Supply section?	Tenderers to submit offer in terms of contract specifications. Should the tenderer deem a section of the proposed method statement structure not applicable, it is allowed to state so under the applicable heading.
C14	Document B, Volume 3, Part C1.2, Page 100, Sub-clause 4.2.	Can the Performance Bond requirement reduce to 7%? Also, will the bond be reduced as the completion of each section of works?	Tenderers to submit offer in terms of contract specifications.
C15	Document B, Volume 3, Part C3.2, Page 150, Item 3.2.2	Is the proposed design in tender documents mandatory for the tendering phase, with the design	Tenderers to submit offer in terms of contract specifications.

Item	Reference	Question/Clarification	Response
		review and detailed design required after awarding the contract?	
C16	Document B, Volume 3, Part C3.5, Page 174, Table 3.5.5.3-1 (Activity 2)	Can the detailed mechanical specifications for two temporary sludge feed pumps be provided? Can the BoQ reference for these pumps be provided?	Tenderers to submit offer in terms of contract specifications. Part C3.5 provides proposal for change over. Contractor remains responsible for allowing for Works to remain functional during switch over from '08 to '24 Works.
C17	Document B, Volume 3, Part C3.2, Page 151, Sub-clause 3.2.3, Table 3.2.3-1 & Document C, Volume 3A, Part 3.6, Page 3.6.1-110, DMS Section 25	Is the influent Raw Sewage loading equal to the influent Membrane system design loading?	Tenderers to submit offer in terms of contract specifications.
C18	Document B, Volume 3, Part C1.2, Page 123	To minimize risk and the effects of escalations, will the awarded contractor be allowed to order and store item on date of order?	Tenderers to submit offer in terms of contract specifications.
C19	Document B, Volume 3, Part C1.2, Page 113, Sub-clause 11.10	What is the required warranty period for the Wastewater Treatment Plant?	Tenderers to submit offer in terms of contract specifications.
C20	Document B, Volume 3, Part C1.2, Page 99, Item 1.1.3.3	Is the time for completion of the works 1645 days?	Tenderers to submit offer in terms of contract specifications.
C21	Document B, Volume 3, Part C3.2, Page 152, Table 3.2.3-3 & Document C, Volume 3A, Part 3.6, Page 3.6.1-7, DMS, Section 4.2	A peak influent flow of 150MLD and a design flow of 300MLD is mentioned in the two references, respectively. Can these flowrates be confirmed and clarity given on the discrepancy between PWWF & the design capacity of the '24 inlet works?	Tenders to submit offer in terms of contract specifications (refer Document B, Volume 3, Part C3.2, Head of Works p153. Note PWWF is average day flow and hydraulic design flow is hourly flow)
C22	Addendum 2 Document C, Volume 3A, Part 3.6, Page 3.6.1-71, DMS Section 18	The tip speed can only be adhered to if one of the stated specifications is given up. The specifications cannot lock installed power, tip speed and performance related to W/m ³ and the output rpm. The only way to lower the tip speed is to make the impeller smaller, however the required W/m ³ will then not be met. At the stated parameters, the designed blade length will exceed the available space between the concrete support columns, warranting a change in the existing civil design. Can the tip speed be increased to around 3.7m/s or other fixed parameters relaxed?	Tenderers to submit offer in terms of contract specifications. (Note: refer to Sub-clause 5.1 of the General Conditions of Contract as amended)
C23	Document C, Volume 3A, Part 3.6, Page 3.6.1-328, DMS Section 49	Can the tender be amended to fit the IMS Odour Control Unit specifications?	Tenderers to submit offer in terms of contract specifications.
C24	Document C, Volume 3A, Part 3.6, Page 3.6.1-253, DMS Section 43	A flow of 65MLD and 150MLD is specified for the PUFs system and micro-screen, respectively. Can it be assumed that if the flow through the micro screens is 150 MLD and only 65 MLD is fed to the PUFs, the remaining 85 MLD is directed to the maturation ponds or directly to the Diep River?	Tenderers to submit offer in terms of contract specifications. (Note: Interpretation is correct if UF system is operating at design capacity. More than 85 MI/d can be diverted away from UF plant)

Item	Reference	Question/Clarification	Response
C25	Document C, Volume 3A, Part 3.6, Page 3.6.1-253, DMS Section 43	Can the number of duty screens in relation to the design flow rate be explained? According to the design parameters table, the flow through 4 duty screens is 2708 m ³ /hr, but with 5, the flow is 2.3 times more at 6250m ³ /hr.	Tenderers to submit offer in terms of contract specifications.
C26	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	VSD & Soft Starters Specifications calls for comms link to PLC's. Whereas PLC I/O Schedule indicate PLC I/O interface not comms. Which method of communication should be quoted?	Tenderers to submit offer in terms of contract specifications. (Note: Both comms link and I/O to PLC must be allowed for in the offer)
C27	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	Please confirm that for DOL starters that electronic motor protection relay's equal or similar to Schneider Electric Tesys U will be acceptable.	Tenderers to submit offer in terms of contract specifications. (Note: Both the U and T DOL starters will be acceptable)
C28	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	Clarify the dimensions of the cable route markers to be supplied?	Refer to City of Cape Town specification drawing AM-EE-GS-004
C29	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	Will Siemens's switchgear, VSD, soft starters, , active harmonic drives, PLC, HMI MV switchgear, MV drives, Transformers, managed switches, and instrumentation be acceptable?	Tenderers to submit offer in terms of contract specifications. (Note: Any equipment equal or similar to specification is acceptable)
C30	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	All Cable support is specified as 316 Stainless Steel Heavy-duty Cable ladder a. Please confirm that Heavy duty is required for all cable support? b. Please confirm that only cable ladder is required, as no wire mesh cable tray has been requested in BOQ?	Tenderers to submit offer in terms of contract specifications.
C31	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	Can an alternative escalation formula be considered for electrical cables?	Tenderers to submit offer in terms of contract specifications.
C32	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	The quantities of instruments are not aligned with the P&IDs or project specification. It is also not clear where the instruments are to be applied (Refer schedule E11 and E22)?	Tenderers to submit offer in terms of contract specifications. (Note: Provision has been made for items to cover the requirements of the Project. Tenderers to price the SoQs accordingly. However, should the allowance be insufficient to provide Works which are fit for purpose and operate as per intended use then Tenderers shall allow for additional units as may be required)
C33	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	Kindly provide electrical Single Line Diagram drawing	Tenderers to submit offer in terms of contract specifications. (Note: Project specification and drawings to be used to compile offer, Contractor to formalise Line Diagrams as part of Detailed Design Phase)
C34	Document C, Volume 3B, Part 3.6, Page 3.6.6, General	The P&IDs show pressure gauges/switches, flow switches, level gauge switches, and UV sensors switches but the DES and SoQ doesn't make mention of these units. Does the tender offer have to make allowance for this?	Tenderers to submit offer in terms of contract specifications. (Note: Refer to DES Section PS - ECIS)

Item	Reference	Question/Clarification	Response
C35	Document C, Volume 3B, Part 3.6, Page 3.6.6, General Volume 3B, C3.6.6: Section EPLC-6-A	Please advise if the raw sewage pumps signals shall be transmitted to each remote IO only (PLC6.B) or it shall be transmitted to both PLC6.A & PLC6.B	Tenderers to submit offer in terms of contract specifications. (Note: Refer to addendum below) Tenderers to submit offer in terms of contract specifications. (Note: Transmitted to each remote I/O)
C36	Document C, Volume 3B, Part 3.6, Page 3.6.6, General Volume 3B, C3.6.6: Section EPLC	Please advise if these signals shall be transmitted to each remote IO only (PLC6.F) or it shall be transmitted to both PLC6.E & PLC6.F.	Tenderers to submit offer in terms of contract specifications. (Note: Refer to addendum below) Tenderers to submit offer in terms of contract specifications. (Note: Transmitted to each remote I/O)
C37	Document C, Volume 3B, Part 3.6, Page 3.6.6, General Volume 3B, C3.6.6: Section EPLC	Please advise if these signals shall be transmitted to each remote IO only (PLC6.H) or it shall be transmitted to both PLC6.G & PLC6.H.	Tenderers to submit offer in terms of contract specifications. (Note: Refer to addendum below) Tenderers to submit offer in terms of contract specifications. (Note: Transmitted to each remote I/O)
C38	Document C, Volume 3B, Part 3.6, Page 3.6.6, General Volume 3B, C3.6.6: Section EPLC	Please advise if these signals shall be transmitted to each remote IO only (PLC6.j) or it shall be transmitted to both PLC6.I & PLC6.J.	Tenderers to submit offer in terms of contract specifications. (Note: Transmitted to each remote I/O)
C39	Document C, Volume 4, Drawing 3089.00.00.GZC.03.D001 3089.30.01.GZC.03.D005	Does the weigh bridge office form part of the civil tender?	Tenderers to submit offer in terms of contract specifications. (Note: The weighbridge office will be constructed by others)
C40	Document C, Volume 4 Drawing set: General Arrangement: Site Layout (AAB)	Drawing set AAB is corrupted. Can an uncorrupted PDF set for AAB be issued?	Distributed with this Notice.
C41	Document C, Volume 4	Can the drawing sets: SQQ and SQR be provided?	Drawing set SQQ and SQR not issued with this Tender.
C42	Document C, Volume 4, Drawing 3089.10.01.AAA.13.A007	The Emergency WAS Storage Tanks and WAS recycle Pump Station is indicated on the flow diagram. However, no drawings or layouts can be found for these two sections. Can these be provided?	Note: These are existing structures that will be repurposed as specified. Drawings distributed with this Notice.
C43	Document C, Volume 4, Drawing 3089.10.01.AAA.13.A007	The flow diagram Notes state that the current Digesters will be refurbished to form the WAS holding tanks. However, the drawing sets, and layout drawings, indicate otherwise. It is, however, in the SoQ. Is it still going to be included in the design?	Note: These are existing structures that will be repurposed as specified. Drawings distributed with this Notice.
C44	Document C, Volume 4	Can the drawing for the service water pump station that forms part of the UF stream be provided?	Refer to drawing 3089.00.00.WPD.14.U001.
C45	Document C, Volume 4	Can the following drawings be provided? - '24 MBR Blower room - '24 MBR mechanical room(s) - '24 Poly dosing and storage room - '24 Dewatering poly make up and dosing building - '24 Management Building	'24 Management Building distributed with Notice 3. All other drawings requested have already been issued with the original Tender Documentation. Confirm detail with main mechanical contractor.

Item	Reference	Question/Clarification	Response
		- '24 MCC substation No.5	
C46	Document C, Volume 4	Can the general site layout drawing be provided in CAD format?	CAD drawings will not be issued.
C47	Document A, Volume 2, General	Can the updated SoQ excel files be issued with amended schedules?	Distributed with this Notice.
Note: DMS Detailed Mechanical Specifications (Part C3.6.1) DES Detailed Electrical Specifications (Part C3.6.6)			

ADDENDUM NO. 4
(Pages 24)

TENDER NO: 146Q/2021/22

DESIGN – BUILD OF MECHANICAL AND ELECTRICAL WORKS FOR THE UPGRADE AND EXPANSION OF POTSDAM WASTEWATER TREATMENT PLANT

BOX NUMBER: 121

CLOSING DATE: 28 March 2022

REVISED CLOSING DATE: 29 APRIL 2022 (Refer to addendum hereafter)

Your attention is specifically drawn to the tender document for the following clarifications and amendments which are to be incorporated in the tender document for the abovementioned tender in terms of Clause C.3.2 of Part T1.2 of the Standard Conditions of Tender and you will be deemed to have made any allowance necessary to provide for these amendments in your tender offer.

Kindly be advised that tenderers must complete Schedule 24, page 80 in Part T2.2 of Volume 2 (DOCUMENT B) of the Contract Document.

VOLUME 1: TENDERING PROCEDURES
Page I GENERAL TENDERING PROCEDURES

The closing date in the middle of the page is hereby amended to read:

“CLOSING DATE **29 APRIL 2022**”

Strike through and replace page i (R1) with attached page i (R2).

VOLUME 1: TENDERING PROCEDURES
Part T1.1 Tender Notice and Invitation to Tender
Page 2

The closing date in the 4th paragraph from the bottom is hereby amended to read:

“The closing time for the receipt of tenders is 10h00 on **29 April 2022**”

Strike through and replace page 2 (R) with attached page 2 (R1).

DOCUMENT A
VOLUME 1: TENDERING PROCEDURES
PART T1.2: TENDER DATA
Page 9
Sub-clause C2.1.4.3.3

Replace the first paragraph after sub-clause C.2.1.4.3.3.i with the following:

Tenderers will be allocated a functionality score in accordance with Table 2, to rate their expertise and experience in work for this Contract. The total points allocated in terms of Table 2 will in turn be pro-rated to a score out of 55, to carry through to the total allowed for tenderer's expertise and experience in Table 1. In order to receive a score for each category, the tender offer must provide the information required in terms of Schedule 9: work experience of tenderer, in the format specified. To allow for the time value of money, project construction values must be escalated at 4% per annum from the year of completion, compounded annually, until **the Tender Closing Date.**”

Replace the reference in the sub-clause C.2.1.4.3.3.i Table 2's Year of Commissioning column with the following:

Item No.	Project/ component of work description*®	Points per project			Maximum Points per category
		Year of Commissioning	Scoring Criteria%#	Point allocation	
1	Construction Projects by the tendering entity				

Item No.	Project/ component of work description* [@]	Points per project			Maximum Points per category
		Year of Commissioning	Scoring Criteria ^{%#}	Point allocation	
1.1	Construction (mechanical works) of wastewater treatment plants of which the scope of work included the provision of new equipment for the build, upgrade or expansion of a treatment facility with an average dry weather flow capacity of ≥ 20 Ml/d based on FIDIC design – build or equivalent contract. Points will only be awarded for construction activities which included the provision of more than one unit process.	2000 to Tender Closing Date	RP ≤ 2	0	15
			$2 < RP \leq 4$	10	
			RP > 4	15	
1.2	Construction (electrical works) of wastewater treatment plants of which the scope of work included the provision of new equipment for the build, upgrade or expansion of a treatment facility with an average dry weather flow capacity of ≥ 20 Ml/d based on FIDIC design – build or equivalent contract. Points will only be awarded for construction activities which included the provision of more than one unit process.	2000 to Tender Closing Date	RP ≤ 2	0	15
			$2 < RP \leq 4$	10	
			RP > 4	15	

*Note Table continues further. Refer to subsequent replacement pages for additional specifications.

Replace the footnote in the sub-clause C.2.1.4.3.3.i Table 2 * with the following:

“* To score points as the Responsible Contractor the relevant successful commissioning shall be confirmed by submission of a Completion Certificate (as per clause 11.9 of FIDIC Yellow or equivalent version thereof where other General Conditions of Contract were utilised) which has been signed by the relevant Employer. To score points as a supplier, a reference list with contactable details of the Employer or Engineer who was involved with the Project has to be provided. These references shall be confirmed during the tender evaluation stage.”

Strike through and replace pages 9 R to 13 R1 with attached pages 9 (R2) to 13 (R2).

DOCUMENT A
VOLUME 1: TENDERING PROCEDURES
PART T1.2: TENDER DATA
Page 15
Sub-clause C2.1.4.3.3

Replace the footnote in the sub-clause C.2.1.4.3.3.ii Table 3 § with the following:

§ Relevant experience refers to period post the basic degree listed and the years during which the Key Personnel fulfilled the role and responsibility stipulated in the table above.

Strike through and replace pages 15 with attached page 15 (R).

DOCUMENT A
VOLUME 2: RETURNABLE DOCUMENTS
Part C2.2 Schedule of Quantities
Pages E14-1 to 15
SCHEDULE NO E.14: Multicore Cables & Earth Wires

Replace and add accordingly these specific payment items associated with the Multicore Cables & Earth Wires as per the table below:

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.14.2.1.1	EMCA 18.2(a)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu-E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	m m	300 200		
E.14.2.2.1	EMCA 18.2(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu-E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	Each Each	4 4		
E.14.2.2.37	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends. SABS Approved Cast Resin.	Each	16		
E.14.2.2.38	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends.SABS Approved Cast Resin.	Each	4		
E.14.2.2.39	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking joints.SABS Approved Cast Resin.	Each	34		
E.14.3.1.1	EMCA 18.3(a)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu-E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	m m	300 200		

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.14.3.2.37	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends. SABS Approved Cast Resin	Each	16		
E.14.3.2.38	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends. SABS Approved Cast Resin.	Each	4		
E.14.3.2.39	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking joints.SABS Approved Cast Resin.	Each	34		

Strike through and replace page E14-1 to E14-15 with E14-1(R) to E14-16(R).

DOCUMENT A
VOLUME 2: RETURNABLE DOCUMENTS
Part C2.2 Schedule of Quantities
Pages E20-1 to 7
SCHEDULE NO. E.20: Programmable & Logic Controllers

Replace the payment items associated with the Programmable & Logic Controllers as per the table below:

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.20.2.32	EPLC 26.2(a)	Supply and delivery to site complete PLC and peripheral equipment installed in or other specified enclosures, all as specified [refer to PSEPLC-6.L]	Each	1		
E.20.2.33	EPLC 26.2(b)	Supply and delivery to site complete UPS as specified [refer to PSEPLC-6.L]	Each	1		
E.20.2.34	EPLC 26.2(c)	Supply and delivery to site complete HMI as specified [refer to PSEPLC-6.L]	Each	1		
E.20.3.32	EPLC 26.3(a)	Site installation of a complete PLC and peripheral equipment installed in or other specified enclosures, all as specified [refer to PSEPLC-6.L]	Each	1		
E.20.3.33	EPLC 26.3(b)	Site installation of a complete UPS as specified [refer to PSEPLC-6.L]	Each	1		
E.20.3.34	EPLC 26.3(c)	Site installation of a complete HMI as specified [refer to PSEPLC-6.L]	Each	1		
E.20.4.31	EPLC 26.4(a)	Commissioning of a complete Wireless Enclosure and peripheral equipment installed in or other specified enclosures, all as specified [refer to PSEPLC-6.J, K]	Each	100		
E.20.4.32	EPLC 26.4(a)	Commissioning of a complete PLC and peripheral equipment installed in or other specified enclosures, all as specified [refer to PSEPLC-6.K, L]	Each	1		
E.20.4.33	EPLC 26.4(b)	Commissioning of a complete UPS as specified [refer to PSEPLC-6.K, L]	Each	1		
E.20.4.34	EPLC 26.4(b)	Commissioning of a complete HMI as specified [refer to PSEPLC-6.K, L]	Each	1		

Strike through and replace page E20-1 to E20-7 with E20-1(R) to E20-8(R).

DOCUMENT A
VOLUME 2: RETURNABLE DOCUMENTS
Part C2.2 Schedule of Quantities
Pages E24-1 to 9
SCHEDULE NO.E.24: Earthing and Lightning Protection

Replace the quantities associated with the Earthing and Lightning Protection as per the table below:

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.24.2.2	EELP 22.2	Earth rods - 4500mm long driven into ground with top ends up to 500mm below ground level.	Each	50 826		
E.24.2.4	EELP 22.2	Earth rods - 12500mm long driven into ground with top ends up to 500mm below ground level. Holes predrilled as mentioned below.	Each	776 50		
E.24.3.2	EELP 22.3	Earth rods - 4500mm long driven into ground with top ends up to 500mm below ground level.	Each	50 826		
E.24.3.4	EELP 22.3	Earth rods - 12500mm long driven into ground with top ends up to 500mm below ground level. Holes predrilled as mentioned below.	Each	776 50		

Strike through and replace page E24-1 to E24-18 with E24-1(R) to E24-1(R) to E24-9(R).

DOCUMENT A
VOLUME 2: RETURNABLE DOCUMENTS
Part C2.2 Schedule of Quantities
Pages E26-1 to 19
SCHEDULE NO.E.26: Multicore Cables & Earth Wires

Replace and add accordingly these specific payment items associated with the Multicore Cables & Earth Wires as per the table below:

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.26.2.1.1	EMCA 18.2(a)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu-E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	m	420		
E.26.2.1.2	EMCA 18.2(a)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu-E-Coat epoxy insulation shall be used. One busbar for each transformer.	m	560		

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
		3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin				
E.26.2.2.1	EMCA 18.2(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	Each	8		
E.26.2.2.2	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu E-Coat epoxy insulation shall be used. One busbar for each transformer. 3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	Each	16		
E.26.2.37	EMCA 18.2(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends.SABS Approved Cast Resin	Each	30		
E.26.2.38	EMCA 18.2(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends.SABS Approved Cast Resin.	Each	16		
E.26.2.39	EMCA 18.2(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking joints.SABS Approved Cast Resin.	Each	200		
E.26.2.40	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends.SABS Approved Cast Resin	Each	38		

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
E.26.2.41	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends.SABS Approved Cast Resin	Each	16		
E.26.2.42	EMCA 18.2(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking joints.SABS Approved Cast Resin.	Each	250		
E.26.3.1.1	EMCA 18.3(a)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu E-Coat epoxy insulation shall be used. One busbar for each transformer. 4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	m	420		
E.26.3.1.2	EMCA 18.3(a)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP65 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. Busbars shall conform to the latest IEC 61439 (1&6) IS 8623 (1-2) and shall be certified. Thermoset blu E-Coat epoxy insulation shall be used. One busbar for each transformer. 3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking from each transformer to each incomer. SABS Approved Cast Resin	m	560		
E.26.3.2.37	EMCA 18.3(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends.SABS Approved Cast Resin.	Each	30		
E.26.3.2.38	EMCA 18.3(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends.SABS Approved Cast Resin.	Each	16		
E.26.3.2.39	EMCA 18.3(b)	4000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper	Each	200		

Item	Pay Ref	Description	Unit	Qty	Rate (R)	Amount (R)
		Busbar Trunking joints.SABS Approved Cast Resin.				
E.26.3.2.40	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking Bends.SABS Approved Cast Resin	Each	38		
E.26.3.2.41	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking MCC Ends.SABS Approved Cast Resin	Each	16		
E.26.3.2.42	EMCA 18.3(b)	3000Amp [Red Phase, Blue Phase, White Phase, Black Phase] and 50% internal earth [Green/Yellow Phase] IP54 enclosed in non-ventilated copper Busbar Trunking joints.SABS Approved Cast Resin.	Each	250		

Strike through and replace page E26-1 to E26-19with E26-1(R) to E26-21(R).

DOCUMENT A
VOLUME 2: RETURNABLE DOCUMENTS
Part C2.2 Schedule of Quantities
Pages E 27-1 to 5
SCHEDULE No.E.27: Security

Replace Schedule No.E.27: Security in its entirety with the new Schedule E.27 distributed with this addendum.

Strike through and replace pages E27-1(R) to E27-5(R) with E27-1(R1) to E27-6(R1).

DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 55
Returnable Schedule 22.2

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 55 to 56 with attached page 55 (R) to 56 (R).

DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 58
Returnable Schedule 22.3

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 58 to 59 with attached page 58 (R) to 59 (R).

DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 61
Returnable Schedule 22.4

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 61 to 62 with attached page 61 (R) to 62 (R).

DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 64
Returnable Schedule 22.5

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 64 to 65 with attached page 64 (R) to 65 (R).

**DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 67
Returnable Schedule 22.6**

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 67 to 68 with attached page 67 (R) to 68 (R).

**DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 70
Returnable Schedule 22.7**

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 70 to 71 with attached page 70 (R) to 71 (R).

**DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 73
Returnable Schedule 22.8**

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 73 to 74 with attached page 73 (R) to 74 (R).

**DOCUMENT B
VOLUME 2: RETURNABLE DOCUMENTS
PART T2.2: RETURNABLE SCHEDULES
Page 76
Returnable Schedule 22.9**

Replace second last paragraph under item 1.5 with the following:

"Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by **Nedbank** at close of business on the date of advertisement of the bid as required in paragraph 4.1 below."

Replace the first paragraph under item 3.1 with the following:

"If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by **Nedbank** at close of business on the date of advertisement of the bid."

Replace the last sentence under item 3.1 with the following:

"NB: Suppliers must submit proof of the **Nedbank** rate(s) of exchange used."

Strike through and replace pages 76 to 77 with attached page 76 (R) to 77 (R).

**DOCUMENT B
VOLUME 3: DRAFT CONTRACT
PART C1.2: CONTRACT DATA
Page 115
Sub-clause 13.8.2.2.b**

Replace the applicable formula for Electrical Plant and Materials under sub-clause 13.8.2.2.b with the following:

$$"A = a + b \frac{L_n}{L_o} + c \frac{E_n}{E_o} + d \frac{CR_n}{CR_o} + e \frac{C_n}{C_o} + f \frac{SS_n}{SS_o} - 1$$

- where A = Adjustment Factor rounded off to the sixth decimal place
 - a = 0.10 Fixed coefficient (non-adjustable portion)
 - b = 0.10
 - c = 0.30
 - d = **0.10**
 - e = 0.30
 - f = **0.10**
- Coefficients (sum of these coefficients shall be 0,90)

- L_n = Current labour index in Table C3
- L_o = Base labour index in Table C3
- E_n = Current electrical engineering materials index in Table G
- E_o = Base electrical engineering materials index in Table G
- CR_n = Current 3CR12 steel index in Table Q -1 (A)
- CR_o = Base 3CR12 steel index in Table Q -1 (A)
- C_n = Current copper rod index in Table N
- C_o = Base copper rod index in Table N

SSn	=	Current stainless steel index type 316 in Table Q-(A)
SSo	=	Base stainless steel index type 316 in Table Q-(A) "Current" indices are those applicable 42 days prior to date of claim, as stated in sub-paragraph (a) above"

Strike through and replace page 115 with attached page 115 (R).

DOCUMENT B
VOLUME 3: DRAFT CONTRACT
PART C1.2: CONTRACT DATA
Page 116
Sub-clause 13.8.3

Replace the paragraph under sub-clause 13.8.3.1 with the following:

"If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is required, such adjustment shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources** and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled "**Price Basis for Imported Resources** (column (F)) shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate quoted by **Employer's** main banker, NEDBANK, on the Base Date (seven calendar days before tender closing date **or last preceding working day**) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E))."

Strike through and replace page 116(R) with attached page 116 (R1).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3A Part C3.6.1
Section 20.4

Add the following to the table at the top of page C3.6.1-79:

"

Design Ambient Temperature	35°C
Design relative humidity	90

"

Strike through and replace page C3.6.1-79 with attached page C3.6.1-79 (R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3A Part C3.6.1
Section 21.3

Add the following to the table at the top of page C3.6.1-90:

"

Design Ambient Temperature	35°C
Design relative humidity	90

"

Strike through and replace page C3.6.1-90 with attached page C3.6.1-90 (R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3A Part C3.6.1
Section 20.4

Replace the third paragraph under Section 20.4.4 Air diffusers with the following:

"The average bubble size produced by the membrane shall be smaller than **2 mm** in diameter."

Replace the second last paragraph under Section 20.4.4 Air diffusers with the following:

"At the designed airflow the maximum head loss in a diffuser which requires cleaning shall be less than 6 kPa while the head loss through a clean diffuser shall not exceed **4 kPa**."

Replace the third paragraph from the top of page C3.6.1-83 with the following:

"Membrane shall collapse and seal when aeration system air is turned off. Membrane shall collapse onto base when air is not being diffused. Design should permit air to exit through the entire periphery of the membrane. Membrane shall be designed to resist clogging, and should have a minimum of **5 200** perforations. Membranes shall be at least 70% hydrophilic."

Replace the list of minimum membrane characteristic near the middle of page C3.6.1-83 with the following:

Tensile strength	12.4 Mpa
Tear strength	> 5.0 N/mm
Ozone resistance	Pass
UV resistance	Pass
Durometer	60
Ultimate elongation	600%
Friction coefficient	0.09

Replace the list of minimum diffuser body characteristic near the middle of page C3.6.1-83 with the following:

Specific Gravity	0.9 to 1.05
Water absorption	0.02%
Tensile Strength	34.475 MPa
Maximum Temperature	100°C"

Strike through and replace page C3.6.1-82 to C3.6.1-83 with attached page C3.6.1-82 (R). to C3.6.1-83 (R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3A Part C3.6.1
Section 43

Replace the listed aperture of screen in the middle of page C3.6.1-253 with the following:

"Max allowable aperture of screen: 100 µm (wire mesh)"

Replace the third paragraph after Section 43.4 in the middle of page C3.6.1-254 with the following:

"Each filter disk is constructed from EN 1.4401 stainless steel. The stainless-steel woven mesh shall provide for effective openings **of no larger than 100 microns**."

Strike through and replace page C3.6.1-253 (R) to C3.6.1-254 (R) with attached page C3.6.1-253 (R1) to C3.6.1-254 (R1).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3A Part C3.6.1
Section 45

Replace the fifth paragraph from the top of C3.6.1-267 with the following:

"The membrane backwash and cleaning operation processes **may** utilise air scouring, permeate backflow and a membrane chemical storage and dosing system. Permeate for the cleaning processes **may** use air pressure to achieve the required back flow. ~~Any design adopting a separate backwash water storage and/or supply shall not be accepted.~~—The membrane chemical storage and dosing system shall prepare, dilute, and dose cleaning chemical for the operation process via a dedicated system utilising potable or treated wastewater."

Replace the second paragraph under section heading 45.4: '24 Ultra filtration backwash pump station on C3.6.1-267 with the following:

"Backwash **may** be drawn from the '24 Pressurised UF Feed Pump Station sump and be pumped through an ultra-filtration unit (skid) to washout out accumulated solids from the respective modules (refer to previous section for details on typical operation). **Alternative backwash draw offs will be acceptable subject to the UF suppliers' requirements.** This pump duty is subject to the process and control requirements associated with the selected equipment and the Contractor shall ensure that sufficient allowance is made in his/her tender offer to ensure that the pumps function as per the overall PUFs process requirements."

Strike through and replace page C3.6.1-267 with attached page C3.6.1-267 (R).

**DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-24
Section PSEMVS-25 Batteries and Charger Tripping Units [BTU]**

Add the new line in the specification for Batteries and Charger Tripping Units [BTU]:

New 110V DC lithium iron batteries and chargers units shall be supplied under this contract for each substation and shall receive a supply of electricity from the mains electrical supply in the substation. The unit shall be suitably sized for each substation with atleast 30% additional spare capacity available for future upgrades.

The following monitoring functions must be available on the units:

- Battery status.
- Supply voltage
- Trip condition

Standby time for battery backup must be 12 hours.

Strike through and replace page C3.6.6-24 and C.3.6.6-25 with C3.6.6-24(R) and C3.6.6-25(R).

**DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-26
Section Medium Voltage Variable Frequency Drive [x6] Situated at MBR Re-use Pump Station**

Remove the specification requirement for the fault level as follow:

Medium Voltage Drive System with multi-pulse transformer and low voltage inverter cascade provides a sinusoidal sine wave at both input and output with low THD.

Supply: 70mm² 3C Cu PVC PILC PVC Table 18 cables plus a 70mm² Kwena copper cables from the Membrane Substation.

Colour: SANS code G29 or similar and approved

Fault Level: 25kA.

Strike through and replace page C3.6.6-26 with C3.6.6-26(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-65
Section PSEMCC -6.B Substation No.1 Four [X4] Variable Frequency Drives Tiers Situated At The '24 Head of Works
Motor Control Centre

Remove the following specification requirements:

~~**Fault Level:** 45kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-65 with C3.6.6-65(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-193
Section PSEMCC -6.F Substation No.4 - Eight [X8] Variable Frequency Drives Tiers Situated At The '24 Membrane
Reactor and UV Low Voltage Room

Remove the following specification requirements:

~~**Fault Level:** 70kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-193 with C3.6.6-193(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-198
Section PSEMCC-6.G Substation No.4 - Five [X5] Variable Frequency Drives Tier Complete Situated At The '24
Membrane Reactor and UV Low Voltage Room

Remove the following specification requirements:

~~**Fault Level:** 70kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-198 with C3.6.6-198(R).

DOCUMENT C

VOLUME 3: DRAFT CONTRACT

Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-203

Section PSEMCC-6.H Substation No.4 - Five [X5] Variable Frequency Drives Tier Complete Situated At The '24 Membrane Reactor and UV Low Voltage Room

Remove the following specification requirements:

~~**Fault Level:** 70kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-203 with C3.6.6-203(R).

DOCUMENT C

VOLUME 3: DRAFT CONTRACT

Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-208

Section PSEMCC-6.I Substation No.4 - Sixteen [X16] Variable Frequency Drives Tier Complete Situated At The '24 Membrane Reactor and UV Low Voltage Room

Remove the following specification requirements:

~~**Fault Level:** 70kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-208 with C3.6.6-208(R).

DOCUMENT C

VOLUME 3: DRAFT CONTRACT

Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-267

Section PSEMCC-6.L Substation No.5 - Six [X6] Variable Frequency Drives Tier Complete Situated At Substation No.5 [Maturation, Tertiary Treatment and Disinfection] Low Voltage Room

Remove the following specification requirements:

~~**Fault Level:** 70kA.~~

~~**Sectioning:** Multi section, Form 3b or Form 4 to SANS IEC 60439.~~

~~**Future:** 30% for future extensions space.~~

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-267 with C3.6.6-267(R).

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Page C3.6.6-272

Section PSEMCC-6.M Substation No.5 - Five [X5] Variable Frequency Drives Tiers Situated At The Ultra-Filtration Low Voltage Room

Remove the following specification requirements:

Fault Level: 70kA.

Sectioning: Multi section, Form 3b or Form 4 to SANS IEC 60439.

Future: 30% for future extensions space.

Add the following specification requirement:

Construction: Standalone Tiers

Strike through and replace page C3.6.6-272 with C3.6.6-272(R).

DOCUMENT C

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Volume 3B Part C3.6.6

Page C3.6.6-277

Section PSEMCC-6.N Combined Active Harmonic Filtering and Reactive Current Compensation Tier [Allowance of x35]

Remove the following specification requirements:

Fault Level: 45kA.

Sectioning: Multi section, Form 3b or Form 4 to SANS IEC 60439.

Strike through and replace page C3.6.6-277 with C3.6.6-277(R).

DOCUMENT C

VOLUME 3: DRAFT CONTRACT

Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-283

Section PSEPLC-6.A Substation No.1 [24 Head of Works] Motor Control Centre PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96-MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6-283 with C3.6.6-283(R).

Section PSEPLC-6.A Schedule of Supervisory and Control I/O's For Substation No.1 ['24 Head of Works] Motor Control Centre PLC

Remove the following I/O control reference in the middle of the page as follows:

DESCRIPTION	RTD IN	ANALOG IN	ANALOG OUT	24V DC IN	24V DC OUT	VOLT FREE OUT	NETWORK LINK		
							SCADA	HMI	PLANT
Raw Water Sewage No.1 – No.4 healthy				4			4	4	4
Raw Water Sewage No.1 – No.4 trip					4		4	4	4
Raw Water Sewage No.1 – No.4 run/stop				4	4		8	8	8
Raw Water Sewage No.1 – No.4 E-Stop				4			4	4	4
Raw Water Sewage No.1 – No.4 Manual / Auto / Off				12			12	12	12
Raw Water Sewage No.1 – No.4 DE bearings motor	4		4		3		9	9	9
Raw Water Sewage No.1 – No.4 NDE bearings motor	4		4		3		9	9	9
Raw Water Sewage No.1 – No.4 Winding temperatures motor	12		12		12		36	36	36
Raw Water Sewage No.1 – No.4 DE bearings	4		4		4		12	12	12
Raw Water Sewage No.1 – No.4 NDE bearings	4		4		4		12	12	12
Raw Water Sewage No.1 – No.4 Vibration sensor	4		4		4		12	12	12
Raw Water Sewage No.1 – No.4 Pressure	4		4		4		12	12	12
Raw Water Sewage No.1 – No.4 Speed Control / speed monitor		4	4				8	8	8
Raw Water Sewage Level		1			1		2	2	2
Raw Water Sewage No.1 – No.4 Flume Flow Meter No.1-No.3		3	3		3		9	9	9
Raw Water Sewage No.1-No.4 duty / standby control and speed control			4	4	4		12	12	12

Strike through and replace page C3.6.6-286 with C3.6.6-286 (R).

Section PSEPLC-6.C Substation No.2 Motor Control Centre ['24 Primary Sedimentation, Ultra-Fine Screens and '24 BNR Reactor] PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96-MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6-293 with C3.6.6-293(R).

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VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-301
Section PSEPLC-6.D Substation No.3 Motor Control Centre [Sludge Management] PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96 MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6-301 with C3.6.6-301(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-309
Section PSEPLC-6.E Substation No.4 Motor Control Centre [24 Membrane Reactor and UV] PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96 MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6-309 with C3.6.6-309(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-312
Section PSEPLC-6.E Schedule of Supervisory And Control I/O's For Substation No.4 Motor Control Centre [24 Membrane Reactor and UV] PLC

Remove the following supervisory and control I/O's items in the table as follow:

DESCRIPTION	RTD IN	ANALOG IN	ANALOG OUT	24V DC IN	24V DC OUT	VOLT FREE OUT	NETWORK LINK		
							SCADA	HMI	PLANT
Permeate Pump No.1 – No.16 healthy				16			16	16	16
Permeate Pump No.1 – No.16 trip					16		16	16	16
Permeate Pump No.1 – No.16 run/stop				16	16		32	32	32
Permeate Pump No.1 – No.16 E-Stop				16			16	16	16

*Note: Table adjustment continues up to page 316. Refer to replacement pages for further detail.

Strike through and replace page C3.6.6-312 to C3.6.6-316 with C3.6.6-312 (R) to C3.6.6-316 (R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6

Page C3.6.6-318
Section PSEPLC-6.F Substation No.4 [24 Membrane Reactor and UV] Membrane Module A & B Enclosure Remote I/O [x16]

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96 MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6- 318 with C3.6.6-318(R).

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VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6

Page C3.6.6-325
Section PSEPLC-6.G Substation No.4 Motor Control Centre [MBR Re-Use Pump Station] PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96 MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6- 325 with C3.6.6-325(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6

Page C3.6.6-326
Section PSEPLC-6.G Schedule Of Supervisory And Control I/O's For Substation No.4 Motor Control Centre [MBR Re-Use Pump Station] PLC

DESCRIPTION	RTD IN	ANALOG IN	ANALOG OUT	24V DC IN	24V DC OUT	VOLT FREE OUT	NETWORK LINK		
							SCADA	HMI	PLANT
MBR Re-Use Pump No.1 – No.6 healthy				6			6	6	6
MBR Re-Use Pump No.1 – No.6 trip					6		6	6	6
MBR Re-Use Pump No.1 – No.6 run/stop				6	6		12	12	12
MBR Re-Use Pump No.1 – No.6 E-Stop				6			6	6	6
MBR Re-Use Pump No.1 – No.6 Manual / Auto / Off				18			18	18	18

DESCRIPTION	RTD IN	ANALOG IN	ANALOG OUT	24V DC IN	24V DC OUT	VOLT FREE OUT	NETWORK LINK		
							SCADA	HMI	PLANT
MBR Re-Use Pump No.1 – No.6 DE bearings motor	6						6	6	6

*Note: Table adjustment continues up to page 327. Refer to replacement pages for further detail.

Strike through and replace page C3.6.6-326 to C3.6.6-327 with C3.6.6-326 (R) to C3.6.6-327 (R).

DOCUMENT C

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Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-334

Section PSEPLC-6.1 Substation No.5 Motor Control Centre [Maturation, Tertiary Treatment and Disinfection] PLC

Replace the specification for the Human Machine Interface VGA graphics with the following:

QTY	DESCRIPTION	IDENTIFICATION
1	Human machine interface advanced touchscreen panel HD pixels VGA- 19" 22" TFT 96 MB graphic Terminals" colour touch screen with sufficient flash memory, soft function and static function keys and Ethernet communication port. Software as may be required shall be provided:	HMI

Strike through and replace page C3.6.6-334 with C3.6.6-334(R).

DOCUMENT C

VOLUME 3: DRAFT CONTRACT

Part C3.6 ANNEXES

Volume 3B Part C3.6.6

Page C3.6.6-386

Section PSESCA-4-5 Operator Station

Add additional specification for the main server:

Qty	Description
All	Corporate business Server: Plus
All	Intel Xeon Silver 4110 Processor (11M Cache, 3.00 GHz, 8 cores): Plus
Kit [4 x 16GB]	Corsair 16GB DDR4 2666MHz Memory Module Kit: Plus
All	All housed inside 42U server case Server Tower: Plus
2	512GB SATA 3 2.5 Solid State Drive [Main Drives]: Plus
2	3TG SATA 3 Hard Drives for Raid Back-Up: Plus
1	Equal or similar to my cloud expert series EX4100 8TB Network Attached Storage (NAS)
All	Power supply suitable for the application: Plus
4	27" Inch Samsung LED Screens: Plus
4	65" Inch 4k equal or similar to LG LED TV's: Plus
All	H330 Integrated Raid Controller: Plus
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab: Plus
All	Dual 10/100/1000 Gigabit Ethernet: Plus
All	All cable work and accessories to complete the installation.
All	Graphic Cards required to remote display divert sections of the plant on all screens
All	42U 600mm(w) x 1000mm(d) x 2055mm(h) Cabinet with perforated front & back door which include all shelves, distribution, blanking panels, cable management, cage nuts and plinths which will complete the installation.
All	An uninterruptable power supply shall be supplied and installed under this Contract. The Contractor shall allow for an industrial type equal or similar to APC Modular unit in its own case /cabinet Lithium Ion type batteries for the entire security, SCADA, electric fence, CCTV, and access control system.

Qty	Description
	Alarm and other reports as may be required must be provided for and all alarm conditions shall be provided with a utility to view possible causes and remedies for the relevant alarm condition in a detail window.

Strike through and replace page C3.6.6-386 with C3.6.6-386(R).

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VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-394
Section PSESEC-2 SCOPE

Add the following to the scope specification for security and fencing:

- All Process will be covered with CCTV cameras. The Engineer has allowed for cameras for pricing purposes, which will be distributed when Contractor is appointed [Refer to Schedule of Quantities item 27.2.12 - 27.2.17].

Remove the following specification requirement for security and fencing:

- ~~UPS shall be allowed for under this contract to cover the entire system. 15kVA 3phase shall be allowed for the system~~

Strike through and replace page C3.6.6-394 with C3.6.6-394(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-395
Section PSESEC-6 Operator Station

Replace the content under Section PSESEC-6 with the following:

~~Latest Editions Windows Server package professional operating system software and latest edition complete Windows Office professional software shall be supplied with the server, UPS and Screens by others.~~

Qty	Description
All	Corporate business Server: Plus
All	Intel Xeon Silver 4110 Processor (12M Cache, 3.50 GHz, 8 cores): Plus
Kit [4 x 16GB]	Corsair 16GB DDR4 2666MHz Memory Module Kit: Plus
All	Server Tower Case: Plus
All	512GB SATA 3 2.5 Solid State Drive [Main Drives]: Plus
All	SATA 3 Hard Drives for Raid Back Up: Plus
All	Power supply suitable for the application: Plus
2	27" Inch equal or similar Samsung QLED Screens: Plus
4	65" Inch equal or similar to 4k Samsung QLED TV's: Plus
All	H330 Integrated Raid Controller: Plus
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab: Plus
All	Dual 10/100/1000 Gigabit Ethernet: Plus
All	All cable work and accessories to complete the installation.
All	42U 600mm(w) x 1000mm(d) x 2055mm(h) Cabinet with perforated front & back door which include all shelves, distribution, blanking panels, cable management, cage nuts and plinths which will complete the installation.
All	Separate modular Cabinet system for the UPS [see PSESEC-7]

The SCADA servers will be used and all additional hardware and cables shall be allowed for connection to the SCADA servers. Latest Editions Windows Server package professional operating system software and latest edition complete Windows Office professional software shall be supplied with the server, UPS and Screens by others.

Strike through and replace page C3.6.6-395 with C3.6.6-395(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.6
Page C3.6.6-396
Section PSESEC-7 UPS

Replace the content under Section PSESEC-7 with the following:

~~An uninterruptable power supply shall be supplied and installed under this Contract. The Contractor shall allow for a industrial type equal or similar to APC Modular unit in its own case /cabinet Lithium Ion type batteries 30kVA 3phase UPS for the entire security, electric fence, CCTV, and access control system.~~

~~Alarm and other reports as may be required must be provided for and all alarm conditions shall be provided with a utility to view possible causes and remedies for the relevant alarm condition in a detail window.~~

~~A security overview shall be provided.~~

~~The SCADA System shall be used. Latest Editions Windows Server package professional operating system software and latest edition complete Windows Office professional software shall be supplied with the server, UPS and Screens by others.~~

Strike through and replace page C3.6.6-396 with C3.6.6-396(R).

DOCUMENT C
VOLUME 3: DRAFT CONTRACT
Part C3.6 ANNEXES
Volume 3B Part C3.6.7
Page ESEC-1 to 51
Section ESEC – ELECTRICAL/ELECTRONIC: SECURITY & FENCING

Replace particular specification ESEC: *SECURITY & FENCING* in its entirety and replace with the new ESEC distributed with this addendum.

Strike through and replace pages ESEC-1 to ESEC-51 with ESEC-1(R) to ESEC-41(R).

DOCUMENT C
Volume 4: DRAWINGS

Add the following drawings to the Volume 4 which indicate details on the existing Emergency WAS Storage Tanks (Section 31 of DMS) and '24 WAS Recycle Pump Station (Section 33 of DMS):

- "
- 400361 CT 10Z BIOREACTOR UNITS 1 & 2: General Arrangement
 - 400361 CT 11Z BIOREACTOR UNITS 1 & 2: Detail
 - 400361 CT 30Z CONTROL ROOM/WASTE SLUDGE PUMPSTATION GENERAL ARRANGEMENT"

New drawings distributed with this Notice.

[End of addendum]

Thanking you

.....
On behalf of: Basil Chinasamy
Director: Supply Chain Management

ADDENDUM No. 4

ACKNOWLEDGEMENT OF RECEIPT FOR AND ON BEHALF OF THE TENDERER: TENDER No. 146Q/2021/22

At on this Day of 20.....

Signature:

Name of Signatory:
(In ink and capitals)

TENDERER:
(Name of firm in ink and capitals)
