

To To all tenderers
From Nonhlanhla Mafoko
Date 7 February 2022
Subject Addendum 4
Pages 76

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TENDER NO: TPT/2021/12/2/RFP

DESCRIPTION OF WORKS: FOR THE PROVISION OF OFFICES FOR TRANSNET PORT TERMINALS AT 202 ANTON LEMBEDE STREET, DURBAN FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED AS "TPT").

1. Bills of Quantities: Bidders are to complete and submit the revised Bills of Quantities (BOQ) that is attached on Addendum 4. Bidders should ignore the BOQ that was issued on the RFP and to submit the revised BOQ that is on Addendum 4.

2. Signage Drawing: Please find attached drawing that addresses Photoluminescent signs as per Item no. 8.1.63

3. T2.2-24 Supplier Integrity Pact – T2.2-24 was omitted and not include in the issued RFP. Bidders to please complete and include with it with their submission.

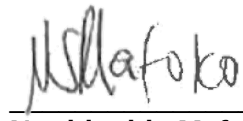
4. Local Content Plan: Bidders can ignore the plan and submit the annexures as requested

Attached for your attention is a copy of Addendum 1 dated 7 February 2022

Endorsement should be made on the tender that Addendum 4 dated 7 February 2022 has been received and taken into account in submitting your tender.

*Please acknowledge receipt of this Addendum before the closing date of tender.

Regards

A handwritten signature in black ink, appearing to read 'Nonhlanhla Mafoko'.

Nonhlanhla Mafoko
Sourcing Specialist

TRANSNET SOC LTD

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ADDENDUM 4

Date: 7 February 2022

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- 3. T2.2-24 Supplier Integrity Pact** – T2.2-24 was omitted and not include in the issued RFP. Bidders to please complete and include with it with their submission.
- 4. Local Content Plan:** Bidders can ignore the plan and submit the annexures as requested

The following information is furnished in addition to, in amplification and substitution of, matters contained in the tender documents issued in respect of the above-mentioned work.

TRANSNET SOC LTD

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ADDENDUM 4

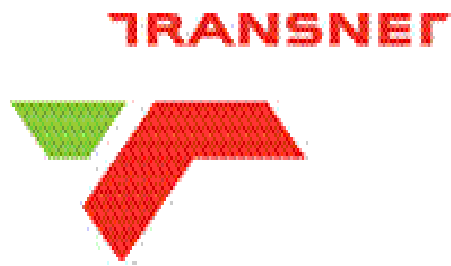
Date: 7 February 2022

This is to certify that we _____
have received Addendum 1 dated 07 February 2022

TENDERER

DATE: _____

WITNESSES:1. _____



**TPT HQ MOVE TO 202 ANTON
LEMBEDE STREET**

BILLS OF QUANTITIES

Prepared by:

TRANSNET PORT TERMINAL

JUNE 2021

Item	Payment Clause	Description	Unit	Qty	Rate	Amount
1	SANS 1200A PSA	SECTION 1: PRELIMINARIES AND GENERAL BILL NO.1 PREAMBLES enders are referred to the Measurement and Payment Clause (Clause 8) of the SANS 1200 A (General) document for full intent and meaning of each clause thereof, which are hereinafter referred to by the clause number				
1.1		<u>FIXED CHARGE ITEMS</u>				
1.1.1		Contractual requirements	Item	1		
		<u>Facilities for Contractor on site</u>				
1.1.2		Office and Storage Sheds	Item	1		
1.1.3		Workshops	Item	1		
1.1.4		Tools and Equipment	Item	1		
1.1.5		Access and Access Control	Item	1		
1.1.6		Removal of Site Establishment	Item	1		
1.1.7		Other Fixed Charge Obligation	Item	1		
		<u>TIME RELATED ITEMS</u>				
1.1.8		Contractual requirements	Item	1		
		<u>Operation and maintenance of facilities on sites for duration of construction except where stated</u>				
1.1.9		Facilities for Contractor				
1.1.10		Office and Storage Sheds	Item	1		
1.1.11		Workshops	Item	1		
1.1.12		Tools and Equipment	Item	1		
1.1.13		Access and Access Control	Item	1		
1.1.14		Supervision	Item	1		
1.1.15		Company and Head Office overheads	Item	1		
		<u>Other time related obligations</u>				
1.1.16		Environmental compliance	Item	1		
1.1.17		Health and Safety compliance	Item	1		
1.1.18		Quality compliance	Item	1		
1.1.19		Items in terms of the Industrial Relations policy, and Employment conditions for tender purposes	Item	1		
1.1.20		Contractor costs to comply with regulations of a National Pandemic such as COVID-19	Item	1		



Item	Payment Clause	Discription	Page	Amount
		<u>SECTION SUMMARY</u> Page Total brought forward	1	
		TOTAL CARRIED FORWARD TO FINAL SUMMARY		R -

Item	Payment Clause	Discription	Unit	Qty	Rate	Amount
2		CIVILS WORKS				
2.1		BILL NO. 2				
		Ground floor, 2nd, 3rd, 4th, 5th and 9th floor				
		Refer drawing No: 1-000-A-LA-0001-01 & 1-000-A-LA-0003-01 & 1-000-A-LA-0005-01				
		REMOVAL OF EXISTING WORKS				
		<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:</u>				
2.1.1		600mmx600mm Tiles to floors	m ²	428		
		<u>Taking down and removing, floors, paneling, ceiling, partitions, etc.</u>				
2.1.2		Drywall partitioning 3,23m high including doors, ironmongery, glazed borrowed lights, etc.	m	8		
2.1.3		Gypsum plasterboard suspended ceilings including suspension grid, hangers, etc.	m ²	430		
		<u>Taking out and removing glass and mirrors</u>				
2.1.4		Glass from steel double door including cleaning out rebates and preparing for new glass	No	2		
2.1.5		Glass and Metal frame including cleaning out rebates and preparing for new glass	m ²	3		
		GROUND FLOOR ABLUTIONS				
		<u>Breaking down and removing brickwork etc.</u>				
2.1.6		Half brick wall	m ²	54		
		<u>Taking out and removing doors, windows, etc from brickwork to be demolished.</u>				
2.1.7		Timber single door and frame 850mm x 2050mm high	no.	4		
2.1.8		Vitreous china wash hand basin	no.	4		
2.1.9		Vitreous china WC pan with cistern	no.	2		
2.1.10		Vitreous china wall hung urinal with flush valve	no.	2		
		<u>Taking down and removing roofs, floors, paneling, ceiling, partitions, etc.</u>				
2.1.11		Gypsum plasterboard suspended ceilings including suspension grid, hangers, etc.	m ²	49		
2.2		2nd FLOOR				
		<u>Taking down and removing roofs, floors, paneling, ceiling, partitions, etc.</u>				
2.2.1		Drywall partitioning 3,23m high including doors, ironmongery, glazed borrowed lights, etc.	m	235		
2.2.2		Existing wallpaper 2800mm high	m ²	1450		
		<u>Taking out and removing glass and mirrors</u>				
2.2.3		Glass and Metal door including cleaning out rebates and preparing for new glass	No	1		
2.2.4		Glass and Metal frame including cleaning out rebates and preparing for new glass	m ²	5		
		<u>Taking up and removing vinyl floor coverings, carpeting, etc:</u>				
2.2.5		Rubber floor covering including preparation screed for new floor covering	m ²	12		
		<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:</u>				
2.2.6		600mmx600mm Tiles to floors	m ²	23		
TOTAL CARRIED FORWARD TO FINAL SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
CIVILS WORKS						
2.3		3rd Floor Taking out and removing doors, windows, etc from brickwork to be demolished				
2.3.1		Drywall partitioning 3.23 m high including doors, ironmongery, glazed borrowed lights etc.	m	25		
		Taking out and removing doors, windows, etc from brickwork to be demolished				
2.3.2		Timber door 850mm x 2050mm high	No	1		
		Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:				
2.3.3		500mmx500mm Tiles to floors	m ²	63		
4th FLOOR						
		Taking down and removing roofs, floors, paneling, ceiling, partitions, etc.				
2.4.1		Drywall partitioning 3,23m high including doors, ironmongery, glazed borrowed lights, etc.	m	7		
5th FLOOR						
		Taking down and removing roofs, floors, paneling, ceiling, partitions, etc.				
2.5.1		Drywall partitioning 3,23m high including doors, ironmongery, glazed borrowed lights, etc.	m	24		
2.5.2		Gypsum plasterboard suspended ceilings including suspension grid, hangers, etc.	m ²	153		
		Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:				
2.5.3		500mmx500mm Tiles to floors	m ²	86		
		Taking out and removing sundry joinery work:				
2.5.4		Timber counter 1400x 900 mm high	No	1		
		Taking out and removing sundry metal work:				
2.5.5		power poles	No	2		
9th FLOOR						
		Taking out and removing sundry metal work:				
2.6.1		Steel gate 11000 mm long including cleaning out rebates	No	1		
		Taking out and removing doors, windows, etc from brickwork to be demolished				
2.6.2		Half brickwall	m ²	52		
		Taking out and removing sundry joinery work:				
2.6.3		Timber counter 1400x 900 mm high	No	1		
		Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:				
2.6.4		500mmx500mm Tiles to floors	m ²	132		
BUILDING UP OPENINGS						
		Brickwork in NFP bricks in class II mortar in building up:				
3RD FLOOR						
2.7.1		Half brick walls	m ²	2		
PREPARATORY WORK TO EXISTING SURFACES						
		All floors				
2.7.2		Making good defects in existing screeded floors as per architect spec.	m ²	715		
MAKING GOOD OF FINISHES ETC						
		Sundries				
2.7.1		Cutting toothings and bonding new brickwork to existing.	m	6		
2.7.2		Faces of walls where half brick walls removed.	m	6		
2.7.3		Floors where half brick walls removed.	m	24		
TOTAL CARRIED FORWARD TO FINAL SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
2.8		<u>3RD FLOOR</u> <u>MAKING GOOD OF FINISHES ETC</u>				
2.8.1		Floors where 1 brick walls removed. <u>Making good internal cement plaster:</u>	m	1		
2.8.2		Walls where one brick walls was removed	m	1		
2.8.3		Walls where half brick walls was removed Sundries <u>Making good screed</u>	m	1		
2.8.4		Floors where partitions removed	m	273		
2.8.5		Floors where Counter top removed	m	3		
2.8.6		Floors where cupboard removed <u>OPENINGS THROUGH EXISTING WALLS ETC</u> Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making good plaster on both sides and into reveals and with screed finish to thresholds (making good paintwork elsewhere): <u>3RD FLOOR</u>				
2.8.7		Opening for door with timber frame 850 x 2050mm high overall through half brick wall.	no.	2		
2.9		<u>4RD FLOOR</u>				
2.9.1		Opening for door with timber frame 850 x 2050mm high overall through half brick wall.	no.	1		
2.9.2		Opening for door with timber frame 850 x 2050mm high overall through half brick wall. <u>Carting Away</u>	no.	1		
2.9.3		Surplus material from demolished walls and partitions to an approved dumping site to be located by the contractor	m3	100		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
3		<u>CIVILS WORKS</u> <u>BILL NO.3</u> <u>Ground Floor Ablutions & 4th Floor kitchen</u> <u>Refer drawing No: 1-001-A-LA-0006-01</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar:</u> 3.1.1 230mm One brick wall m² 40 3.1.2 Half brick walls. m² 86 <u>Galvanised hoop iron cramps, ties, etc:</u> 3.1.3 30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork. no. 283 <u>Prestressed fabricated concrete lintels including necessary temporary supports</u> 3.1.4 110 x 75mm Lintels in lengths not exceeding 3m m 4 <u>SKIRTINGS</u> <u>GROUND FLOOR Canteen</u> 3.1.5 100mm floor tile cut wide strips m 44 3.2 <u>CEILINGS ETC</u> <u>SUSPENDEED CEILINGS</u> <u>Proprietary suspended ceilings:</u> <u>Electrical light fittings, diffusers, panels, etc generally are lay in units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required</u> <u>Pre painted AMF Fine stratos micro ceiling tiles 600x600x15mm equal or similar approved with square edge laid on econogrid prepainted white exposed tee grid system including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS strap angrers at 1200mm centres</u> 3.2.1 Ceilings suspended exceeding 2m and not exceeding 3m below concrete soffits.(boardrooms) m² 310 3.2.2 Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits.(canteen) m² 116 3.2.3 Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits.(ablution) m² 49 3.2.4 Ceiling suspended not exceeding 1m below concrete soffits (5th floor) m² 153 3.2.5 Ceiling suspended not exceeding 1m below concrete soffits (9th floor) m² 153 3.2.6 Extra over ceiling for opening for 250mm diameter downlighter. no 60 3.2.7 Extra over ceiling for opening for 600 x 600 mm light fitting no 60 3.2.8 Extra over ceiling for opening for ventilation/airconditioning diffuser. no 40 3.2.9 Horizontal bulk heads suspended exceeding 2m and not exceeding 3m below concrete soffits m² 310 3.2.10 Horizontal bulk heads suspended exceeding 1m and not exceeding 2m below concrete soffits m² 116 3.2.11 Horizontal bulk heads suspended not exceeding 1m below concrete soffits m² 49				
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		CIVILS WORKS				
		SUSPENDED CEILINGS				
3.2.12		Ceiling suspended exceeding 2m and not exceeding 3m below steel purlins	m ²	310		
3.2.13		Ceiling suspended exceeding 1m and not exceeding 2m below steel purlins	m ²	116		
3.2.14		Ceiling suspended not exceeding 1m below steel purlins at	m ²	49		
3.2.15		Suspended vertical bulk heads	m ²	280		
3.2.16		Sloping ceiling suspended exceeding 2m and not exceeding 3m below concrete soffits	m ²	310		
3.2.17		Sloping ceiling suspended exceeding 1m and not exceeding 2m below concrete soffits	m ²	130		
3.2.18		Sloping ceiling suspended not exceeding 1m below concrete soffits	m ²	49		
3.3		INSULATION				
3.3.1		100mm rockwool Acoustic and Thermal insulation or similar approved closely fitted and laid on top of steel purlins	m ²	426		
3.4		PARTITIONS ETC.				
		Equal or Similar Approved System Jumbo Dry wall Partition: <u>System Jumbo Drywall 51/30' partitioning shall comprise steel studding formed of 51mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, corners etc, and covered as described with 12mm thick jumbo plasterboards in single lengths to suit height, butt and flushed over with joints taped over and flushed with jointing compound prepared for painting.</u>				
		<u>Prices shall include for 75 mm powder coated aluminium skirting both sides, 3 Tier power skirting. Prices for forming openings shall include for additional framing and trimming boarding around openings.</u>				
		<u>System Jumbo drywall' or similar approved steel stud partitioning with 12,5mm Jumbo plaster boards on both sides:</u>				
		<u>2nd Floor, 4th floor and 9th floor</u>				
3.4.1		System Jumbo Drywall Partitioning 2,64m high or similar approved with bottom track plugged and top track fixed to suspended ceiling tees including aluminium shadowline bead at junction of partition and ceiling.	m	178		
		<u>2nd, 5th and 9th Floor</u>				
3.4.2		System Jumbo drywall Partitioning 2,05m high or similar approved with bottom track plugged and top track fixed to suspended ceiling tees including aluminium shadowline bead at junction of partition and ceiling.	m	3		
		<u>Ground floor</u>				
3.4.3		System Jumbo drywall Partitioning 2,1m high or similar approved with bottom track plugged and top track fixed to suspended ceiling tees including aluminium shadowline bead at junction of partition and ceiling.	m	13		
3.4.4		Extra over partition 2,64m high for vertical abutment.	no.	30		
3.4.5		Extra over partition 2,64m high for T-intersection.	no.	2		
3.4.6		Extra over partition 2,625m high for corner.	no.	3		
		INSULATION				
3.4.7		100mm Rockwool Acoustic and Thermal Insulation blanket or similar approved in drywall cavity	m ²	605		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
4		CIVILS WORKS GROUND FLOOR Equal or similar Approved system Jumbo Firewall 63/120/556 with overall thickness of 124mm, with 63x35mm Jumbo studs at 600mm centres friction fitted into head track and floor track and clad on both sides with a double layer of 15mm thick fire resistant jumbo plasterboard fixed at 220mm centres using 25mm Jumbo screws on the base layer and 42mm Jumbo screws on the face layer, all plasterboard joints must overlap, all exterior joints to be covered with jumbo tape and finished with 2 layers of Jumbo jointing plaster applied and lightly sanded down, leaving wall surface prepared for painting, all in accordance with suppliers recommendations, a 14kg/m3 density insulation to be installed in the cavity. System Jumbo steel stud partition with Fire resistant jumbo plasterboard.				
4.1.1		System jumbo firewall Partitions 2.9 m high with bottom track plugged and top track fixed to underside of slab	m	23		
4.1.2		System jumbo firewall Partitions 3.94m high with bottom track plugged and top track fixed to underside of slab	m	14		
4.1.3		System jumbo firewall Partitions 3.64m high with bottom track plugged and top track fixed to underside of beam	m	5		
4.1.4		System jumbo firewall Partition 5.42m high with bottom track plugged and top track fixed to underside of slab	m	20		
4.1.5		Equal or Similar approved bautech GF serene 50 Demountableand Relocable Acoustic Partitioning, with a 45 DB Acoustic Rating with bottom track plugged and top track fixed to suspended ceiling tees ALUGLASS bautech GF serene 50 Demountableand Relocable Acoustic Partitions 2.9 m high with bottom track plugged and top track fixed to suspended ceiling tees or similar approved	m	3.55		
4.1.6		Equal or similar approved bautech GF serene 50 Demountableand Relocable Acoustic Partitions 2.9 m high with bottom track plugged and top track fixed to suspended ceiling tees	m	5.62		
4.1.7		Equal or similar approved bautech GF serene 50 Demountableand Relocable Acoustic Partitions 2.9 m high with bottom track plugged and top track fixed to suspended ceiling tees	m	2.30		
4.1.8		Equal or similar approved bautech GF serene 50 Demountableand Relocable Acoustic Partitions 2.9 m high with bottom track plugged and top track fixed to suspended ceiling tees	m	2.30		
		DOORS				
4.1.9		Extra over drywall partition for 44mm solid Timber door 900 x 2125mm high finished with 1 coat dulux wood primer and 3 coats dulux pearl Glo water based finish or similar approved. Paint colour dark grey	no.	11		
4.1.10		Extra over Acoustic partition or similar approved for Varikust VK62 single 900mm x 2400mm high acoustic door in a glass with 900mm wide x 500mm fixed Glass panel above door, finished with intergrated GF serene system, all with a 45 DB Acoustic rating. A horizontal 1200mm high sandblasted decorative treatment must be added to all Glass	no.	7		
4.1.11		Extra over Equal or similar approved Nuklip heavy duty aluminium shopfront system or similar 900 x 2125 door, in a 6.38mm laminated safety glass, laminate to be sand blasted, finished with ANP 3055 Matt Charcoal powercoated aluminium		35		
4.1.12		Extra over equal or similar approved Nuklip heavy duty aluminium shopfront system or similar 750 x 2125 door, in a 6.38mm laminated safety glass, laminate to be sand blasted, finished with ANP 3055 Matt Charcoal powercoated aluminium		1		
4.1.13		Extra over Equal or approved Nuklip heavy duty aluminium shopfront system or similar 1700 x 2125 door, in a 6.38mm laminated safety glass, laminate to be sand blasted, finished with ANP 3055 Matt Charcoal powercoated aluminium		3		
4.1.14		Extra over equal or similar approved Nuklip heavy duty aluminium shopfront system or similar 900 x 1000 door, in a 6.38mm laminated safety glass, laminate to be sand blasted, finished with ANP 3055 Matt Charcoal powercoated aluminium		2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
5		<u>CIVILS WORKS</u>				
		<u>BILL NO. 4</u>				
		<u>FLOOR COVERINGS</u>				
		<u>Mezzanizne, 2nd, 3rd, 4th & 5th floor</u>				
		<u>500 x 500mm Berber point 920 charcoal carpet tiles equal or similar approved</u>				
		On floors	m²	787		
		<u>Ground Floor toilets & Canteen& Boardrooms</u>				
		<u>600x600mm Full body first grade Porcelain tiles or similar approved finished with aluminium edge trim to all egdes,pie rating 5. every 5x5m have epoxy tile extension joint. Allow R500SQM excl. adhesive, grout and installation. To be confirmed by architect. Grout colour : Dove Grey</u>				
		On floors	m²	624		
		<u>600x300mm Full body first grade Porcelain tiles or similar approved finished with aluminium edge trim to all egdes,pie rating 5. every 5x5m have epoxy tile extension joint. Allow R450SQM excl. adhesive, grout and installation. To be confirmed by architect. Grout colour : Dove Grey</u>				
		on walls	m²	190		
5.1.1		<u>4th & 9th Floor</u>				
		<u>500 x 500mm Nottingham loose lay heavy commercial vinyl tiles with a group T (en 660) abrasion resistance or similar approved vinyl tiles laid to manufactures instruction</u>				
		On floors	m²	129		
		<u>Sanitary Fittings</u>				
		Midi weaver basin or similar approved with square chrome bottle trap, bolted to wall using 10mm bolts (code 8448Z000)	no.	6		
		perla surface mounted basin with square chrome bottle trap or similar approved	no.	1		
		orchid paraplegic wall hung pan with back inlet rim pan, inlet exposed flush valve and concealed cistern with remote actuator plate or similar approved	no.	1		
		refine wall hung pan, back inlet closed rim and thermoset soft close seat with geberit sigma concealed cistern and sigma 50 actuator plate or similar approved	no.	5		
		lavatera BI back inlet wall hung urinal with concealed (Back inlet) flushvalve, cobra FJ8.102 or similar approved	no.	3		
		Double quinline Q LX621-120 double end bowl sink, all-in one value pack , code : FRA-810016 with spaza F/2 double bowl plumbing kit, 50/90mm outlet or similar approved	no.	2		
		5.2		<u>TRAPS ETC</u>		
		<u>Similar or Approved</u>				
		<u>Ground & 4th floor kitchen</u>				
5.2.1		Belina sink mixer with aerated swivel outlet and mounting kit or similar approved	no.	2		
5.2.2		KQ-951R basin mixer or similar approved	no.	6		
5.2.3		NM-851 Elbow action basin mixer or similar approved	no.	1		
5.2.4		8939Z000, 8940Z000 and 8941Z000 Grab rails or similar approved	no.	1		
5.2.5		Copper-free mirror, glazed in accordance with NBR N schedule 1 and SABS 0137, sizes 1500mm x 600mm fixed to a backing board to create a floating mirror effect or similar approved	no.	7		
5.2.6		Toilet roll holder : Tuff Roll lockable 3 holder or systems or similar approved	no.	6		
5.2.7		Hands free hand dryer HF 2400 HD product code 359961 by "franke" or similar	no.	3		
5.2.8		waste disposal bin strx 605 product code 359730 by Frankie or similar approved	no.	3		
5.2.9		paper towel dispenser strx 600 product code 359730 by Frankie or similar approved	no.	3		
5.2.10		Hands free hand dryer HF950 SD "Franke" or similar approved	no.	5		
5.2.11		Zip stainless steel 7.5 litre hydroboil pro with instant boiling water or similar approved, connected to 15mm cold water supply and 220 volt 15 AMP electrical power supply, plugged and screws to wall	no.	2		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
6		CIVILS WORKS Sanitary Plumbing BILL NO.5 Alterations to existing pipework, etc: Cut into existing 50mm uPVC waste pipe as necessary for and provide and insert new access bend including all necessary fittings, jointing, etc., and connect up new uPVC branch pipe. Cut into existing 160mm uPVC waste pipe as necessary for and provide and insert new access bend including all necessary fittings, jointing, etc., and connect up new uPVC branch pipe. uPVC pipes: 40mm Pipes. 50mm Pipes. 110mm Pipes. Extra over uPVC pipes for fittings: 40mm Bend. 50mm Bend. 110mm Pan connector. 50mm Access bend. 110mm Access bend. Testing waste pipe system WATER AND FIRE SUPPLIES Class 460/0 copper pipes: 15mm Pipes. 22mm Pipes. Extra over class 460/0 copper pipes for capillary fittings: 15mm Fittings. 22mm Fittings. FITTINGS The following fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc The references given in the descriptions are to the respective types of fittings detailed on the Architect's drawing no 1-001-A-LA-0002-01 accompanying the tender documents for tender purposes. Prices for fittings shall include for all necessary closed ends, required ironmongery as outlined and all doors shall be fitted with 25mm concealed sprung hinges. Kitchen Cupboards etc Ground Floor and 4th Floor kitchen cupboards etc with RIH 1098 RAIEL HINGE CLOVER 105 degree soft close or similar 2 per door, with RIH915 RAFAEL zion handle Doors, sides & mid shelf: 16mm Bisom melamine on MDF gloss with with impact edging, all round colour white or similar approved. Backing boards: white moisture resistant masonite backing boards in cupboards and drawer units. Carcase: 16mm moisture resistant melamine board with impact edging all round colour white. Base unit to sit on adjustable 100mm stainless steel plinth legs Drawer unit approximate size 2500 x 600 x 840mm high, all sides to be 16mm moisture resistance malamine board white with impact edging, ball bearing slide 35mm UTA F/EXT 500mm-RIH 545 RAIEL or similar approved (sinks elsewhere). With door, sides & mid shelf (Ground floor) Drawer unit approximate size 3700 x 600 x 840 mm high, all sides to be 16mm moisture resistance malamine board white with impact edging, ball bearing slide 35mm UTA F/EXT 500mm-RIH 545 Rael or similar approved With door, sides & mid shelf (Ground floor) Countertops Ceasar stone 5031 statuario Maximus 20mm Quarts or similar approved Counter top size 2500 x 600mm, to be 16 mm moisture resistant melanine board with impact edging all round colour white. Base unit to sit on adjustable 100 mm stainless steel plinth legs.(Ground floor)				
6.1.1		Cut into existing 50mm uPVC waste pipe as necessary for and provide and insert new access bend including all necessary fittings, jointing, etc., and connect up new uPVC branch pipe.	no.	3		
6.1.2		Cut into existing 160mm uPVC waste pipe as necessary for and provide and insert new access bend including all necessary fittings, jointing, etc., and connect up new uPVC branch pipe.	no.	3		
6.1.3		40mm Pipes.	m	10		
6.1.4		50mm Pipes.	m	20		
6.1.5		110mm Pipes.	m	20		
6.1.6		40mm Bend.	no.	10		
6.1.7		50mm Bend.	no.	10		
6.1.8		110mm Pan connector.	no.	6		
6.1.9		50mm Access bend.	no.	6		
6.1.10		110mm Access bend.	no.	6		
6.1.11		Testing waste pipe system	item	1		
6.1.12		15mm Pipes.	m	50		
6.1.13		22mm Pipes.	m	30		
6.1.14		15mm Fittings.	no	25		
6.1.15		22mm Fittings.	no	15		
6.1.16		Drawer unit approximate size 2500 x 600 x 840mm high, all sides to be 16mm moisture resistance malamine board white with impact edging, ball bearing slide 35mm UTA F/EXT 500mm-RIH 545 RAIEL or similar approved (sinks elsewhere). With door, sides & mid shelf (Ground floor)	no.	1		
6.1.17		Drawer unit approximate size 3700 x 600 x 840 mm high, all sides to be 16mm moisture resistance malamine board white with impact edging, ball bearing slide 35mm UTA F/EXT 500mm-RIH 545 Rael or similar approved With door, sides & mid shelf (Ground floor)	no.	1		
6.1.18		Counter top size 2500 x 600mm, to be 16 mm moisture resistant melanine board with impact edging all round colour white. Base unit to sit on adjustable 100 mm stainless steel plinth legs.(Ground floor)	no.	1		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
		<u>CIVIL WORKS</u>				
		<u>Countertops</u> <u>Stone 5031 statuario Maximus 20mm Quarts similar or approved</u>				
6.1.19		Counter top size 3700 x 600mm, to be 16 mm moisture resistant melanine board with impact edging all round colour white. Base unit to sit on adjustable 100 mm stainless steel plinth legs.(Ground floor)	no.	1		
6.1.20		Counter top size 3700 x 500mm, to be 16 mm moisture resistant melanine board with impact edging all round colour white. Base unit to sit on adjustable 100 mm stainless steel plinth legs.(Ground floor)	no.	1		
6.1.21		Counter top size 3955 x 600 mm Ceasar stone 5031 statuario maximus 20mm Quartz Countertop with eased edgeor similar approved, painted 6mm low iron toughened Glass splashback 5150mmx 500 (4Th Floor)	no.	1		
6.1.22		Countertop 2400 x 600 mm and 500mm front panel , joint between top and front panel to be 45 degreemiter edge. Front panel 2400x500mm. Provision to be made for gms under counter support bracket.(Ground Floor)	no.	1		
6.1.23		Countertop 3030 x 600 mm and 500mm front panel , joint between top and front panel to be 45 degreemiter edge. Front panel 3030x500mm. Provision to be made for gms under counter support bracket.(Ground Floor)	no.	1		
7		<u>Mezzanine</u> <u>STRUCTURAL STEEL WORK</u> <u>Supplementary preambles</u> <u>Description of bolts shall be deemed to include nuts and washers</u> <u>STEEL COLUMNS AND BEAMS</u> <u>Welded beams in single lenghts with flat section bearer and connection plates bolted to columns</u>				
7.1.1		457 x 152 x 67 I Beam	Tonnes	0.05		
7.1.2		IPE 100 I Beam	Tonnes	6		
7.1.3		300 x 100 x 9 PFC	Tonnes	1		
		<u>BOLTS, FASTENERS, ETC.</u> <u>Bolts to Beams</u>				
7.1.4		16mm diameter bolts to beams	Tonnes	0.01		
		<u>PAINTING</u> <u>All painting to be done to Transnet's specification. Colour to be approved by the Architect.</u> <u>On galvanised structural steel columns, beams, etc.</u>				
7.1.5		On galvanised structural steel columns, beams, etc.	Tonnes	7		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
7.2		<u>CIVIL WORKS</u> <u>Mezzenanine</u> <u>CAPENTRY AND JOINERY</u> <u>Particle board</u> <u>Particle board shall comply with the following specifications</u> <u>Joinery</u> <u>Description of hardwood joinery shall be deemed to include</u> <u>pelleting of bolt holes</u> <u>Fixing</u> <u>items described as nailed shall be deemed to be fixed with</u> <u>hardened steel nails or shot pins to brickwork or concrete</u> <u>Laminate finish shall be glued under pressure, edge strips shall</u> <u>be built jointed at junctions with adjacent similar finish</u> <u>FIOORS ETC</u>				
7.2.1.		21mm Pine shutter ply timber on top of steel beams(2440x1220)	m	34		
7.2.2		<u>PLASTERING</u> <u>Internal cement plaster on walls</u> on walls	m ²	234		
7.2.3		on narrow widths	m ²	4		
7.2.4		<u>Paint</u> <u>All painting shall be done in accordance with specifications</u> <u>unless otherwise described</u> <u>Prepare, prime and paint new plastered surfaces with min 3</u> <u>finishing coats, with Plascon luxurious silk finish or similar</u> <u>approved. Painting to be in strict accordance with manufactures</u> <u>specification, Deep colour to Architects specifications</u> <u>Existing Dado Rail to remain and receive 2 coats of dulux Pearl</u> <u>Glo Paint or similar approved</u> on walls (Ablutions)	m ²	702		
7.2.5		<u>ON PLASTER BOARD</u> on partitions 1 Coat Dulux wood primer and 3 coats Dulux Pearl Glo water based Finish or similar approved. Paint colour Dark Grey; Drawing ref: 1-001-A-SC- 0005-01	m ²	2520		
7.2.6		On Doors	m ²	90		
7.2.7		All painting shall be done in accordance with specifications unless otherwise described Drawing reference: 1-001-A-SC-0005-01 On door frames	m ²	30		
7.3		<u>PAPERHANGING</u> Preparatory work to existing work. Surfaces shall be thoroughly washed down and allowed to dry completely before any paperhanging is commenced. Blistered or peeling paint shall be completely removed an cracks shall be opened, filled with a suitable filler and finished smooth. Bare plaster surfaces shall be painted with a single coat of inferior quality PVA emulsion paint. <u>PAPERHANGING TO NEW WORK</u> <u>Custom made full colour, floor to ceiling</u> Supply , Install, Design of Wallpaper.				
7.3.1		On previously painted walls and columns (9th floor) New 2800mm high wallpaper to all Corridors, passages,patern to be confirmed by architect. Allow R300/sqm excl. epoxy and installation.	m ²	66		
7.3.2		On previously painted walls and columns (2nd Floor)	m ²	1450		
8		<u>Ironmongery</u> <u>Supplementary Premeables</u> <u>D 27</u> <u>Hinges, Bolts ETC</u>				
8.1.1		100 x 75 SS GR13 Butt Hinge	No	3		
8.1.2		<u>Catches, Cabin Hooks, ETC</u> Union or similar approved Union AL8722AS Coat Hoak Rubber Tipped	No	1		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription				
		<u>CIVIL WORKS</u> <u>Ironmongery</u> <u>Supplementary Premeables</u> <u>Locks</u> <u>Equal or similar approved</u> <u>The Following locks are to be suitable for master key operation</u>				
8.1.3		Union 37651AS Paraplegic Facility Indicator Bolt AS or similar approved	No	1		
		<u>Handles</u> <u>Equal or similar approved</u>				
8.1.4		Union PHD-CF-300-22SS. SS BT Handle with Flange Fixing-300 Centres 22 Diameter	No	1		
		<u>Push Plates and Kicking Plates</u> <u>Equal or similar approved</u>				
8.1.5		700 x 800 mm Union SS5086-700W09 Kick Plate	No	1		
		<u>Door Closers</u>				
8.1.6		DC700DA AA CAM Motion Closer EN3-6 DA similar or approved	No	1		
		<u>Letters, Nameplates, ETC</u>				
8.1.7		SS5066-06SSE14 Paraplegic Sign similar or approved	No	1		
		<u>D28 /D29 / D36</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.8		8352-200BLK ALUMINIUM REFLEX HINGE 200mm black P/C	No	9		
		<u>Locks</u> <u>The Following locks are to be suitable for master key operation</u>				
8.1.9		QR35X85MM-SS ROLLER LATCH & DEADLOCK - STAINLESS STEEL	No	3		
8.1.10		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	3		
		<u>Handles</u> <u>Equal or similar approved</u>				
8.1.11		30x400mm Union 520286-400BBSS. SS KINGLET SQUARE PULL HANDLE BTB	No	3		
		<u>Push Plates and Kicking Plates</u> <u>Equal or similar approved</u>				
8.1.12		Union SS5306-05SS. SS E/PROFILE square Escutcheon(Pairs) or similar approved	No	3		
		<u>Door Closers</u>				
8.1.13		DC500DA AA CAM ACTION Closer EN 1-4 SIL	No	3		
		<u>Sliding Gear</u>				
8.1.14		87001SS FLOOR DOOR STOP SATIN SS	No	3		
		<u>D16 /D17</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.15		8352-200BLK ALUMINIUM REFLEX HINGE 200mm black P/C	No	6		
		<u>Locks</u> <u>Equal or similar approved</u> <u>The Following locks are to be suitable for master key operation</u>				
8.1.16		QR35X85MM-SS SPRING LATCH & DEADLOCK - STAINLESS STEEL	No	2		
8.1.17		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription		
		<u>CIVIL WORKS</u> <u>Ironmongery</u> <u>Supplementary Premeables</u> <u>Handles</u> equal or similar approved		
8.1.18		6274-06SS IMPALA LEVER HANDLE on ROSE	No	2
		<u>Sliding Gear</u> 87001SS FLOOR DOOR STOP SATIN SS	No	2
		<u>D30/D31/D32/D33/D34</u> <u>Hinges, Bolts ETC</u> 100X75 SS GR13 BUTT HINGE JH-BB-SS-STD.2BB	No	15
		<u>Catches, Cabin Hooks, ETC</u> equal or similar approved AL8722AS Coat Hoak Rubber Tipped	No	5
		<u>Locks</u> The Following locks are to be suitable for master key operation w/c 8mm DEADLOCK - Stainless steel	No	5
		<u>Handles</u> 22X200mm BTB 520286-200BBSS. SS KINGLET SQUARE PULL HANDLE	No	5
		<u>Push Plates and Kicking Plates</u> SS5306-05SS. SS BATHROOM square Escutcheon	No	5
		<u>D21/D22/D26</u> <u>Hinges, Bolts ETC</u> AL8208-180AS/MD Flush Bolt for Metal Doors	No	3
		<u>Locks</u> The Following locks are to be suitable for master key operation QR35x85mm-SS Roller Latch & Deadlock0 Stainless steel	No	3
		ALB208-180AS/MD Flush Bolt for Metal Doors <u>Handles</u> 30X400mm BTB Union 520286-400BBSS. SS KINGLET SQUARE PULL HANDLE or similar approved	No	3
		<u>Push Plates and Kicking Plates</u> <u>Equal or similar approved</u> SS5306-05SS. SS E/PROFILE SQUARE Escutcheon(Pairs)	No	3
		<u>Door closer</u> DC240DAHO CAM ACTION FS EN 2-4 DAHO	No	3
		<u>D18/D19/D20/D55/D56</u> <u>Hinges, Bolts ETC</u> 100X75 SS GR13 BUTT HINGE equal or similar approved JH-BB-SS-STD.2BB	No	15
		<u>Locks</u> The Following locks are to be suitable for master key operation L-2215-78SS/SL Mortice Sash Lock-Stainless steel	No	5
		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	5
		TOTAL CARRIED FORWARD TO SECTION SUMMARY		

Item	Payment Clause	Discription				
		<u>CIVIL WORKS</u> <u>Ironmongery</u> <u>Supplementary Premeables</u> <u>Handles</u>				
8.1.34		Equal or similar approved 6274-06SS IMPALA LEVER handle on Rose	No	5		
		<u>Sliding Gear</u>				
8.1.35		87001SS FLOOR DOOR STOP SATIN SS	No	5		
		<u>D39</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.36		100x75 similar or approved JH-BB-SS-STD, 2BB GR13 BUTT HINGE	No	3		
		<u>Locks</u>				
		The Following locks are to be suitable for master key operation				
8.1.37		QR35x85mm-SS Deadbolt lock 35MW- Stainless steel	No	1		
8.1.38		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	1		
		<u>Handles</u>				
8.1.39		FF65x50SS Flush Finger Pull 65x50mm	No	1		
		<u>Push Plates and Kicking Plates</u>				
8.1.40		PZ-05SS, Escutcheon on Rose Profile (Pairs)	No	1		
		<u>D37/D38</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.41		8352-200BLK Aluminium Reflex Hinge 200mm Black P/C	No	4		
		<u>Catches, Cabin Hooks, ETC</u>				
8.1.42		ARC1182SS Roller Catch	No	2		
		<u>Handles</u>				
8.1.43		Equal or approved FF65x50SS Flush Finger Pull 65x50mm	No	2		
		<u>D35</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.44		200mm Black P/C Union 8352-200BLK Aluminium Reflex Hinge or similar approved	No	3		
		<u>Locks</u>				
		The Following locks are to be suitable for master key operation				
8.1.45		QR35x85mm-SS Roller Latch & Deadlock 35MW- Stainless steel	No	1		
8.1.46		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	1		
		<u>Handles</u>				
8.1.47		30x400mm BTB, Union 520286-400BBSS, SS Kinglet Square Pull handle or similar approved	No	1		
		<u>Push Plates and Kicking Plates</u>				
		<u>Equal or approved</u>				
8.1.48		SS5306-05SS, SS E/Profile Square Escutcheon(Pairs)	No	1		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription				
		<u>CIVIL WORKS</u>				
		<u>Ironmongery</u>				
		<u>Supplementary Preambleables</u>				
		<u>Door Closers</u>				
8.1.49		Equal or similar approved DC 500 CAM Action Closer EN 1-4 SL	No	1		
		<u>Sliding Gear</u>				
8.1.50		87001SS Floor Door Stop Satin SS or similar approved	No	1		
		<u>D01-D15 / D40-D54</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.51		200mm Black P/C Union 8352-200BLK Aluminium Reflex Hinge or similar approved	No	90		
		<u>Locks</u>				
		The Following locks are to be suitable for master key operation				
8.1.52		QR35x85mm-SS Spring Latch and Deadbolt Lock- Stainless steel	No	30		
8.1.53		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	30		
		<u>Handles</u>				
8.1.54		6274-06SS Impala lever Handle on Rose	No	30		
		<u>Sliding Gear</u>				
8.1.55		87001SS Floor Door Stop Satin SS	No	30		
		<u>D23/D24/D25/P27/P28/P30/P31</u>				
		<u>Hinges, Bolts ETC</u>				
8.1.56		200mm Black P/C Union 8352-200BLK Aluminium Reflex Hinge	No	28		
		<u>Locks</u>				
		The Following locks are to be suitable for master key operation				
8.1.57		QR35x85mm-SS Roller Latch and DeadLock- Stainless steel	No	7		
8.1.58		2X18SCMKD DOUBLE CYLINDER PROFILE MKD SC	No	7		
		<u>Handles</u>				
8.1.59		520286-40BBSS, SS Kinglet Square Pull Handle 30x400mm BTB	No	7		
		<u>Push Plates and Kicking Plates</u>				
8.1.60		SS5306-05SS, SS E/Profile Square Escutcheon(Pairs)	No	7		
		<u>Door Closers</u>				
8.1.61		DC 500 CAM Action Closer EN 1-4 SL	No	7		
		<u>Sliding Gear</u>				
8.1.62		87001SS Floor Door Stop Satin SS	No	4		
		<u>Photoluminentscent Signs</u>				
		<u>Supplementary Preambleables</u>				
		<u>All signage as per Transnet Brand Guidelines</u>				
8.1.63		500 x 200 mm Sign with Male and Female sign (T-INT-19/20)	No	17		
8.1.64		220 x 200mm Sign with Male sign (T-INT-19)	No	3		
8.1.65		220 x 200mm Sign with Male sign (T-INT-20)	No	3		
8.1.66		220 x 200mm Sign with Wheelchair sign (T-INT-21)	No	3		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription			
		CIVIL WORKS			
		<u>Photoluminescent Signs</u>			
		<u>Supplementary Preambles</u>			
8.1.62		500 x 200mm Sign (T-INT-20)	No	26	
8.1.63		1130mm Transnet Port Terminal Logo Sign (T-INT 21)	No	4	
8.1.64		150 x 60 mm Sign with Numbers (T-INT-16)	No	75	
8.1.65		200 x 200 mm Sign with Coffee pictogram sign (T-INT-19)	No	6	
8.1.66		400 x 100mm Sign with Arrows sign (T-INT-10)	No	12	
8.1.67		500 x 420 mm Sign with Transnet logo and arrows (T-INT-08)	No	9	
8.1.68		300 x 213 mm Sign (T-INT-15)	No	13	
8.1.69		600 x 425 mm Sign No Authorized Sign (T-INT-23)	No	6	
8.1.70		300 x 60 mm Sign (T-INT-17)	No	61	
8.1.71		1500 x 210 mm Sign (T-INT-2)	No	6	
8.1.72		1130mm Transnet Port Terminal Logo Sign (T-INT 28)	No	15	
8.2		<u>FURNITURE</u>			
		<u>Delivery of Flatpacks Furniture</u>			
		<u>All furniture from Storage is flat packed. Furniture to be transported to site, assembled and placed into position approximately 15 kms. All furniture from TPT HQ to be dismantled, wrapped and transported to site approximately 10 kms.</u>			
		<u>Furniture to be re-assembled and placed into position on site. All frames at TPT HQ to be wrapped and transported to site. Picture frames to be hung on walls as determined on site using 2 by M8 hilti HRD-CR Plastic Frame anchors per frame.</u>			
		<u>Load, Deliver Flatpacks furniture from TPT HQ Office and Storage to be delivered to 202 Antony Lembede street TPL Office.</u>			
		STORAGE			
8.2.1		TYPE 1 HOT DESK RIGHT HANDED	no.	75	
8.2.2		TYPE 2 HOT DESK LEFT HANDED	no.	75	
8.2.3		TYPE 5 GM DESK RIGHT HANDED	no.	3	
8.2.4		STANDARD WORKSTATION CHAIRS	no.	50	
8.2.5		GM MEETING TABLE CHAIRS	no.	16	
8.2.6		GM CHAIR	no.	4	
8.2.7		GM BOARDROOM CHAIRS	no.	6	
8.2.8		BOARDROOM CHAIRS	no.	56	
8.2.9		BOARDROOM CHAIRS	no.	22	
8.2.10		GM WALL UNIT	no.	4	
8.2.11		GM MEETING TABLE 4 SEATER	no.	4	
8.2.12		BOARDROOM TABLE 6 SEATER	no.	1	
8.2.13		BOARDROOM TABLE 8 SEATER	no.	4	
8.2.14		BOARDROOM TABLE 10 SEATER	no.	1	
8.2.15		BOARDROOM TABLE 14 SEATER	no.	1	
8.2.16		DESK SCREEN 1900 X 500	no.	97	
8.2.17		DESK SCREEN 1600 X 500	no.	131	
8.2.18		WORKSTATION WASTE BINS	no.	100	
		TPT HQ			
8.2.19		TYPE 3 PERMANENT DESK RIGHT HANDED		67	
8.2.20		TYPE 4 PERMANENT DESK LEFT HANDED		69	
8.2.21		TYPE 6 GM DESK LEFT HANDED		4	
8.2.22		CE DESK		1	
		TOTAL CARRIED FORWARD TO SECTION SUMMARY			

Item	Payment Clause	Discription				
		CIVIL WORKS				
8.2.23		CANTEEN TABLES		12		
8.2.24		COFFEE TABLES		4		
8.2.25		STANDARD WORKSTATION CHAIRS		286		
8.2.26		GM MEETING TABLE CHAIRS		12		
8.2.27		GM CHAIR		3		
8.2.28		CE SINGLE SEATER COUCH		6		
8.2.29		CE DOUBLE SEATER COUCH		1		
8.2.30		CE CHAIR		1		
8.2.31		CE BOARDROOM CHAIRS		8		
8.2.32		SINGLE SEATER ARM CHAIR		6		
8.2.33		DOUBLE SEATER COUCH		2		
8.2.34		CANTEEN CHAIRS		48		
8.2.35		BAR STOOL		5		
8.2.36		FILING CABINET / CREDENZA		108		
8.2.37		GM WALL UNIT		3		
8.2.38		CE FLOOR UNIT		2		
8.2.39		SIDE UNIT		1		
8.2.40		GM MEETING TABLE 4 SEATER		3		
8.2.41		CE MEETING TABLE		1		
8.2.42		BOARDROOM TABLE 22 SEATER		1		
8.2.43		CE BOARDROOM TABLE 8 SEATER		1		
8.2.44		DESK SCREEN 2400 X 500		80		
8.2.45		DESK SCREEN 1600 X 500		125		
8.2.46		WORKSTATION WASTE BINS		186		
8.2.47		OFFICE RECYCLING BIN		10		
8.2.48		CANVAS PICTURE FRAME SET		6		
8.2.49		CANVAS PICTURE FRAME		10		
8.2.50		PICTURE FRAME WITH GLASS FRONT		10		
8.2.51		PICTURE FRAME WITH GLASS FRONT		10		
8.2.52		PICTURE FRAME WITH GLASS FRONT		10		
8.2.53		PICTURE FRAME WITH GLASS FRONT		10		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Page	Amount
		CIVILS SECTION SUMMARY		
		SECTION SUMMARY		
		Page Total brought forward	4	
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Item	Payment Clause	Discription	Unit	Qty	Rate	Amount
9		<u>ELECTRICAL WORKS</u> <u>BILL NO.6</u> <u>GROUND FLOOR</u> <u>Note</u> <u>All the electrical works shall be carried out in accordance with TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments of SANS 10142-1 Code of Practice for the Wiring of Premises and any additional requirements thereto, described in this specification</u>				
9.1.1		Allowance for safe dismantling of the existing electrical infrastructure comprising of lighting, the associated wiring and wireways. <u>Cable Racking</u> <u>Note</u> <u>All installations shall be safely done in accordance with SANS 10142. Cable ladder shall be supported at every 1,5m intervals as details on drawing:001-E-LA-0001-01</u>	sum	1		
9.1.2		Supply and install Hot-dip Galvanised 200mm lite span straight cable ladder	ea	15		
9.1.3		Supply and install Hot-dip Galvanised 200mm lite span horizontal bend cable ladder	ea	4		
9.1.4		Supply and install Hot-dip Galvanised 200mm external bend cable ladder	ea	3		
9.1.5		Supply and install Hot-dip Galvanised flat splice set c/w fasteners	ea	15		
9.1.6		Supply and installation Hot-dip Galvanised 200mm Single Cantilever bracket.	ea			Rate only
9.1.7		Supply and installation of Hot-dip Galvanised 40x40mm channel (This shall be cut into 250mm lengths for the cable ladder supports)	ea	3		
9.1.8		Supply and installation of Hot-dip Galvanised 40x40mm channel hangers	ea	50		
9.1.9		plate, joint, support structure lugged and secured with galvanised bolts	ea	10		
9.1.10		200mm dia x 400mm deep concrete core drilling and make good (drilling procedure shall be provided onsite).	each	5		
		<u>Cabling</u> <u>Note</u> <u>Stainless Steel bandit straps. Cable tag numbers to be Stainless Steel.</u>				
9.1.11		Supply and installation of 185mm ² PVC insulated PVC Bedded SWA PVC sheathed 600/1000V x 4 Core cable as shown on drawing:001-E-LA-0001-01	m	50		
9.1.12		Supply and install 70mm ² PVC insulated earth conductor as shown on drawing:001-E-LA-0001-01	m	50		
9.1.13		Supply and installation of 16mm ² PVC insulated PVC Bedded SWA PVC sheathed 600/1000V x 4 Core cable as shown on drawing:001-E-LA-0001-01	m	20		
9.1.14		Supply and install 6mm ² PVC insulated earth conductor as shown on drawing:001-E-LA-0001-01	m	20		
9.1.15		Supply and installation of 4mm ² PVC insulated PVC Bedded SWA PVC sheathed 600/1000V x 4 Core cable as shown on drawing:001-E-LA-0001-01	m	20		
9.1.16		Supply and install 2,5mm ² PVC insulated earth conductor as shown on drawing:001-E-LA-0001-01	m	20		
		<u>Cable Terminations</u> <u>Note:</u> <u>Cable terminations shall include mechanical gland with relevant shroud or housing, lugs, hexagon crimped, core sleeve identification.</u>				
9.1.17						
9.1.18		Supply and Install a No.6 captive component terminal gland set	ea	2		
9.1.19		Supply and Install a No.3 compression gland set	ea	2		
9.1.20		Supply and Install a No.3 captive component terminal gland set	ea	2		
9.1.21		Supply and Install a No.2 compression gland set	ea	2		
9.1.22		Supply and Install a No.1 captive component terminal gland set	ea	2		
9.1.23		Supply and Install a No.0 compression gland set	ea	2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
		ELECTRICAL WORKS				
		Distribution Board				
		<u>Note:</u> <u>Distribution board works and or installation shall be carried out in accordance with TPD-002-DBSPEC Technical specification for low voltage distribution boards, OEM regulations and SANS 10142-1</u>				
9.1.24		Supply and installation of a new surface mounted distribution board c/w with all components as per drawing no:001-E-LA-0008-01.	sum	1		
9.1.25		Supply and installation of a 320A,15kA, 4P Moulded Case Circuit Breaker c/w Magnetic Trip Unit. The CB shall be housed in a suitable metal junction box for termination 185mm ² PVC insulated PVC Bedded SWA PVC sheathed 600/1000V x 4 Core cable of a 185mm ² and be secured/installed at the existing DB -G-B panel shown in the drawing,	sum	1		
		Trunking				
		<u>Supply and install Pre-galvanized wiring channel/ OL2000 trunking with built-in splice tab and with PVC covers as shown on drawing:001-E-LA-0001-01. The trunking shall be suspended with 10mm threaded rods inside the ceiling void.</u>				
9.1.26		Straight length	m	400		
9.1.27		Distribution Outlet	ea	2		
9.1.28		PVC Cover	m	400		
9.1.29		10mm dia Zinc plated threaded Rod	m	200		
9.1.30		OL2000 trunking hanger	ea	50		
9.1.31		Miscellaneous trunking items: Rawl bolts, Anchor bolts, springs washers, fender washers, flat washers, coupling, channel hangers, nuts,screws, bolts and nuts	sum	1		
		Lighting				
		<u>Note:</u> <u>The light fittings shall be the pluggable type and must be supplied with about 2m length flexible cord and a plug-top. Unswitched socket outlets shall be installed in the ceiling void on the sides of the OL2000 trunking or concrete at reach to the light fittings.</u>				
9.1.32		Supply and installation of 5A unswitched socket outlet complete with PVC round box	ea	72		
9.1.33		Supply and install of one way single lever flush type light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to cabtree.	ea	9		
9.1.34		Supply and install of one way double lever flush type light switch.	ea	2		
9.1.35		4x2 mounting box and cover plate. Equal or similar approved to cabtree.	ea	7		
9.1.36		Supply and install ceiling mount 360° PIR Occupancy sensor. Equal or similar approved to Legrand	ea	9		
9.1.37		600x 600mm 25W LED recessed mount panel with white finish as detailed on drawing:001-E-LA-0002-01	ea	72		
9.1.38		600x 600mm 25W LED ceiling mount panel light fitted with 60minutes emergency gear as detailed on drawing:001-E-LA-0002-01	ea	12		
9.1.39		Supply and installation of equal or similar approved to recess mount Beka Rondo LED HE 11W	ea	42		
9.1.40		Supply and installation of equal or similar approved to recess mount Beka Rondo LED Eco 22W, 4000K	ea	25		
9.1.41		Supply and installation of equal or similar approved to recess mount Beka Rondo LED Eco 22W, 4000K c/w 60minutes emergency kit	ea	7		
		Wiring				
		<u>Note:</u> <u>Wiring shall be pulled into the ceiling void trunking, conduiting for power circuits and to the powerskirting for power circuits as shown on drawing. (2,5mm² housewire for lighting as well as the plugs circuits, and the 4mm² housewire for the power isolators)</u>				
9.1.42		2,5mm ² housewire (Red)	m	1500		
9.1.43		2,5mm ² housewire (White)	m	1500		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
		ELECTRICAL WORKS				
9.1.44		2,5mm ² housewire (Blue)	m	1500		
9.1.45		2,5mm ² housewire (Black)	m	1500		
9.1.46		2,5mm ² housewire - earthing (Green/Yellow)	m	1500		
9.1.47		4mm ² housewire (Red)	m	50		
9.1.48		4mm ² housewire (White)	m	50		
9.1.49		4mm ² housewire (Blue)	m	50		
9.1.50		4mm ² housewire (Black)	m	50		
9.1.51		4mm ² housewire - earthing (Green/Yellow)	m	50		
9.1.52		Supply and installation of wiring miscellaneous accessories including ferrules;lugs,screws,washer,PVC glands,silcon, glue, rubber gromets	Sum	1		
		Conduit <u>Conduiting shall be securely installed and saddled at 1,5m intervals in the ceiling void on the concrete soffit.</u>				
9.1.53		Supply and Installation of 20 mm PVC conduit	m	200		
9.1.54		Supply and Installation of 32 mm PVC conduit	m	300		
9.1.55		Conduit installation accessories including end caps,ids,saddles,couplings, adaptors, bends, round boxes, wall boxes, junction boxes, push-in glands, PVC glue	Sum	1		
		Power (Socket outlets and Isolators) <u>Note:</u> Supply and installation of power outlets and sockets in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments as shown on drawing:001-E-LA-0002-01 Allowance for sockets/isolators shall include mounting boxes and cover plates.				
9.1.56		45A,380V, IP66, 3Pole Surface mounted Rotary Isolator switch	ea	1		
9.1.57		32A Surface mount 380V Isolator switch	ea			Rate Only
9.1.58		20A, 220V Surface mounted single phase Isolator switch (in ceiling void)	ea	12		
9.1.59		20A,380V,3Pole, IP66 Rotary Isolator switch	ea	1		
9.1.60		20A,220V Recess mount Isolator switch	ea	4		
9.1.61		20A Recess mount 220V Cordgrip Isolator	ea	1		
9.1.62		16A Surface mounted 220V standard switched socket outlets	ea	7		
9.1.63		16A Standard flush mounted 220V single switched socket outlets	ea	5		
9.1.64		16A,220V flush mounted single switched socket outlets comprising of	ea	2		
9.1.65		16A Powerskirting mounted 220V single switched socket outlets	ea	60		
9.1.66		16A Shaved earth pin/dedicated 220V socket outlets mounted on powerstking (Red)	ea	112		
9.1.67		Supply and installation of equal or similar approved to Legrand 4 compartment flush mounted carpet floor boxes comprising of standard SSO + Dedicated shaved Earth pin SSO and 2 x Comms points c/w flush metal mounting box and clip-on lid.	ea	9		
9.1.68		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea			Rate only
		ICT <u>Note:</u> <u>Switching network equipment to be connected via fiber uplink, and all Power over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switcht to terminating LAN ethernet network points</u>				
		TOTAL CARRIED FORWARD TO SECTION B				

Item	Payment Clause	Discription	Unit	Qty	Rate	Amount
		<u>ELECTRICAL WORKS</u>				
		<u>ICT</u>				
9.1.69		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	944		
9.1.70		Supply and installation of RJ45 connector	ea	100		
9.1.71		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	50		
9.1.72		Supply and installation of RJ11 CAT6 Telephone point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	50		
9.2		<u>Powerskirting</u> Supply and install 2 tier grey power skirting trunking c/w lids, ends,bends joints and spacers - all firmly secured to the relevant walls as shown on drawing:001-E-LA-0002-01.				
9.2.1		Straight Length	m	200		
9.2.2		Joints	ea	100		
9.2.3		Internal elbow	ea	28		
9.2.4		External elbow	ea	5		
9.2.5		Flat elbow	ea			Rate Only
9.2.6		Flat Junction	ea			Rate Only
9.2.7		End caps	ea	5		
		<u>Testing and Commissioning</u>				
		<u>Note:</u>				
9.2.8		Allowance for testing and commissioning of the entire electrical installation in accordance with SANS 10142-1	sum	1		
		<u>Ground/Mezzanine Floor</u>				
		<u>Lighting</u>				
9.2.9		Supply and installation of new 1200mm LED light fittings wired with 2,5mm ² PVC insulated house wire.	ea	5		
9.2.10		Supply and installation of new 1200mm 40W LED light fitting wired with 2,5mm ² PVC insulated house wire c/w emergency kit.	ea	1		
9.2.11		Supply and Install new 20A,6kA single Circuit breaker installed at the existig Ground Distribution Board.	ea	1		
		<u>Wiring</u>				
		<u>Note:</u>				
		Wiring shall be safely pulled through PVC conduit from the existing electrical distribution boards via ceiling space to the powerskirting for power circuits as shown on drawing:001-E-LA-0002-01.				
9.2.12		2,5mm ² housewire (Red)	m	30		
9.2.13		2,5mm ² housewire (Black)	m	30		
9.2.14		2,5mm ² housewire - earthing (Green/Yellow)	m	30		
9.2.15		Supply and install ceiling mount 360° PIR Occupancy sensor. Equal or similar approved to Legrand	ea	1		
9.2.16		Supply and install of one way single lever flush type light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to cabtree.	ea	1		
		<u>Conduiting</u>				
		<u>Note:</u>				
		<u>Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.</u>				
9.2.17		Supply and installation of 20mm PVC conduit	m	20		
9.2.18		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	Sum	1		
		<u>Second Floor</u>				
		<u>Works in the Distribution Boards</u>				
		<u>Note:</u>				
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Description	Unit	Qty	Rate	Amount
		ELECTRICAL WORKS Second Floor Works in the Distribution Boards Note: The Contractor shall supply and install new additional power circuits in the existing distribution boards (DB - B, C & D) as indicated on drawing number: 001-E-LA-0008-01. This shall include finding the spare spaces, installation of new miniature circuit breakers matching the existing specification (Schneider Electric) labelling and updating of the distribution boards legends. The works shall be carried out in accordance with SANS 10142-1 and specification No. TPD: 001-EL&PSPEC; Technical specification for the supply and installation of electrical lighting and power in buildings other than dwelling houses				
9.2.19		Supply and Installation of 63A, 6kA Din mount single Double pole miniature earth leakage unit. Equal or similar approved to Schneider Electric. Each ELU/phase shall cater for at least 6 circuits.	ea	9		
9.2.20		Supply and Installation of 20A, 6kA Din mount equal or similar approved to Schneider Electric single pole miniature circuit breaker	ea	33		
		Conduiting Note: Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.				
9.2.21		Supply and installation of 20mm PVC conduit	m	90		
9.2.22		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	sum	1		
		Powerskirting <u>Supply and install 3 tier PVC grey power skirting trunking c/w lids, ends,bends joints and spacers all firmly secured to the relevant walls as shown on drawing: 001-E-LA-0005-01(Similar specification to the existing powerskirting).The rates shall include all the mounting screws and accessories.</u>				
9.2.23		Straight Length	m	180		
9.2.24		Joints	ea	60		
9.2.25		Internal elbow	ea	9		
9.2.26		External elbow	ea	2		
9.2.27		Flat elbow	ea			Rate Only
9.2.28		Flat elbow	ea			Rate Only
9.2.29		End caps	ea	10		
		Power Note: <u>Supply and installation of standard and shaved earth pin /dedicated socket outlets on powerskirting in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments as shown on drawing:001-E-LA-0003-01. Allowance shall include circuits labelling.</u>				
9.2.30		16A Power skirting mounted single switched socket outlets	ea	64		
9.2.31		16A Shaved earth pin/dedicated socket outlets mounted on powerskirting (Red)	ea	106		
9.2.32		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea	53		
		ICT NOTE: <u>Switching network equipment/switch to be connected via fiber uplink, and all Power over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switch to terminating LAN ethernet network points</u>				
9.2.33		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	1758		
9.2.34		Supply and installation of RJ45 connector	ea	138		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty	Rate	Amount
		<u>ELECTRICAL WORKS</u>				
		<u>ICT</u>				
9.2.35		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w holding bracket, cover and accessories.	ea	53		
9.2.36		Supply and installation of RJ11 CAT6 Telephone point into a data/comms	ea	53		
9.3		<u>Wiring</u>				
		Note: Wiring shall be safely pulled through PVC conduit from the existing electrical distribution boards via ceiling space to the powerskirting for power circuits as shown on drawing:001-E-LA-0003-01.				
9.3.1		2,5mm ² housewire (Red)	m	500		
9.3.2		2,5mm ² housewire (White)	m	500		
9.3.3		2,5mm ² housewire (Blue)	m	500		
9.3.4		2,5mm ² housewire (Black)	m	500		
9.3.5		2,5mm ² housewire - earthing (Green/Yellow)	m	500		
		<u>Testing and Commissioning</u>				
		Note: Allowance for testing and commissioning in accordance with SANS 10142-1.	sum	1		
		<u>Third Floor</u>				
		<u>Existing Distribution Board</u>				
		Note: Supply and installation of new additional power circuits in the existing distribution board (DB- D) as indicated on drawing number:001-E-LA-0008-01. This shall include finding the spare spaces, installation of new miniature circuit breakers matching the existing specification (Schneider Electric) labelling and updating of the existing distribution boards legends (legend shall be laminated and stuck inside the DB doors.				
9.3.7		Supply and Installation of 63A, 6kA Din mount single phase miniature earth leakage unit. Equal or similar approved to Schneider Electric.	ea	2		
9.3.8		Supply and Installation of 20A, 6kA Din mount equal or similar approved to Schneider Electric single pole miniature circuit breaker	ea	8		
		<u>Conduiting</u>				
		Note: Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.				
9.3.9		Supply and installation of 20mm PVC conduit	m	50		
9.3.10		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	Sum	1		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>ELECTRICAL WORKS</u>				
		<u>Powerskirting</u> Supply and install 3 tier PVC grey power skirting trunking c/w lids, ends, bends joints and spacers all firmly secured to the relevant walls as shown on drawing:001-E-LA-0004-01. (Similar specification to the existing powerskirting). The rates shall include all the mounting screws and accessories.				
9.3.11		Straight Length	m	90		
9.3.12		Joints	ea	12		
9.3.13		Internal elbow	ea	1		
9.3.14		External elbow	ea			Rate Only
9.3.15		Flat elbow	ea			Rate Only
9.3.16		Flat Junction	ea			Rate Only
9.3.17		End caps	ea	3		
		<u>Power</u> Note: Supply and installation of standard and shaved earth pin /dedicated socket outlets on powerskirting in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments as shown on drawing:001-E-LA-0004-01. Allowance shall include circuits labelling.				
9.3.18		16A Power skirting mounted single switched socket outlets	ea	18		
9.3.19		16A Shaved earth pin/dedicated socket outlets mounted on powerstking (Red)	ea	30		
9.3.20		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea	15		
		<u>ICT</u> NOTE: Switching network equipment/switch to be connected via fiber uplink, and all Power over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switch to terminating LAN ethernet network points				
9.3.21		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	483		
9.3.22		Supply and installation of RJ45 connector	ea	30		
9.3.23		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w holding bracket, cover and accessories.	ea	15		
9.3.24		Supply and installation of RJ11 CAT6 Telephone point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	15		
		<u>Wiring</u> Note: Wiring shall be safely pulled through PVC conduit from the existing electrical distribution board via ceiling space to the powerskirting for power circuits as shown on drawing:001-E-LA-0004-01.				
9.3.25		2,5mm ² housewire (Red)	m	400		
9.3.26		2,5mm ² housewire (White)	m	400		
9.3.27		2,5mm ² housewire (Blue)	m	400		
9.3.28		2,5mm ² housewire (Black)	m	400		
9.3.29		2,5mm ² housewire - earthing (Green/Yellow)	m	400		
		<u>Testing and Commissioning</u>				
9.3.30		Allowance for testing and commissioning in accordance with SANS 10142-1.	sum	1		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		ELECTRICAL WORKS				
		Fourth Floor				
		<u>Existing Distribution Board</u>				
		<u>Note:</u> Supply and installation of new additional power circuits in the existing distribution board (DB- D) as indicated on drawing number: 001-E-LA-0008-01. This shall include finding the spare spaces, installation of new miniature circuit breakers matching the existing specification (Schneider Electric) labelling and updating of the existing distribution boards legends (legend shall be laminated and stuck inside the DB doors.				
9.3.31		Supply and Installation of 63A, 6kA Din mount single phase miniature earth leakage unit. Equal or similar approved to Schneider Electric.	ea	3		
9.3.32		Supply and Installation of 20A, 6kA Din mount equal or similar approved to Schneider Electric single pole miniature circuit breaker.	ea	17		
		Conduiting				
		<u>Note:</u> Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.				
		Supply and installation of 20mm PVC conduit	m	200		
9.3.33		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	Sum	1		
		Powerskirting				
		Supply and install 3 tier PVC grey power skirting trunking c/w lids, ends,bends joints and spacers all firmly secured to the relevant walls as shown on drawing:001-E-LA-0005-01. (Similar specification to the existing powerskirting).The rates shall include all the mounting screws and accessories.				
9.3.34		Straight Length	m	100		
9.3.35		Joints	ea	50		
9.3.36		Internal elbow	ea	5		
9.3.37		External elbow	ea			Rate Only
9.3.38		Flat elbow	ea			Rate Only
9.3.39		Flat Junction	ea			Rate Only
9.3.40		End caps	ea	6		
		Power				
		<u>Note:</u> Supply and installation of standard and shaved earth pin /dedicated socket outlets on powerskirting and recessed onto the walls in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments as shown on drawing:001-E-LA-0005-0 Allowance shall include circuits labelling, wall boxes and cover plates.				
9.3.41		16A Powerskirting mounted single switched socket outlets	ea	25		
9.3.42		16A Shaved earth pin/dedicated socket outlets mounted on powerstking (Red)	ea	40		
9.3.43		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea			Rate Only
9.3.44		20A Recess mount 220V Cordgrip Isolator	ea	1		
9.3.45		16A Standard flush mounted 220V single switched socket outlets	ea	3		
9.3.46		20A, 220V Surface mounted single phase Isolator switch (in ceiling void)	ea	10		
		ICT				
		<u>NOTE:</u> Switching network equipment/switch to be connected via fiber uplink, and all Power over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switcht to terminating LAN ethernet network points				
9.3.47		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	554		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>ELECTRICAL WORKS</u>				
		<u>ICT</u>				
9.3.48		Supply and installation of RJ45 connector	ea	42		
9.3.49		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w holding bracket, cover and accessories.	ea	20		
9.3.50		Supply and installation of RJ11 CAT6 Telephone point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	20		
		<u>Wiring</u>				
		Note: Wiring shall be safely pulled through PVC conduit from the existing electrical distribution board via ceiling space to the powerskirting for power circuits as shown on drawing:001-E-LA-0005-01.				
9.3.51		2,5mm ² housewire (Red)	m	400		
9.3.52		2,5mm ² housewire (White)	m	400		
9.3.53		2,5mm ² housewire (Blue)	m	400		
9.3.54		2,5mm ² housewire (Black)	m	400		
9.3.55		2,5mm ² housewire - earthing (Green/Yellow)	m	400		
		<u>Lighting</u>				
		Note: The light fittings shall be the ceiling mount type and must be supplied with about 2m length flexible cord and a plug-top, with capabilities of the cord being removed and directly wire the fitting.				
9.3.56		Supply and installation of 5A unswitched socket outlet complete with PVC round box	ea	40		
9.3.57		Supply and install of one way single lever flush type light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to cabtree.	ea	14		
9.3.58		Supply and install of one way double lever flush type light switch.	ea	2		
9.3.59		Supply and install of dimmable flush type light switch light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to Legrand.	ea	2		
9.3.60		Provisional allowance of ten thousand rands (R10 000) for repositioning of the existing light fittings around the existing 600x600mm removable ceiling.	sum	1		
9.3.61		Supply and install 360° PIR Occupancy sensor. Equal or similar approved to Legrand.	ea	2		
9.3.62		Allowance for 600x 600mm 25W LED ceiling mount panel light as detailed on detailed on drawing:001-E-LA-0005-01	ea	23		
9.3.63		Allowance for 600x 600mm 25W LED ceiling mount panel light fitted with 60minutes emergency kit as detailed on detailed on drawing:001-E-LA-0005-01	ea	16		
9.3.64		Supply and installation of equal or similar approved to recess mount dimmable Beka Rondo LED HE 11W	ea	12		
		<u>Testing and Commissioning</u>				
9.3.65		Allowance for testing and commissioning accordance with SANS 10142-1.	sum	1		
		<u>Fifth Floor</u>				
		Existing Distribution Board works				
		Note: Supply and installation of new additional power circuits in the existing distribution boards (DB C&D) as indicated on drawing number: 001-E-LA-0008-01. This shall include finding the spare spaces, installation of new miniature circuit breakers matching the existing specification (Schneider Electric) labelling and updating of the existing distribution boards legends (legend shall be laminated and stuck inside the DB doors.				
9.3.66		Supply and Installation of 63A, 6kA Din mount single phase miniature earth leakage unit. Equal or similar approved to Schneider Electric.	ea	8		
9.3.67		Supply and Installation of 20A, 6kA Din mount equal or similar approved to Schneider Electric single pole miniature circuit breaker.	ea	63		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
9.4		<u>ELECTRICAL WORKS</u> <u>Conduiting</u> <u>Note:</u> Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.				
9.4.1		Supply and installation of 20mm PVC conduit	m	350		
9.4.2		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	ea	1		
		<u>Powerskirting</u> Supply and install 3 tier PVC grey power skirting trunking c/w lids, ends,bends joints and spacers all firmly secured to the relevant walls as shown on drawing:001-E-LA-0006-01 . (Similar specification to the existing powerskirting).The rates shall include all the mounting screws and accessories.				
9.4.3		Straight Length	m	130		
9.4.4		Joints	ea	39		
9.4.5		Internal elbow	ea	4		
9.4.6		External elbow	ea			Rate Only
9.4.7		Flat elbow	ea			Rate Only
9.4.8		Flat Junction	ea			Rate Only
9.4.9		End caps	ea	5		
		<u>Power</u> <u>Note:</u> Supply and installation of standard and shaved earth pin /dedicated socket outlets on powerskirting in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments. Allowance shall include circuits labelling				
9.4.10		16A Powerskirting mounted single switched socket outlets	ea	41		
9.4.11		16A Shaved earth pin/dedicated socket outlets mounted on powerstking (Red)	ea	82		
9.4.12		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea	38		
		<u>ICT</u> <u>NOTE:</u> Switching network equipment/switch to be connected via fiber uplink, and all Power Over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switcht to terminating LAN ethernet network points				
9.4.13		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	1033		
9.4.14		Supply and installation of RJ45 connector	ea	138		
9.4.15		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w holding bracket, cover and accessories.	ea	53		
9.4.16		Supply and installation of RJ11 CAT6 Telephone point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	53		
		<u>Wiring</u> <u>Note:</u> Wiring shall be safely pulled through PVC conduit from the existing electrical distribution board via ceiling space to the powerskirting for power circuits as shown on drawing				
9.4.17		2,5mm ² housewire (Red)	m	800		
9.4.18		2,5mm ² housewire (White)	m	800		
9.4.19		2,5mm ² housewire (Blue)	m	800		
9.4.20		2,5mm ² housewire (Black)	m	800		
9.4.21		2,5mm ² housewire - earthing (Green/Yellow)	m	800		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
		<u>ELECTRICAL WORKS</u>				
		<u>Lighting</u>				
		<u>Note:</u> The light fittings shall be the ceiling mount type and must be supplied with about 2m length flexible cord and a plug-top, with capabilities of the cord being removed and directly wire the fitting				
9.4.22		Supply and installation of 5A unswitched socket outlet complete with PVC round box	ea	35		Rate Only
9.4.23		Supply and install of one way single lever flush type light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to cabtree.	ea			
9.4.24		Supply and install of one way double lever flush type light switch.	ea	1		
9.4.25		Supply and install of dimmable flush type light switch light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to Legrand.	ea			
9.4.26		Supply and install 360° PIR Occupancy sensor. Equal or similar approved to Legrand.	ea	2		
9.4.27		600x 600mm 25W LED ceiling mount panel light as detailed on drawing:	ea	35		
9.4.28		600x 600mm 25W LED ceiling mount panel light fitted with 60minutes emergency kit as detailed on drawing:	ea	5		
		<u>Testing and Commissioning</u>				
9.4.29		Allowance for testing and commissioning accordance with SANS 10142-1.	sum	1		
		<u>9th Floor :Think Tank</u>				
		<u>Existing Distribution Board works</u>				
		<u>Note:</u> Supply and installation of new circuits in the existing 9th floor distribution board as indicated on drawing number:001-E-LA-0008-01. This shall include finding the spare spaces, installation of new miniature circuit breakers matching the existing specification (Schneider Electric) labelling and updating of the existing distribution boards legends (legend shall be laminated and stuck inside the DB doors.				
9.4.30		Supply and Installation of 63A, 6kA Din mount single phase miniature earth leakage unit. Equal or similar approved to Schneider Electric.	ea	3		
9.4.31		Supply and Installation of 20A, 6kA Din mount equal or similar approved to Schneider Electric single pole miniature circuit breaker.	ea	18		
		<u>Conduiting</u>				
		<u>Note:</u> Conduiting works shall include finding suitable routes for securing/installation of conduits in the existing ceiling voids. The new conduiting shall be ran from the existing distribution boards to the existing and or new powerskirting via the existing ceiling space.				
9.4.32		Supply and installation of 20mm PVC conduit	m	30		
9.4.33		Conduit installation accessories including end-caps,saddles,couplings, adaptors, bends, round boxes+lids,junction boxes, push-in glands,screws, PVC glue	ea	1		
		<u>Powerskirting</u>				
		<u>Supply and install 3 tier PVC grey power skirting trunking c/w lids, ends,bends joints and spacers all firmly secured to the relevant walls as shown on drawing:001-E-LA-0007-01. (Similar specification to the existing powerskirting).The rates shall include all the mounting screws and accessories.</u>				
9.4.34		Straight Length	m	60		
9.4.35		Joints	ea	30		
9.4.36		Internal elbow	ea	7		
9.4.37		External elbow	ea	1		
9.4.38		Flat elbow	ea			Rate Only
9.4.39		Flat Junction	ea			Rate Only
9.4.40		End caps	ea	5		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty	Rate	Amount
		<u>ELECTRICAL WORKS</u>				
		<u>Power</u>				
		<u>Note:</u> Supply and installation of standard and shaved earth pin /dedicated socket outlets on powerskirting in accordance with SANS 10142-1 and TPD-001-EL&PSPEC Technical specification for electrical installations to building other than dwelling houses and the latest edition and amendments as shown on drawing: 001-E-LA-0007-01. Allowance shall include circuits labelling				
9.4.41		16A Powerskirting mounted single switched socket outlets	ea	21		
9.4.42		16A Shaved earth pin/dedicated socket outlets mounted on powerstking (Red)	ea	15		
9.4.43		20A Recess mount 220V Cordgrip Isolator	ea	1		
		16A Surface mounted 220V standard switched socket outlets	ea			Rate Only
9.4.44		16A Standard flush mounted 220V single switched socket outlets	ea	1		
9.4.45		20A, 220V Surface mounted single phase Isolator switch (in ceiling void)	ea	2		
9.4.46		Supply and installation of 16A underdesk plug modules comprising of two standard and one dedicated switched socket outlets. The modules shall be provided with a 3m pluggable 1,5mm ² flexible cord +16A fixed on the cord plug top	ea			Rate Only
9.4.47		Supply and installation of equal or similar approved to Legrand 4 compartment flush mounted carpet floor boxes comprising of standard SSO + Dedicated shaved Earth pin SSO and 2 x Comms points c/w flush metal mounting box and clip-on lid.	ea	1		
		<u>ICT</u>				
		<u>NOTE:</u> <u>ICT</u> <u>Note:</u> Switching network equipment/switch to be connected via fiber uplink, and all Power Over Ethernet (POE) ready devices. CAT6/CAT6e physical cabling shall be from network switch to terminating LAN ethernet network points				
9.4.48		Supply and installation of Ethernet CAT6 twisted shielded cable.	m	239		
9.4.49		Supply and installation of RJ45 connector	ea	27		
9.4.50		Supply and installation of RJ45 CAT6 Shuttered Data point into a data/comms powerskirting compartment c/w holding bracket, cover and accessories.	ea	6		
9.4.51		Supply and installation of RJ11 CAT6 Telephone point into a data/comms powerskirting compartment c/w cradle holding bracket, cover and accessories.	ea	2		
9.4.52		<u>Wiring</u> <u>Note:</u> Wiring shall be safely pulled through PVC conduit from the existing electrical distribution board via ceiling space to the powerskirting for power circuits as shown on drawing:001-E-LA-0007-01.				
9.4.53		2,5mm ² housewire (Red)	m	200		
9.4.54		2,5mm ² housewire (White)	m	200		
9.4.55		2,5mm ² housewire (Blue)	m	200		
9.4.56		2,5mm ² housewire (Black)	m	200		
9.4.57		2,5mm ² housewire - earthing (Green/Yellow)	m	200		
		<u>Lighting</u>				
		<u>Note:</u> The light fittings shall be the ceiling mount type and must be supplied with about 2m length flexible cord and a plug-top, with capabilities of the cord being removed and directly wire the fitting				
9.4.58		Supply and installation of 5A unswitched socket outlet complete with PVC round box	ea	4		
9.4.59		Supply and install of one way single lever flush type light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to Legrand.	ea	2		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty	Rate	Amount
		<u>ELECTRICAL WORKS</u>				
		<u>Lighting</u>				
9.4.60		Supply and install of one way double lever flush type light switch.	ea			Rate Only
9.4.61		Supply and install of dimmable flush type light switch light switch c/w 4x2 mounting box and cover plate. Equal or similar approved to Legrand.	ea	3		
9.4.62		Supply and install 360° PIR Occupancy sensor. Equal or similar approved to Legrand.	ea	2		
9.4.63		600x 600mm 25W LED ceiling mount panel light as detailed on drawing:	ea	2		
9.4.64		600x 600mm 25W LED ceiling mount panel light fitted with 60minutues emergency kit as detailed on drawing:	ea	2		
9.4.65		Supply and installation of equal or similar approved to recess mount dimmable Beka Rondo LED HE 11W	ea	30		
9.4.66		Supply and installation of equal or similar approved to recess mount dimmable Beka Rondo LED HE 11W c/w emergency kit	ea	5		
9.4.67		<u>Testing and Commissioning</u>				
		Allowance for testing and commissioning accordance with SANS 10142-1.	sum	1		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty	Rate	Amount
10		<u>MECHANICAL WORKS</u> <u>BILL NO.7</u> <u>Mechanical Installation</u> <u>Fire Protection, Water Reticulation, Air conditioning and ventilation systems</u> Allow for all the preliminary and general items required to provide the health & safety, mechanical & electrical installation for this project.				
10.1.1		Site Establishment and clearance at termination of Contract.	sum	1.0		
10.1.2		<u>GUARANTEE AND MAINTENANCE</u> Guarantee and maintenance for the complete installation of mechanical installation including materials and workmanship for a period of TWELVE MONTHS after date of completion	sum	1.0		
10.1.3		<u>REMOVAL OF WASTE</u> Tenderer to allow for all costs associated with cleaning the site of all rubbish and waste caused by this contract	sum	1.0		
10.1.4		<u>COMMISSIONING AND TESTING</u> Allow for testing and commissioning the whole of the Mechanical Installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Consulting Engineer.	sum	1.0		
10.1.5		<u>CERTIFICATE FOR COMPLIANCE</u> Provision for the Certificate of Compliance to be issued on completion of the project.	sum	1.0		
10.1.6		<u>BUILDERS WORK DRAWINGS</u> Provision of Builders work layouts on AutoCAD to indicate exact positions of openings and power points.	sum	1.0		
10.1.7		<u>CONTRACTORS SHOP DRAWINGS</u> Contract shop drawings prepared in accordance with co-ordinated Architectural, Structural & Service layouts.	sum	1.0		
10.1.8		<u>PROGRAMMING OF WORKS</u> Programming of the works to run concurrently with the Builders programme.	sum	1.0		
10.1.9		<u>EQUIPMENT APPROVAL</u> Equipment Procurement Submissions for Engineers Approval.	sum	1.0		
10.1.10		<u>PRESSURE TEST CHILLED WATER PIPING</u> Pressure Testing & Inspection of all chilled water pipework to meet design specifications.	sum	1.0		
10.1.11		<u>SCAFFOLDING</u> Provision of Scaffolding for installation of equipment at high level.	sum	1.0		
10.1.12		<u>OPERATION & MAINTENANCE MANUALS</u> Provision of Operating and Maintenance Manuals as per the Technical Specification.	sum	1.0		
10.1.13		<u>BLUECHEM TREATMENT OF AC EQUIPMENT</u> Provision of BLUECHEM Treatment to all coils and fins of all VRF condenser coils and all chilled water AHU evaporator coils-equal to or similar approved	sum	1.0		
10.1.14		Project hand-over	sum	1.0		
10.1.15		Demolition and Removal of Old Air Handling Units, Filters, Grilles, Louvres, Pipe Insulation and associated materials	sum	1.0		
		<u>AIR HANDLING UNITS</u> Supply; deliver; assembly; connecting to existing chilled water piping, insulation of piping, install and commissioning; Complete with associated vibration mountings, fixing attachments, valves, flanges, etc. for all chilled water air handling units below. This also includes new chilled water piping, pipe fittings, pipe insulation, pipe support structure in the Air Handling Plant Room.				
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
		AIR HANDLING UNITS				
10.1.16		Air Handling Unit-2nd Floor-West - Sizing: Airflow:3165L/s;Cooling Coil Load Capacity: 70kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.17		Air Handling Unit-2nd Floor-Central - Sizing: Airflow:2080L/s;Cooling Coil Load Capacity: 52kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.18		Air Handling Unit-2nd Floor-East - Sizing: Airflow:2770L/s;Cooling Coil Load Capacity: 64kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.19		Air Handling Unit-3rd Floor-East - Sizing: Airflow:2460L/s;Cooling Coil Load Capacity: 55kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.20		Air Handling Unit-4th Floor-East - Sizing: Airflow:2610L/s;Cooling Coil Load Capacity: 72kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.21		Air Handling Unit-5th Floor-East - Sizing: Airflow:2460L/s;Cooling Coil Load Capacity: 61kW; with double skin, units to be demountable for plantroom assembly, with 316 stainless steel coil frames, drain pans to be 316 stainless steel, coils to be copper with aluminium fins, fans to be FCC or BCC, primary and secondary filters, magnahelic gauge to be fitted across secondary filters, all parts to be locally available in South Africa	each	1.0		
10.1.22		<u>New Air Handling Unit Pipework, wiring and associated components in each of the AHU plant rooms on the 2nd floor, 3rd floor, 4th floor, 5th floor.</u> New Air Handling Unit, new chilled water pipework, pipe fittings, pipe insulation, structural pipe supports in each of the Air Handling Plant rooms as part of the installation of the new Air Handling Units in these plant rooms.	sum	1.0		
10.1.23		Self-contained Air conditioner Rooftop Package Unit -Cooling Capacity: 62 kW; Airflow: 1200 L/s; On Coil DB Temperature-32oC; On Coil WB Temperature-26oC; Airflow: 1200 L/s; On Coil DB Temperature-14.5oC; On Coil WB Temperature-14oC; Refrigerant: R407c; External Static Pressure: 200 Pa which complies with following specification installed onto a concrete plinth - Insulated double skin evaporator section; backward curved centrifugal supply air fan; Constant speed motor and drive; Copper/aluminium DX cooling coil; Primary and secondary air filters; 1 x Magnahelic gauge; Stainless steel coil frame and drain pan; Epoxy treatment to components where possible; Separate Condensing unit section; Copper/aluminium condenser coils; Bluchem treatment on all coils; Electrical/control panel; Refrigerant piping; Weatherproof construction.	each	1.0		
		<u>Split Type VRF Air Conditioning Units</u> <u>Supply: deliver; installation; connecting to refrigerant pipework and duct work, insulation of refrigerant piping, install and commissioning; Complete with associated vibration mountings, fixing attachments, galvanised steel hanger rods, valves, flanges, etc. for all chilled water air handling units below</u>				
10.1.24		AC Split type VRF 67.2 kW Cooling Capacity Condenser unit -LG MultiV5 ARUM240LTE5 - equal or similar approved	each	1.0		
10.1.25		AC Split type DX Coil Ceiling Cassette Evaporator Unit for Ground Floor Room G1-Canteen-LG ARNU24GBGA4 - equal or similar approved	each	3.0		
10.1.26		AC Split type DX Coil Ceiling Casette Evaporator Unit for Ground Floor Room G2-Waiting Area-LG ARNU15GTQC4 - equal or similar approved	each	1.0		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
10.1.27		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G3-LG ARNU18GTQC4 - equal or similar approved	each	2.0		
10.1.28		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G4-LG ARNU15GTQC4 - equal or similar approved	each	2.0		
10.1.29		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G5-LG ARNU15GTQC4 - equal or similar approved	each	1.0		
10.1.30		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G6-LG ARNU15GTQC4 - equal or similar approved	each	1.0		
10.1.31		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G7-LG ARNU18GTQC4 - equal or similar approved	each	1.0		
10.1.32		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G8-LG ARNU15GTQC4 - equal or similar approved	each	1.0		
10.1.33		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Boardroom Ground Floor Room G9-LG ARNU15GTQC4 - equal or similar approved	each	2.0		
10.1.34		AC Split type DX Coil Ceiling Cassette Evaporator Unit-for Office on North side, Ground Floor Room G16-LG M10EJH NJ0-9000 BTU Indoor and Outdoor Unit M10EJH UJ0 including wall mounted control panel- equal or similar approved	each	1.0		
10.1.35		AC Split type DX Coil High Static Ducted Unit Evaporator Unit-for 9th Floor Think Tank Room-LG-ARNU18GBHA4-18 000 BTU Indoor Unit - equal or similar approved	each	1.0		
10.1.36		AC Split type DX Coil High Static Ducted Unit Evaporator Unit-for 9th Floor Think Tank Room-LG-ARNU24GBHA4 24 000 BTU Indoor Unit - equal or similar approved	each	1.0		
10.1.37		AC Split type DX Coil Ceiling Cassette Unit Evaporator Unit-for 9th Floor Board Room-LG-ARNUGTQC4-18 000 BTU Indoor Unit - equal or similar approved	each	1.0		
10.1.38		AC Split type DX Coil Condenser Outdoor Unit 9th Floor-LG ARUN080LSS0 - equal or similar approved	each	1.0		
10.1.39		Ø260mm x Ø150mm Round Main Duct Concentric Reducer Piece as shown in drawing	each	1.0		
10.1.40		Ø180mm x Ø100mm Round Main Duct Concentric Reducer Piece as shown in drawing	each	1.0		
10.1.41		Ø250mm x Ø150mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
10.1.42		Ø260mm Main Round Duct as shown in drawing	m	2.0		
10.1.43		Ø220mm Main Round Duct as shown in drawing	m	2.0		
10.1.44		Ø180mm Main Round Duct as shown in drawing	m	11.0		
10.1.45		Ø150mm Main Round Duct as shown in drawing	m	11.0		
10.1.46		Ø100mm Main Round Duct as shown in drawing	m	4.0		
10.1.47		Ø180mm Round Branch Duct 90o elbow in horizontal plane	each	1.0		
10.1.48		Ø150mm Round Branch Duct 90o elbow in horizontal plane	each	1.0		
10.1.49		Ø100mm Round Branch Duct 90o elbow in horizontal plane	each	1.0		
10.1.50		Ø250mm Round Insulated Branch Duct as shown in drawing	m	4.0		
10.1.51		Ø200mm Round Insulated Branch Duct as shown in drawing	m	10.0		
10.1.52		Ø150mm Round Insulated Branch Duct as shown in drawing	m	4.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
10.1.53		Ø250mm Round Insulated Branch Duct 90o elbow in horizontal plane	each	1.0		
10.1.54		Ø200mm Round Insulated Branch Duct 90o elbow in horizontal plane	each	3.0		
10.1.55		Ø150mm Round Insulated Branch Duct 90o elbow in horizontal plane	each	1.0		
10.1.56		Ø260mm Round to Square 300mm x 300mm Duct Transition Piece	each	1.0		
10.1.57		300mm x 300mm Filter duct box as indicated on drawing	each	1.0		
10.1.58		Washable Primary Air Filter- 295mm x 295mm x 50mm on Ninth Floor - Trox WP-PS-295 x 295 x 50 - equal or similar approved	each	1.0		
10.1.59		Aluminium Weather Louver for fresh air to outdoor processing unit as per drawing - Trox-AWG-585x495 - equal or simialr approved	each	1.0		
10.1.60		Inline Ducted Fan for outdoor fresh air introduction on 9th floor - Donkin CDC 200/0.8 - equal or similar approved	each	1.0		
10.1.61		Fan Sound Attenuator on ninth floor as per drawing - Donkin Sonax Circular 200-315 - equal or similar approved	each	2.0		
10.1.62		Ceiling Extractor Fan on 9th floor in Kitchen as per drawing - Expelair CMF741 - equal or similar approved	each	1.0		
10.1.63		Ø250mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
10.1.64		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
10.1.65		Ø200mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	4.0		
10.1.66		Ø180mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
10.1.67		Ø150mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
10.1.68		Ø100mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
10.1.70		Square Constant Volume Plate Diffuser with Circular face plate with 175mm neck- Trox DCV/0/175/0/RAL9016 on Ninth Floor Think Tank-equal or similar approved	each	4.0		
10.1.71		Square Constant Volume Plate Diffuser with Circular face plate with 150mm neck- Trox DCV/0/150/0/RAL9016-equal or similar approved	each	52.0		
10.1.72		Square Constant Volume Plate Diffuser with Circular face plate with 175mm neck- Trox DCV/0/175/0/RAL9016-equal or similar approved	each	59.0		
10.1.73		Square Constant Volume Plate Diffuser with Circular face plate with 200mm neck- Trox DCV/0/200/0/RAL9016-equal or similar approved	each	29.0		
10.1.74		Square Constant Volume Plate Diffuser with Circular face plate with 250mm neck- Trox DCV/0/250/0/RAL9016-equal or similar approved	each	10.0		
10.1.75		Square Ceiling Diffuser with 137mm neck- Trox ADLQ-2E - 244X244- installed on the 9th floor in new Boardroom as shown on drawing -equal or similar approved	each	1.0		
10.1.76		Square Ceiling Diffuser with 137mm neck- Trox ADLQ-4 - 244X244- installed on the 9th floor in Waiting Area as shown on drawing -equal or similar approved	each	1.0		
10.1.77		Square 400x400 Return Air Grille - Trox AE-400x400- equal or similar approved	each	4.0		
10.1.78		Steel Extract Disc Valve- Trox-LVS/200/P0/RAL9010-equal or similar approved	each	6.0		
10.1.79		Steel Supply Disc Valve- Trox-LVS/150/P0/RAL9010-equal or similar approved	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
10.2		<u>MECHANICAL WORKS</u>				
10.2.1		Door Grilles Aluminium-Trox-AGS-T/350x350 - equal or similar approved - Door grilles to be installed on Ground floor as indicated on drawing.	each	3.0		
10.2.2		Door Grilles Aluminium-Trox-AGS-T/400x550 - equal or similar approved - Door grilles to be installed on Ground floor as indicated on drawing.	each	3.0		
10.2.3		Door Grilles Aluminium-Trox-AGS-T/400x400 - equal or similar approved - Door grilles to be installed on Mezzanine floor Filing Area as indicated on drawing.	each	1.0		
10.2.4		Door Grilles Aluminium-Trox-AGS-T/400x550 - equal or similar approved - Door grilles to be installed on 2nd floor as indicated on drawing.	each	11.0		
10.2.5		Door Grilles Aluminium-Trox-AGS-T/400x550 - equal or similar approved - Door grilles to be installed on 3rd floor as indicated on drawing.	each	7.0		
10.2.6		Door Grilles Aluminium-Trox-AGS-T/400x550 - equal or similar approved - Door grilles to be installed on 4th floor as indicated on drawing.	each	7.0		
10.2.7		Door Grilles Aluminium-Trox-AGS-T/400x550 - equal or similar approved - Door grilles to be installed on 5th floor as indicated on drawing.	each	5.0		
10.2.8		Door Grilles Aluminium-Trox-AGS-T/300x450 - equal or similar approved - Door grilles to be installed on 9th floor kitchen as indicated on drawing.	each	1.0		
10.2.9		EXPELAIR GX12 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Ground Floor in Bathroom area as indicated on drawing	each	1.0		
10.2.10		EXPELAIR GX9 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Ground Floor in G15-Filing area as indicated on drawing	each	1.0		
10.2.11		EXPELAIR GX9 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Mezzanine in M1-Filing area as indicated on drawing	each	1.0		
10.2.12		EXPELAIR GX12 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Second Floor in Existing Kitchen on Southern Passageway, Existing Male Ablution on Western passageway, HR Kitchen on Northern Passageway, Kitchen on Eastern Passage Way area as indicated on drawing	each	4.0		
10.2.13		EXPELAIR XID 150 (or equal approved) Ducted Extraction Fan with mounting kits including installation thereof on Second Floor in Existing Female Ablution on Eastern Passage way, Existing Female Ablution, Existing Male Ablution, Existing Paraplegic Ablution on Eastern Passage way area as indicated on drawing	each	4.0		
10.2.14		EXPELAIR CMF-271 (or equal approved) Ceiling Mounted Fan with mounting kits and Ø150mm flexible ductwork including installation thereof on Third Floor in Paraplegic Ablution on Eastern passageway of building area as indicated on drawing.	each	1.0		
10.2.15		EXPELAIR XID 150 (or equal approved) Ducted Extraction Fan with mounting kits including installation thereof on Third Floor in Existing Female Ablution and Male Ablution on Eastern Passage way, area as indicated on drawing	each	2.0		
10.2.16		EXPELAIR GX9 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Third Floor in Existing Kitchen on Eastern Passage Way area as indicated on drawing.	each	1.0		
10.2.17		EXPELAIR GX12 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Fourth Floor in Kitchen on Eastern Passage Way area as indicated on drawing.	each	1.0		
10.2.18		EXPELAIR GX9 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Fourth floor Kitchen on Northern Passageway in central area Passageway areas as indicated on drawing	each	1.0		
10.2.19		EXPELAIR CMF-271 (or equal approved) Ceiling Mounted Fan with mounting kits and Ø150mm flexible ductwork including installation thereof on Fourth Floor Eastern side of Northern Passage Way on of building area as indicated on drawing.	each	1.0		
10.2.20		EXPELAIR XID 150 (or equal approved) Ducted Extraction Fan with mounting kits including installation thereof on Fourth Floor in Existing Female Ablution, Male Ablution and Paraplegic Ablution on Eastern Passage way, area as indicated on drawing	each	3.0		
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
10.1.21		EXPELAIR GX9 (or equal approved) Window Mounted Fan with mounting kits including installation thereof on Fifth Floor in Existing Kitchen on Eastern Passage Way area as indicated on drawing.	each	1.0		
10.2.22		EXPELAIR XID 150 (or equal approved) Ducted Extraction Fan with mounting kits including installation thereof on Fifth Floor in Existing Female Ablution, Male Ablution and Paraplegic Ablution on Eastern Passage way, area as indicated on drawing	each	3.0		
10.2.23		EXPELAIR CMF-271 (or equal approved) Ceiling Mounted Fan with mounting kits and Ø150mm flexible ductwork including installation thereof on Ninth Floor in kitchen of building area as indicated on drawing.	each	1.0		
10.2.24		Donkin CDC 200/0.8 inline duct mounted fan on Ninth floor outdoor air duct - equal or similar approved	each	1.0		
10.2.25		Donkin Sonax 200-315 Sound attenuator on either side of Donkin CDC 200/0.8 on Ninth floor - equal or similar approved	each	2.0		
		<u>Manufacture, Supply Install, Testing and Commissioning of all HVAC indoor controllers.</u>				
10.2.26		AC DX split type Air Conditioner Wired Remote Controller for G1-Canteen-LG PREMTB001 (white)-equal or similar approved	each	2.0		
10.2.27		AC DX split type Air Conditioner Wired Remote Controller for G2-Waiting Area-LG PREMTB001(white)-equal or similar approved	each	1.0		
10.2.28		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G3-LG PREMTB001 (white)-equal or similar approved	each	2.0		
10.2.29		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G4-LG PREMTB001(white)-equal or similar approved	each	2.0		
10.2.30		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G5-LG PREMTB001(white)-equal or similar approved	each	1.0		
10.2.31		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G6-LG PREMTB001(white)-equal or similar approved	each	1.0		
10.2.32		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G7-LG PREMTB001(white)-equal or similar approved	each	1.0		
10.2.33		AC DX split type Air Conditioner Wired Remote Controller for Boardroom G8-LG PREMTB001(white)-equal or similar approved	each	1.0		
10.2.34		AC split type Type Air Conditioner Wired Remote Controller for 9th Floor Think Tank room-Daikin-equal or similar approved	each	2.0		
10.2.35		AC split type Type Air Conditioner Wired Remote Controller for 9th Floor Boardroom daikin-equal or similar approved	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty			
11		<u>MECHANICAL WORKS</u>					
		REFRIGERANT PIPING As per Specification: Supply, deliver, install, pressure test and commission as per specification the following refrigerant piping complete with external ARMAFLEX insulation including hangers, straps, supports, clamps and necessary accessories, as per tender specifications and drawings					
		11.1.1	Ø 6.35 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	27.0		
		11.1.2	Ø 12.7 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	27.0		
		11.1.3	Ø 6.35 mm Bends 900	each	35.0		
		11.1.4	Ø 12.7 mm Bends 900	each	35.0		
		11.1.5	Ø 9,52 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	40.0		
		11.1.6	Ø 19,05 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	12.0		
		11.1.7	Ø 9.52 mm Bends 900	each	39.0		
		11.1.8	Ø 19,05.7 mm Bends 900	each	21.0		
		11.1.9	Ø 15,88 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	33.0		
		11.1.10	Ø 22,2 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	10.0		
		11.1.11	Ø 15,88 mm Bends 900	each	28.0		
		11.1.12	Ø 22,2 mm Bends 900	each	12.0		
		11.1.13	Ø 28,58 mm Straight copper piping include for 3/4" thick ARMAFLEX insulation, and all associated accessories	m	18.0		
		11.1.14	Ø 28,58 mm Bends 900	each	8.0		
		11.1.15	Class 4 PVC Piping with 3/4" thick ARMAFLEX Insulation and mounting kit	m	125.0		
			Manufacturer, Supply, Delivery, Installation, Pressure testing, including all				
			<u>Ground Floor (Canteen, Waiting Area and Boardrooms) Outdoor Air Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Outdoor Air Unit</u>				
		11.1.16	Ø500mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in vertical plane	each	2.0		
		11.1.17	Ø500mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.18	Ø390mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.19	Ø320mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.20	Ø260mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.21	Ø240mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.22	Ø210mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.23	Ø170mm Insulated and Externally cladded Round Main Outdoor Air Duct 90o elbow in horizontal plane	each	1.0		
		11.1.24	Ø500mm Insulated and Externally cladded Round Main Outdoor Air Duct	m	13.5		
11.1.25	Ø460mm Insulated and Round Main Outdoor Air Duct	m	2.2				
		TOTAL CARRIED FORWARD TO SECTION SUMMARY	266.50				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
11.1.26		Ø430mm Insulated and Round Main Outdoor Air Duct	m	6.7		
11.1.27		Ø390mm Insulated and Round Main Outdoor Air Duct	m	6.9		
11.1.28		Ø320mm Insulated and Round Main Outdoor Air Duct	m	11.4		
11.1.29		Ø240mm Insulated and Round Main Outdoor Air Duct	m	2.5		
11.1.30		Ø190mm Insulated and Round Main Outdoor Air Duct	m	3.3		
11.1.31		Ø500mm x Ø460mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.32		Ø460mm x Ø430mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.33		Ø430mm x Ø390mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.34		Ø390mm x Ø320mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.35		Ø320mm x Ø240mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.36		Ø260mm x Ø200mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.36		Ø240mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
11.1.37		Ø260mm Insulated Round Branch Outdoor Air Duct	m	6.7		
11.1.38		Ø240mm Insulated Round Branch Outdoor Air Duct	m	6.4		
11.1.39		Ø220mm Insulated Round Branch Outdoor Air Duct	m	4.0		
11.1.40		Ø210mm Insulated Round Branch Outdoor Air Duct	m	16.2		
11.1.41		Ø200mm Insulated Round Branch Outdoor Air Duct	m	13.0		
11.1.42		Ø190mm Insulated Round Branch Outdoor Air Duct	m	11.3		
11.1.43		Ø170mm Insulated Round Branch Outdoor Air Duct	m	5.6		
11.1.44		Ø210mm Insulated Round Flexible duct	m	6.0		
11.1.45		Ø200mm Insulated Round Flexible duct	m	6.0		
11.1.46		Ø190mm Insulated Round Flexible duct	m	8.0		
11.1.47		Ø180mm Insulated Round Flexible duct	m	2.0		
11.1.48		Ø170mm Insulated Round Flexible duct	m	4.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
11.1.49		Ø170mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
11.1.50		Ø180mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
11.1.51		Ø190mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	3.0		
11.1.52		Ø200mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
11.1.53		Ø210mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	3.0		
11.1.54		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
11.1.55		Ø240mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
11.1.56		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
12		<u>Ground Floor (Canteen, Waiting Area, Boardrooms and Male, Female and Paraplegic Ablution Facilities) Outdoor Air Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Outdoor Air Unit</u>				
12.1.1		Ø370mm Round Main Extraction Duct	m	5.8		
12.1.2		Ø270mm Round Main Extraction Duct	m	4.4		
12.1.3		Ø230mm Round Main Extraction Duct	m	1.3		
12.1.4		Ø180mm Round Main Extraction Duct	m	7.4		
12.1.5		Ø270mm Round Extraction Duct 90o elbow in horizontal plane	each	1.0		
12.1.6		Ø180mm Round Extraction Duct 90o elbow in horizontal plane	each	1.0		
12.1.7		Ø370mm x Ø270mm Round Uninsulated Duct Concentric Reducer Piece as shown in drawing	each	1.0		
12.1.8		Ø270mm x Ø230mm Round Uninsulated Duct Concentric Reducer Piece as shown in drawing	each	2.0		
12.1.9		Ø230mm x Ø180mm Round Uninsulated Duct Concentric Reducer Piece as shown in drawing	each	2.0		
12.1.10		Ø180mm Uninsulated Round Flexible duct	m	12.0		
12.1.11		Ø150mm Uninsulated Round Flexible duct	m	2.0		
12.1.12		550 L/s @ 85 Pa 355mm Axial duct mounted extraction fan with foot supports and flexible connectors to connect to sound attenuators- FlaktWoods JM Aerofoil 35JM/16/4/5/26 - 0,075 kW - equal or similar approved	each	1.0		
		<u>Second Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to West Plantroom's Air Handling Unit</u>				
12.1.13		Rectangular Main Duct 480mm x 960mm 90o elbow in vertical plane	each	1.0		
12.1.14		Rectangular Main Duct 480mm x 960mm 90o elbow in horizontal plane	each	4.0		
12.1.15		Rectangular Main Duct 480mm x 960mm	m	36.0		
12.1.16		Rectangular Main Duct Transition Piece - (480mm x 960mm) to (480mm x 870mm)	each	1.0		
12.1.17		Rectangular Main Duct 480mm x 870mm	m	4.2		

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
12.1.18		Rectangular Main Duct Transtion Piece - (480mm x 870mm) to (480mm x 820mm)	each	1.0		
12.1.19		Rectangular Main Duct 480mm x 820mm	m	4.0		
12.1.20		Rectangular Main Duct Transtion Piece - (480mm x 820mm) to (480mm x 750mm)	each	1.0		
12.1.21		Rectangular Main Duct 480mm x 750mm	m	5.4		
12.1.22		Rectangular Main Duct Transtion Piece - (480mm x 750mm) to (480mm x 720mm)	each	1.0		
12.1.23		Rectangular Main Duct 480mm x 720mm	m	3.3		
12.1.24		Rectangular Main Duct Transtion Piece - (480mm x 720mm) to (480mm x 680mm)	each	1.0		
12.1.25		Rectangular Main Duct 480mm x 680mm	m	4.9		
12.1.26		Rectangular Main Duct Transtion Piece - (480mm x 680mm) to (480mm x 610mm)	each	1.0		
12.1.27		Rectangular Main Duct 480mm x 610mm	m	5.4		
12.1.28		Rectangular Main Duct Transtion Piece - (480mm x 610mm) to (480mm x 550mm)	each	1.0		
12.1.29		Rectangular Main Duct 480mm x 550mm	m	3.3		
12.1.30		Rectangular Main Duct Transtion Piece - (480mm x 550mm) to (440mm x 480mm)	each	1.0		
12.1.31		Rectangular Main Duct 440mm x 480mm	m	4.2		
12.1.32		Rectangular Main Duct Transtion Piece - (440mm x 480mm) to (390mm x 480mm)	each	1.0		
12.1.33		Rectangular Main Duct 390mm x 480mm	m	5.9		
12.1.34		Rectangular Main Duct Transtion Piece - (390mm x 480mm) to (390mm x 400mm)	each	1.0		
12.1.35		Rectangular Main Duct 300mm x 400mm	m	3.1		
12.1.36		Rectangular Main Duct Transtion Piece - (300mm x 400mm) to (300mm x 320mm)	each	1.0		
12.1.37		Rectangular Main Duct 300mm x 320mm	m	3.2		
12.1.38		Rectangular Main Duct Transtion Piece - (300mm x 320mm) to (240mm x 320mm)	each	1.0		
12.1.39		Rectangular Main Duct 240mm x 320mm	m	3.3		
12.1.40		Rectangular Main Duct Transtion Piece - (240mm x 320mm) to (200mm x 220mm)	each	1.0		
12.1.41		Rectangular Main Duct 200mm x 220mm	m	4.0		
12.1.42		<u>Round Branch Duct take-offs from Rectangular Main Duct</u>				
		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	12.0		
12.1.43		Ø240mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
12.1.44		Ø230mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
12.1.45		Ø210mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
12.1.46		Round Branch Duct take-off Round Manual Balancing Dampers				
12.1.47		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	12.0		

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
12.1.48		Ø240mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
12.1.49		Ø230mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
12.1.50		Ø210mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
12.1.51		Ø260mm Round Insulated Branch Duct as shown in drawing (12 pieces of approx 2.8m)	m	28.0		
12.1.52		Ø240mm Round Insulated Branch Duct as shown in drawing	m	3.2		
12.1.53		Ø230mm Round Insulated Branch Duct as shown in drawing	m	1.9		
12.1.54		Ø220mm Round Insulated Branch Duct as shown in drawing	m	3.2		
12.1.56		Ø210mm Round Insulated Branch Duct as shown in drawing	m	3.2		
12.1.57		Ø200mm Round Insulated Branch Duct as shown in drawing	m	34.0		
12.1.58		Ø240mm Round Insulated Flexible duct	m	2.0		
12.1.59		Ø230mm Round Insulated Flexible duct	m	2.0		
12.1.61		Ø220mm Round Insulated Flexible duct	m	2.0		
12.1.62		Ø210mm Round Insulated Flexible duct	m	2.0		
12.1.63		Ø200mm Round Insulated Flexible duct	m	24.0		
12.1.64		Ø260mm x Ø200mm Round Insulated Branch Duct Reducer Piece as shown in drawing	each	12.0		
12.1.65		200mm x 220mm Rectangular Branch Duct take-off from Rectangular Main Duct	each	1.0		
12.1.66		200mm x 220mm Rectangular Branch Duct take-off Rectangular Manual Balancing Damper	each	1.0		
12.1.67		200mm x 220mm Insulated Rectangular Branch Duct transition to Ø230mm take-off from Rectangular Main Duct	each	1.0		
12.1.68		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other ossociated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
13		<u>Second Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Central Plantroom's Air Handling Unit</u>				
13.1.1		Main Branch Leg from Central Plant Room				
13.1.2		Rectangular Main Duct 480mm x 720mm	m	24.0		
13.1.3		Rectangular Main Duct 480mm x 720mm 90o elbow in vertical plane	each	1.0		
13.1.4		Rectangular Main Duct 480mm x 720mm 90o elbow in horizontal plane	each	1.0		
13.1.5		Rectangular Main Duct Splitter Piece - from (480mm x 720mm) to two sections which is (420mm x 480mm) and (420mm x 460mm)	each	1.0		

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
		<u>Western Main Duct Leg from Central AHU</u>				
13.1.6		Rectangular Manual Balancing Damper 420mm x 480mm	each	1.0		
13.1.7		Rectangular Main Duct 420mm x 480mm	m	7.2		
13.1.8		Rectangular Main Duct Transtion Piece - (420mm x 480mm) to (420mm x 440mm)	each	1.0		
13.1.9		Rectangular Main Duct 420mm x 440mm	m	5.2		
13.1.10		Rectangular Main Duct Transtion Piece - (420mm x 440mm) to (390mm x 400mm)	each	1.0		
13.1.11		Rectangular Main Duct 390mm x 400mm	m	7.1		
13.1.12		Rectangular Main Duct Transtion Piece - (390mm x 400mm) to (320mm x 360mm)	each	1.0		
13.1.13		Rectangular Main Duct 320mm x 360mm	m	7.0		
13.1.14		Rectangular Main Duct Transtion Piece - (320mm x 360mm) to (250mm x 300mm)	each	1.0		
13.1.15		Rectangular Main Duct 250mm x 300mm	m	4.7		
		<u>Western Main Duct Leg- Branch Ductwork from Central AHU</u>				
13.1.16		Ø280mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
13.1.17		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
13.1.18		Ø220mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
13.1.19		Ø280mm Round Insulated Branch Duct as shown in drawing	m	1.9		
13.1.20		Ø240mm Round Insulated Branch Duct as shown in drawing	m	5.3		
13.1.21		Ø220mm Round Insulated Branch Duct as shown in drawing	m	9.5		
13.1.22		Ø210mm Round Insulated Branch Duct as shown in drawing	m	3.3		
13.1.23		Ø200mm Round Insulated Branch Duct as shown in drawing	m	3.3		
13.1.24		Ø180mm Round Insulated Branch Duct as shown in drawing	m	22.0		
13.1.25		Ø280mm x Ø240mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
13.1.26		Ø220mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	3.0		
13.1.27		Ø280mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
13.1.28		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	3.0		
13.1.29		Ø180mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	4.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
13.1.30		250mm x 300mm Insulated Rectangular Branch Duct transition to Ø300mm take-off from Rectangular Main Duct as shown in drawing	each	1.0		
13.1.31		Ø230mm Round Flexible duct	m	4.0		
13.1.32		Ø220mm Round Flexible duct	m	2.0		
13.1.33		Ø210mm Round Flexible duct	m	8.0		
		<u>Eastern Main Duct Leg from Central AHU</u>				
13.1.34		Rectangular Manual Balancing Damper 420mm x 460mm	each	1.0		
13.1.35		Rectangular Main Duct 420mm x 460mm	m	3.6		
13.1.36		Rectangular Main Duct Transtion Piece - (420mm x 460mm) to (400mm x 420mm)	each	1.0		
13.1.37		Rectangular Main Duct 400mm x 420mm	m	2.7		
13.1.38		Rectangular Main Duct Transtion Piece - (400mm x 420mm) to (370mm x 380mm)	each	1.0		
13.1.39		Rectangular Main Duct 370mm x 380mm	m	7.3		
13.1.40		Rectangular Main Duct Transtion Piece - (370mm x 380mm) to (350mm x 350mm)	each	1.0		
13.1.41		Rectangular Main Duct 350mm x 350mm	m	4.2		
13.1.42		Rectangular Main Duct Transtion Piece - (350mm x 350mm) to (310mm x 310mm)	each	1.0		
13.1.43		Rectangular Main Duct 310mm x 310mm	m	2.8		
13.1.44		Rectangular Main Duct Transtion Piece - (310mm x 310mm) to (230mm x 310mm)	each	1.0		
13.1.45		Rectangular Main Duct 230mm x 310mm	m	3.8		
13.1.46		Rectangular Main Duct Transtion Piece - (230mm x 310mm) to (180mm x 230mm)	each	1.0		
13.1.47		Rectangular Main Duct 180mm x 230mm	m	3.7		
		<u>Western Main Duct Leg- Branch Ductwork-from Central AHU</u>				
13.1.48		Ø280mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
13.1.49		Ø220mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
13.1.50		Ø210mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
13.1.51		Ø200mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
13.1.52		Ø300mm Round Insulated Branch Duct as shown in drawing	m	1.3		
13.1.53		Ø280mm Round Insulated Branch Duct as shown in drawing	m	4.1		
13.1.54		Ø260mm Round Insulated Branch Duct as shown in drawing	m	8.2		
13.1.55		Ø230mm Round Insulated Branch Duct as shown in drawing	m	6.0		
13.1.56		Ø220mm Round Insulated Branch Duct as shown in drawing	m	4.3		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
13.1.57		Ø210mm Round Insulated Branch Duct as shown in drawing	m	7.0		
13.1.58		Ø190mm Round Insulated Branch Duct as shown in drawing	m	3.5		
13.1.59		Ø300mm x Ø230mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
13.1.60		Ø280mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
13.1.61		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
13.1.62		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
13.1.63		Ø230mm Round Flexible duct	m	4.0		
13.1.64		Ø220mm Round Flexible duct	m	2.0		
13.1.65		Ø210mm Round Flexible duct	m	8.0		
13.1.66		Ø190mm Round Flexible duct	m	4.0		
13.1.67		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other associated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
14		<u>Second Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Eastern Plantroom's Air Handling Unit</u>				
14.1.1		Rectangular Main Duct 480mm x 770mm 90o elbow in vertical plane	each	1.0		
14.1.2		Rectangular Main Duct 480mm x 770mm 90o elbow in horizontal plane	each	4.0		
14.1.3		Rectangular Manual Balancing Damper 480mm x 770mm	each	1.0		
14.1.4		Rectangular Main Duct 480mm x 770mm	m	41.5		
14.1.5		Rectangular Main Duct Transtion Piece - (480mm x 770mm) to (480mm x 720mm)	each	1.0		
14.1.6		Rectangular Main Duct 480mm x 720mm	m	5.4		
14.1.7		Rectangular Main Duct Transtion Piece - (480mm x 720mm) to (480mm x 680mm)	each	1.0		
14.1.8		Rectangular Main Duct 480mm x 680mm	m	7.2		
14.1.9		Rectangular Main Duct Transtion Piece - (480mm x 680mm) to (480mm x 630mm)	each	1.0		
14.1.10		Rectangular Main Duct 480mm x 630mm	m	4.9		
14.1.11		Rectangular Main Duct Transtion Piece - (480mm x 630mm) to (480mm x 570mm)	each	1.0		
14.1.12		Rectangular Main Duct 480mm x 570mm	m	2.6		
14.1.13		Rectangular Main Duct Transtion Piece - (480mm x 570mm) to (480mm x 490mm)	each	1.0		
14.1.14		Rectangular Main Duct 480mm x 490mm	m	3.5		
14.1.15		Rectangular Main Duct Transtion Piece - (480mm x 490mm) to (440mm x 480mm)	each	1.0		
14.1.16		Rectangular Main Duct 440mm x 480mm	m	7.4		
14.1.17		Rectangular Main Duct Transtion Piece - (440mm x 480mm) to (390mm x 480mm)	each	1.0		
14.1.18		Rectangular Main Duct 390mm x 480mm	m	6.5		
14.1.19		Rectangular Main Duct Transtion Piece - (390mm x 480mm) to (310mm x 480mm)	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
14.1.20		Rectangular Main Duct 310mm x 480mm	m	7.6		
14.1.21		Rectangular Main Duct Transtion Piece - (310mm x 480mm) to (310mm x 390mm)	each	1.0		
14.1.22		Rectangular Main Duct 310mm x 390mm	m	5.4		
14.1.23		Rectangular Main Duct Transtion Piece - (310mm x 390mm) to (300mm x 310mm)	each	1.0		
14.1.24		Rectangular Main Duct 300mm x 310mm	m	3.8		
14.1.25		Rectangular Main Duct Transtion Piece - (300mm x 310mm) to (230mm x 230mm)	each	1.0		
14.1.26		Rectangular Main Duct 230mm x 230mm	m	5.0		
		<u>Branch Duct of Main Ductwork from the Eastern AHU Plant room</u>				
14.1.27		Ø290mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
14.1.28		Ø270mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
14.1.29		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	6.0		
14.1.30		Ø250mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
14.1.31		Ø290mm Round Insulated Branch Duct as shown in drawing	m	2.9		
14.1.32		Ø270mm Round Insulated Branch Duct as shown in drawing	m	2.9		
14.1.33		Ø260mm Round Insulated Branch Duct as shown in drawing	m	17.4		
14.1.34		Ø230mm Round Insulated Branch Duct as shown in drawing	m	10.5		
14.1.35		Ø220mm Round Insulated Branch Duct as shown in drawing	m	16.6		
14.1.36		Ø200mm Round Insulated Branch Duct as shown in drawing	m	36.0		
14.1.37		Ø190mm Round Insulated Branch Duct as shown in drawing	m	33.0		
14.1.38		Ø250mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	4.0		
14.1.39		Ø270mm x Ø220mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
14.1.40		Ø290mm x Ø220mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
14.1.41		230mm x 300mm Insulated Rectangular Branch Duct transition to Ø250mm take-off from Rectangular Main Duct as shown in drawing	each	1.0		
14.1.42		Ø290mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
14.1.43		Ø270mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
14.1.44		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	6.0		
14.1.45		Ø250mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	4.0		
14.1.46		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
14.1.47		Ø200mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	6.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
14.1.48		Ø190mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	5.0		
14.1.49		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other ossociated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
		<u>Third Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Eastern Plantroom's Air Handling Unit</u>				
14.1.50		Rectangular Main Duct 480mm x 700mm 90o elbow in vertical plane	each	1.0		
14.1.51		Rectangular Main Duct 480mm x 700mm 90o elbow in horizontal plane	each	4.0		
14.1.52		Rectangular Manual Balancing Damper 480mm x 700mm	each	1.0		
14.1.53		Rectangular Main Duct 480mm x 700mm	m	40.0		
14.1.54		Rectangular Main Duct Transtion Piece - (480mm x 700mm) to (480mm x 680mm)	each	1.0		
14.1.55		Rectangular Main Duct 480mm x 680mm	m	7.4		
14.1.56		Rectangular Main Duct Transtion Piece - (480mm x 680mm) to (480mm x 650mm)	each	1.0		
14.1.57		Rectangular Main Duct 480mm x 650mm	m	3.6		
14.1.58		Rectangular Main Duct Transtion Piece - (480mm x 650mm) to (480mm x 610mm)	each	1.0		
14.1.59		Rectangular Main Duct 480mm x 610mm	m	4.9		
14.1.60		Rectangular Main Duct Transtion Piece - (480mm x 610mm) to (480mm x 570mm)	each	1.0		
14.1.61		Rectangular Main Duct 480mm x 570mm	m	3.6		
14.1.62		Rectangular Main Duct Transtion Piece - (480mm x 570mm) to (480mm x 550mm)	each	1.0		
14.1.63		Rectangular Main Duct 480mm x 550mm	m	3.8		
14.1.64		Rectangular Main Duct Transtion Piece - (480mm x 550mm) to (480mm x 490mm)	each	1.0		
14.1.65		Rectangular Main Duct 480mm x 490mm	m	7.3		
14.1.66		Rectangular Main Duct Transtion Piece - (480mm x 490mm) to (440mm x 460mm)	each	1.0		
14.1.67		Rectangular Main Duct 440mm x 460mm	m	8.0		
14.1.68		Rectangular Main Duct Transtion Piece - (440mm x 460mm) to (420mm x 440mm)	each	1.0		
14.1.69		Rectangular Main Duct 420mm x 440mm	m	5.1		
14.1.70		Rectangular Main Duct Transtion Piece - (420mm x 440mm) to (370mm x 440mm)	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
14.1.71		Rectangular Main Duct 370mm x 440mm	m	3.4		
14.1.72		Rectangular Main Duct Transtion Piece - (370mm x 440mm) to (340mm x 370mm)	each	1.0		
14.1.73		Rectangular Main Duct 340mm x 370mm	m	4.2		
14.1.74		Rectangular Main Duct Transtion Piece - (340mm x 370mm) to (300mm x 300mm)	each	1.0		
14.1.75		Rectangular Main Duct 300mm x 300mm	m	4.0		
14.1.76		Rectangular Main Duct Transtion Piece - (300mm x 300mm) to (240mm x 240mm)	each	1.0		
14.1.77		Rectangular Main Duct 240mm x 240mm	m	5.4		
14.1.78		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	6.0		
14.1.79		Ø240mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
14.1.1.80		Ø220mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
14.1.81		Ø210mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	4.0		
14.1.82		Ø260mm Round Insulated Branch Duct as shown in drawing	m	22.8		
14.1.83		Ø240mm Round Insulated Branch Duct as shown in drawing	m	2.9		
14.1.84		Ø210mm Round Insulated Branch Duct as shown in drawing	m	11.6		
14.1.85		Ø200mm Round Insulated Branch Duct as shown in drawing	m	47.0		
14.1.86		Ø160mm Round Insulated Branch Duct as shown in drawing	m	29.6		
14.1.87		Ø260mm x Ø200mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	7.0		
14.1.88		Ø240mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
14.1.89		Ø210mm x Ø160mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	4.0		
14.1.90		Ø220mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
14.1.91		240mm x 240mm Insulated Rectangular Branch Duct transition to Ø260mm take-off from Rectangular Main Duct as shown in drawing	each	1.0		
14.1.92		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	6.0		
14.1.93		Ø200mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	7.0		
14.1.94		240mm x 240mm Rectangular Branch Duct Manual Balancing Damper as shown in drawing	each	1.0		
14.1.95		Ø200mm Round Flexible duct	m	28.0		
14.1.96		Ø190mm Round Flexible duct	m	3.0		
14.1.97		Ø160mm Round Flexible duct	m	15.0		
14.1.98		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other ossociated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty			
15		<u>MECHANICAL WORKS</u>					
		<u>Fourth Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Eastern Plantroom's Air Handling Unit</u>					
		15.1.1	Rectangular Main Duct 480mm x 750mm 90o elbow in vertical plane	each	1.0		
		15.1.2	Rectangular Main Duct 480mm x 750mm 90o elbow in horizontal plane	each	4.0		
		15.1.3	Rectangular Manual Balancing Damper 480mm x 700mm	each	1.0		
		15.1.4	Rectangular Main Duct 480mm x 750mm	m	40.0		
		15.1.5	Rectangular Main Duct Transtion Piece - (480mm x 750mm) to (480mm x 680mm)	each	1.0		
		15.1.6	Rectangular Main Duct 480mm x 680mm	m	3.7		
		15.1.7	Rectangular Main Duct Transtion Piece - (480mm x 680mm) to (480mm x 650mm)	each	1.0		
		15.1.8	Rectangular Main Duct 480mm x 650mm	m	6.2		
		15.1.9	Rectangular Main Duct Transtion Piece - (480mm x 650mm) to (480mm x 570mm)	each	1.0		
		15.1.10	Rectangular Main Duct 480mm x 570mm	m	7.4		
		15.1.11	Rectangular Main Duct Transtion Piece - (480mm x 570mm) to (480mm x 530mm)	each	1.0		
		15.1.12	Rectangular Main Duct 480mm x 530mm	m	4.1		
		15.1.13	Rectangular Main Duct Transtion Piece - (480mm x 530mm) to (480mm x 490mm)	each	1.0		
		15.1.14	Rectangular Main Duct 480mm x 490mm	m	6.6		
		15.1.15	Rectangular Main Duct Transtion Piece - (480mm x 490mm) to (440mm x 490mm)	each	1.0		
		15.1.16	Rectangular Main Duct 440mm x 490mm	m	5.7		
		15.1.17	Rectangular Main Duct Transtion Piece - (440mm x 490mm) to (440mm x 440mm)	each	1.0		
		15.1.18	Rectangular Main Duct 440mm x 440mm	m	3.2		
		15.1.19	Rectangular Main Duct Transtion Piece - (440mm x 440mm) to (400mm x 440mm)	each	1.0		
		15.1.20	Rectangular Main Duct 400mm x 440mm	m	7.1		
		15.1.21	Rectangular Main Duct Transtion Piece - (400mm x 440mm) to (400mm x 400mm)	each	1.0		
		15.1.22	Rectangular Main Duct 400mm x 400mm	m	3.2		
		15.1.23	Rectangular Main Duct Transtion Piece - (400mm x 400mm) to (300mm x 400mm)	each	1.0		
		15.1.24	Rectangular Main Duct 300mm x 400mm	m	7.0		
		15.1.25	Rectangular Main Duct Transtion Piece - (300mm x 400mm) to (270mm x 300mm)	each	1.0		
		15.1.26	Rectangular Main Duct 270mm x 300mm	m	2.6		
		15.1.27	Rectangular Main Duct Transtion Piece - (270mm x 300mm) to (210mm x 210mm)	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY	1	of 50			

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
15.1.28		Ø280mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
15.1.29		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
15.1.30		Ø250mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
15.1.31		Ø240mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
15.1.32		Ø230mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	3.0		
15.1.33		Ø220mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
15.1.34		Ø210mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
15.1.35		Ø200mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
15.1.36		Ø280mm Round Insulated Branch Duct as shown in drawing	m	5.2		
15.1.37		Ø260mm Round Insulated Branch Duct as shown in drawing	m	3.2		
15.1.38		Ø250mm Round Insulated Branch Duct as shown in drawing	m	5.5		
15.1.39		Ø240mm Round Insulated Branch Duct as shown in drawing	m	2.6		
15.1.40		Ø230mm Round Insulated Branch Duct as shown in drawing	m	16.2		
15.1.41		Ø220mm Round Insulated Branch Duct as shown in drawing	m	6.3		
15.1.42		Ø210mm Round Insulated Branch Duct as shown in drawing	m	11.5		
15.1.43		Ø200mm Round Insulated Branch Duct as shown in drawing	m	2.6		
15.1.44		Ø180mm Round Insulated Branch Duct as shown in drawing	m	29.5		
15.1.45		Ø170mm Round Insulated Branch Duct as shown in drawing	m	33.0		
15.1.46		Ø150mm Round Insulated Branch Duct as shown in drawing	m	9.5		
15.1.47		Ø230mm take-off from Rectangular Main Duct as shown in drawing	each	1.0		
15.1.48		Ø280mm x Ø230mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	2.0		
15.1.49		Ø260mm x Ø210mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.50		Ø250mm x Ø210mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.51		Ø250mm x Ø170mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.52		Ø240mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.53		Ø230mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	2.0		
15.1.54		Ø220mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.55		Ø220mm x Ø170mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.56		Ø210mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
15.1.57		Ø200mm x Ø170mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
15.1.58		Ø280mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
15.1.59		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
15.1.60		Ø250mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
15.1.61		Ø230mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
15.1.62		Ø220mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
15.1.63		Ø210mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
15.1.64		Ø200mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
15.1.65		Ø180mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	7.0		
15.1.66		Ø170mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	6.0		
15.1.67		Ø160mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
15.1.68		Ø150mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	11.0		
15.1.69		210 x 210 Rectangular Manual Duct Damper	each	1.0		
15.1.70		Ø190mm Round Flexible duct	m	2.0		
15.1.71		Ø180mm Round Flexible duct	m	22.0		
15.1.72		Ø170mm Round Flexible duct	m	16.0		
15.1.73		Ø160mm Round Flexible duct	m	4.0		
15.1.74		Ø150mm Round Flexible duct	m	22.0		
15.1.75		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other associated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
16		<u>Fifth Floor Main Ductwork, Transition Pieces, Branch Ducts and Terminal Branches connected to Eastern Plantroom's Air Handling Unit</u>				
16.1.1		Rectangular Main Duct 480mm x 700mm 90o elbow in vertical plane	each	1.0		
16.1.2		Rectangular Main Duct 480mm x 700mm 90o elbow in horizontal plane	each	4.0		
16.1.3		Rectangular Manual Balancing Damper 480mm x 700mm	each	1.0		
16.1.4		Rectangular Main Duct 480mm x 700mm	m	36.8		
16.1.5		Rectangular Main Duct Transtion Piece - (480mm x 700mm) to (480mm x 650mm)	each	1.0		
16.1.6		Rectangular Main Duct 480mm x 650mm	m	7.1		
16.1.7		Rectangular Main Duct Transtion Piece - (480mm x 650mm) to (480mm x 610mm)	each	1.0		
TOTAL CARRIED FORWARD TO SECTION B						

Item	Payment Clause	Discription	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
16.1.8		Rectangular Main Duct 480mm x 610mm	m	3.1		
16.1.9		Rectangular Main Duct Transtion Piece - (480mm x 610mm) to (480mm x 570mm)	each	1.0		
16.1.10		Rectangular Main Duct 480mm x 570mm	m	3.2		
16.1.11		Rectangular Main Duct Transtion Piece - (480mm x 570mm) to (480mm x 530mm)	each	1.0		
16.1.12		Rectangular Main Duct 480mm x 530mm	m	7.2		
16.1.13		Rectangular Main Duct Transtion Piece - (480mm x 530mm) to (480mm x 490mm)	each	1.0		
16.1.14		Rectangular Main Duct 480mm x 490mm	m	3.6		
16.1.15		Rectangular Main Duct Transtion Piece - (480mm x 490mm) to (440mm x 490mm)	each	1.0		
16.1.16		Rectangular Main Duct 440mm x 490mm	m	3.8		
16.1.17		Rectangular Main Duct Transtion Piece - (440mm x 490mm) to (440mm x 460mm)	each	1.0		
16.1.18		Rectangular Main Duct 440mm x 460mm	m	7.4		
16.1.19		Rectangular Main Duct Transtion Piece - (440mm x 460mm) to (440mm x 440mm)	each	1.0		
16.1.20		Rectangular Main Duct 440mm x 440mm	m	3.9		
16.1.21		Rectangular Main Duct Transtion Piece - (440mm x 440mm) to (350mm x 440mm)	each	1.0		
16.1.22		Rectangular Main Duct 350mm x 440mm	m	5.2		
16.1.23		Rectangular Main Duct Transtion Piece - (350mm x 440mm) to (350mm x 360mm)	each	1.0		
16.1.24		Rectangular Main Duct 350mm x 360mm	m	4.9		
16.1.25		Rectangular Main Duct Transtion Piece - (350mm x 360mm) to (300mm x 320mm)	each	1.0		
16.1.26		Rectangular Main Duct 300mm x 320mm	m	5.3		
16.1.27		Rectangular Main Duct Transtion Piece - (300mm x 320mm) to (240mm x 240mm)	each	1.0		
16.1.28		Rectangular Main Duct 240mm x 240mm	m	5.3		
16.1.29		Ø260mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
16.1.30		Ø240mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
16.1.31		Ø230mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	2.0		
16.1.32		Ø240mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	8.0		
16.1.33		Ø210mm Round Branch Duct take-off Piece from Rectangular Main Duct	each	1.0		
16.1.34		Ø270mm Round Insulated Branch Duct as shown in drawing	m	1.7		
16.1.35		Ø260mm Round Insulated Branch Duct as shown in drawing	m	2.9		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
16.1.36		Ø240mm Round Insulated Branch Duct as shown in drawing	m	22.7		
16.1.37		Ø230mm Round Insulated Branch Duct as shown in drawing	m	6.0		
16.1.38		Ø210mm Round Insulated Branch Duct as shown in drawing	m	6.4		
16.1.39		Ø200mm Round Insulated Branch Duct as shown in drawing	m	6.1		
16.1.40		Ø190mm Round Insulated Branch Duct as shown in drawing	m	27.8		
16.1.41		Ø180mm Round Insulated Branch Duct as shown in drawing	m	52.0		
16.1.42		Ø160mm Round Insulated Branch Duct as shown in drawing	m	2.4		
16.1.43		Ø230mm take-off from Rectangular Main Duct as shown in drawing	each	1.0		
16.1.44		210mm x 210mm Insulated Rectangular Branch Duct take-off from Rectangular Main Duct as shown in drawing	m	1.0		
16.1.45		Ø270mm x Ø200mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
16.1.46		Ø260mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	1.0		
16.1.47		Ø240mm x Ø190mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	3.0		
16.1.48		Ø240mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	5.0		
16.1.49		Ø230mm x Ø180mm Round Insulated Branch Duct Concentric Reducer Piece as shown in drawing	each	2.0		
16.1.50		Ø270mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
16.1.51		Ø260mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
16.1.52		Ø240mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	8.0		
16.1.53		Ø230mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	2.0		
16.1.54		Ø210mm Round Branch Duct Round Manual Balancing Damper as shown in drawing	each	1.0		
16.1.55		Ø210mm Round Flexible duct	m	2.0		
16.1.56		Ø200mm Round Flexible duct	m	4.0		
16.1.57		Ø190mm Round Flexible duct	m	14.0		
16.1.58		Ø180mm Round Flexible duct	m	30.0		
16.1.59		Ø160mm Round Flexible duct	m	2.0		
16.1.60		Duct Supports, Duct threaded bar hangers, fasteners, gaskets, sealants and all other associated components required to successfully install all the mentioned ductwork in the area above	sum	1.0		
		TOTAL CARRIED FORWARD TO SECTION SUMMARY				

Item	Payment Clause	Description	Unit	Qty		
		<u>MECHANICAL WORKS</u>				
16.1.61		HVAC System Shop Drawings & As-built Drawings of final HVAC Systems	sum	1.0		
16.1.62		Handover Packs of all HVAC systems installed and constructed as described in Works Information Document	sum	1.0		
16.1.63		<u>Plumbing Works For Potable Water in Ground Floor, Female Ablution, Male Ablution, Paraplegic Ablution, Ground Floor Canteen kitchen</u>				
16.1.64		For the design, supply, delivery, installation testing and Commissioning of the Water reticulation system including connection pipework, supports, hangers, pipe fittings, valves as per the SANS 10252 code.manufacturer's specification and recommendations				
16.1.65		Pipe Lengths				
16.1.66		Pipe, DN 28: copper pipe	m	13.0		
16.1.67		Pipe, DN 22: copper pipe	m	18.0		
16.1.68		Pipe, DN 15: copper pipe	m	15.0		
		<u>Tee fittings</u>				
16.1.69		Equal Tee, DN 15 x DN 15: copper pipe compression fitting	no	6.0		
16.1.70		Equal Tee, DN 22 x DN 22: copper pipe compression fitting	no	9.0		
16.1.71		Reducing Tee, DN 28 x DN 22 x DN28: copper pipe compression fitting	no	2.0		
16.1.72		90 Degrees Fittings				
16.1.73		DN 28, 90 degree bends	no	5.0		
16.1.74		DN 22, 90 degree bends	no	8.0		
16.1.75		DN 15, 90 degree bends	no	5.0		
		<u>Isolating valves</u>				
16.1.76		Brass Gate valve, SABS, DN 28 - With compression fitting ends	no	1.0		
16.1.77		Stop brass stopcock, DN 22	no	11.0		
16.1.78		Plastic-coated aluminium die-cast lever valve, DN 15	no	7.0		
		<u>Reducers</u>				
16.1.79		Reducer, DN 28 x DN 22 brass compression fitting	no	1.0		
16.1.80		Reducer, DN 22 x DN 15 brass compression fitting	no	1.0		
		<u>Pipe Hangers, Fittings, Supports, Saddles</u>	sum	1.0		
16.1.81		Testing and Commissioning	sum	1.0		
16.1.82		Plumbing System Shop Drawings & As-built Drawings of final Plumbing System	sum	1.0		
		TOTAL CARRIED FORWARD TO SECTION B				

Item	Payment Clause	Discription	Page	Amount
		<u>MECHANICAL WORKS SECTION SUMMARY</u>		
		<u>SECTION SUMMARY</u>		
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TRANSNET PORT TERMINALS

TENDER NUMBER: TPT2021/12/2/RFP

DESCRIPTION OF THE WORKS: FOR THE PROVISION OF OFFICES FOR TRANSNET PORT TERMINALS AT 202 ANTON LEMBEDE STREET, DURBAN FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED AS "TPT").

T2.2-24 Service Provider Integrity Pact

Important Note: All potential tenderers must read this document and certify in the RFP Declaration Form that they have acquainted themselves with, and agree with the content.

The contract with the successful tenderer will automatically incorporate this Integrity Pact and shall be deemed as part of the final concluded contract.

INTEGRITY PACT

Between

TRANSNET SOC LTD

Registration Number: 1990/000900/30

("Transnet")

and

The Contractor (hereinafter referred to as the "Tenderer/Service Providers/Contractor")

PREAMBLE

Transnet values full compliance with all relevant laws and regulations, ethical standards and the principles of economical use of resources, fairness and transparency in its relations with its Tenderers / Service Providers/Contractors.

In order to achieve these goals, Transnet and the Tenderer / Service Provider hereby enter into this agreement hereinafter referred to as the "Integrity Pact" which will form part of the Tenderer's / Service Provider's / Contractor's application for registration with Transnet as a vendor.

The general purpose of this Integrity Pact is to agree on avoiding all forms of dishonesty, fraud and corruption by following a system that is fair, transparent and free from any undue influence prior to, during and subsequent to the currency of any procurement and / or reverse logistics event and any further contract to be entered into between the Parties, relating to such event.

All Tenderers / Service Providers / Contractor's will be required to sign and comply with undertakings contained in this Integrity Pact, should they want to be registered as a Transnet vendor.

1 OBJECTIVES

- 1.1 Transnet and the Tenderer / Service Provider / Contractor agree to enter into this Integrity Pact, to avoid all forms of dishonesty, fraud and corruption including practices that are anti-competitive in nature, negotiations made in bad faith and under-pricing by following a system that is fair, transparent and free from any influence / unprejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:
 - a) Enable Transnet to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works, goods and services; and
 - b) Enable Tenderers / Service Providers / Contractors to abstain from bribing or participating in any corrupt practice in order to secure the contract.

2 COMMITMENTS OF TRANSNET

Transnet commits to take all measures necessary to prevent dishonesty, fraud and corruption and to observe the following principles:

- 2.1 Transnet hereby undertakes that no employee of Transnet connected directly or indirectly with the sourcing event and ensuing contract, will demand, take a promise for or accept directly or through intermediaries any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Tenderer, either for themselves or for any person, organisation or third

party related to the contract in exchange for an advantage in the tendering process, Tender evaluation, contracting or implementation process related to any contract.

- 2.2 Transnet will, during the registration and tendering process treat all Tenderers / Service Providers with equity, transparency and fairness. Transnet will in particular, before and during the registration process, provide to all Tenderers / Service Providers the same information and will not provide to any Tenderers / Service Providers / Contractors confidential / additional information through which the Tenderers / Service Providers / Contractors could obtain an advantage in relation to any tendering process.
- 2.3 Transnet further confirms that its employees will not favour any prospective Tenderer in any form that could afford an undue advantage to a particular Tenderer during the tendering stage, and will further treat all Tenderers / Service Providers / Contractors participating in the tendering process.
- 2.4 Transnet will exclude from the tender process such employees who have any personal interest in the Tenderers / Service Providers / Contractors participating in the tendering process.

3 OBLIGATIONS OF THE TENDERER / SERVICE PROVIDER

- 3.1 The Tenderer / Service Provider / Contractor commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its Tender or during any ensuing contract stage in order to secure the contract or in furtherance to secure it and in particular the Tenderer / Service Provider / Contractor commits to the following:
 - a) The Tenderer / Service Provider / Contractor will not, directly or through any other person or firm, offer, promise or give to Transnet or to any of Transnet's employees involved in the tendering process or to any third person any material or other benefit or payment, in order to obtain in exchange an advantage during the tendering process; and
 - b) The Tenderer / Service Provider / Contractor will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any employee of Transnet, connected directly or indirectly with the tendering process, or to any person, organisation or third party related to the contract in exchange for any advantage in the tendering, evaluation, contracting and implementation of the contract.
- 3.2 The acceptance and giving of gifts may be permitted provided that:
 - a) the gift does not exceed R1 000 (one thousand Rand) in retail value;

- b) many low retail value gifts do not exceed R 1 000 within a 12 month period;
 - c) hospitality packages do not exceed R5 000 in value or many low value hospitality packages do not cumulatively exceed R5 000;
 - d) a Tenderer / Service Provider does not give a Transnet employee more than 2 (two) gifts within a 12 (twelve) month period, irrespective of value;
 - e) a Tenderer / Service Provider does not accept more than 1 (one) gift in excess of R750 (seven hundred and fifty Rand) from a Transnet employee within a 12 (twelve) month period, irrespective of value;
 - f) a Tenderer / Service Provider may under no circumstances, accept from or give to, a Transnet employee any gift, business courtesy, including an invitation to a business meal and /or drinks, or hospitality package, irrespective of value, during any Tender evaluation process, including a period of 12 (twelve) months after such tender has been awarded, as it may be perceived as undue and improper influence on the evaluation process or reward for the contract that has been awarded; and
 - g) a Tenderer / Service Provider may not offer gifts, goods or services to a Transnet employee at artificially low prices, which are not available to the public at those prices.
- 3.3 The Tenderer / Service Provider / Contractor will not collude with other parties interested in the contract to preclude a competitive Tender price, impair the transparency, fairness and progress of the tendering process, Tender evaluation, contracting and implementation of the contract. The Tenderer / Service Provider further commits itself to delivering against all agreed upon conditions as stipulated within the contract.
- 3.4 The Tenderer / Service Provider / Contractor will not enter into any illegal or dishonest agreement or understanding, whether formal or informal with other Tenderers / Service Providers / Contractors. This applies in particular to certifications, submissions or non-submission of documents or actions that are restrictive or to introduce cartels into the tendering process.
- 3.5 The Tenderer / Service Provider / Contractor will not commit any criminal offence under the relevant anti-corruption laws of South Africa or any other country. Furthermore, the Tenderer /Service Provider will not use for illegitimate purposes or for restrictive purposes or personal gain, or pass on to others, any information provided by Transnet as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 3.6 A Tenderer / Service Provider / Contractor of foreign origin shall disclose the name and address of its agents or representatives in South Africa, if any, involved directly or indirectly in the registration or tendering process. Similarly, the

Tenderer / Service Provider / Contractor of South African nationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the registration or tendering process.

- 3.7 The Tenderer / Service Provider / Contractor will not misrepresent facts or furnish false or forged documents or information in order to influence the tendering process to the advantage of the Tenderer / Service Provider or detriment of Transnet or other competitors.
- 3.8 The Tenderer / Service Provider / Contractor shall furnish Transnet with a copy of its code of conduct, which code of conduct shall reject the use of bribes and other dishonest and unethical conduct, as well as compliance programme for the implementation of the code of conduct.
- 3.9 The Tenderer / Service Provider / Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4 INDEPENDENT TENDERING

- 4.1 For the purposes of that Certificate in relation to any submitted Tender, the Tenderer declares to fully understand that the word "competitor" shall include any individual or organisation, other than the Tenderer, whether or not affiliated with the Tenderer, who:
 - a) has been requested to submit a Tender in response to this Tender invitation;
 - b) could potentially submit a Tender in response to this Tender invitation, based on their qualifications, abilities or experience; and
 - c) provides the same Goods and Services as the Tenderer and/or is in the same line of business as the Tenderer.
- 4.2 The Tenderer has arrived at his submitted Tender independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium will not be construed as collusive tendering.
- 4.3 In particular, without limiting the generality of paragraph 5 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - a) prices;
 - b) geographical area where Goods or Services will be rendered [market allocation];
 - c) methods, factors or formulas used to calculate prices;
 - d) the intention or decision to submit or not to submit, a Tender;

- e) the submission of a Tender which does not meet the specifications and conditions of the RFP; or
 - f) tendering with the intention of not winning the Tender.
- 4.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the Goods or Services to which his/her tender relates.
- 4.5 The terms of the Tender as submitted have not been, and will not be, disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official Tender opening or of the awarding of the contract.
- 4.6 Tenderers are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to Tenders and contracts, Tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [**NPA**] for criminal investigation and/or may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.
- 4.7 Should the Tenderer find any terms or conditions stipulated in any of the relevant documents quoted in the Tender unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Tender. Any such submission shall be subject to review by Transnet's Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be.

5 DISQUALIFICATION FROM TENDERING PROCESS

- 5.1 If the Tenderer / Service Provider / Contractor has committed a transgression through a violation of section 3 of this Integrity Pact or in any other form such as to put its reliability or credibility as a Tenderer / Service Provider into question, Transnet may reject the Tenderer's / Service Provider's / Contractor's application from the registration or tendering process and remove the Tenderer / Service Provider from its database, if already registered.
- 5.2 If the Tenderer / Service Provider / Contractor has committed a transgression through a violation of section 3, or any material violation, such as to put its reliability or credibility into question. Transnet may after following due procedures and at its own discretion also exclude the Tenderer / Service Provider / Contractor from future tendering processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be

determined by the circumstances of the case, which will include amongst others the number of transgressions, the position of the transgressors within the company hierarchy of the Tenderer / Service Provider / Contractor and the amount of the damage. The exclusion will be imposed for up to a maximum of 10 (ten) years. However, Transnet reserves the right to impose a longer period of exclusion, depending on the gravity of the misconduct.

- 5.3 If the Tenderer / Service Provider / Contractor can prove that it has restored the damage caused by it and has installed a suitable corruption prevention system, or taken other remedial measures as the circumstances of the case may require, Transnet may at its own discretion revoke the exclusion or suspend the imposed penalty.

6 TRANSNET'S LIST OF EXCLUDED TENDERERS (BLACKLIST)

- 6.1 All the stipulations around Transnet's blacklisting process as laid down in Transnet's Supply Chain Policy and Procurement Procedures Manual are included herein by way of reference. Below follows a condensed summary of this blacklisting procedure.
- 6.2 Blacklisting is a mechanism used to exclude a company/person from future business with Transnet for a specified period. The decision to blacklist is based on one of the grounds for blacklisting. The standard of proof to commence the blacklisting process is whether a "*prima facie*" (i.e. on the face of it) case has been established.
- 6.3 Depending on the seriousness of the misconduct and the strategic importance of the Goods/Services, in addition to blacklisting a company/person from future business, Transnet may decide to terminate some or all existing contracts with the company/person as well.
- 6.4 A Service Provider or Contractor to Transnet may not subcontract any portion of the contract to a blacklisted company.
- 6.5 Grounds for blacklisting include: If any person/Enterprise which has submitted a Tender, concluded a contract, or, in the capacity of agent or subcontractor, has been associated with such Tender or contract:
- a) Has, in bad faith, withdrawn such Tender after the advertised closing date and time for the receipt of Tenders;
 - b) has, after being notified of the acceptance of his Tender, failed or refused to sign a contract when called upon to do so in terms of any condition forming part of the Tender documents;

- c) has carried out any contract resulting from such Tender in an unsatisfactory manner or has breached any condition of the contract;
 - d) has offered, promised or given a bribe in relation to the obtaining or execution of the contract;
 - e) has acted in a fraudulent or improper manner or in bad faith towards Transnet or any Government Department or towards any public body, Enterprise or person;
 - f) has made any incorrect statement in a certificate or other communication with regard to the Local Content of his Goods or his B-BBEE status and is unable to prove to the satisfaction of Transnet that:
 - (i) he made the statement in good faith honestly believing it to be correct; and
 - (ii) before making such statement he took all reasonable steps to satisfy himself of its correctness;
 - g) caused Transnet damage, or to incur costs in order to meet the contractor's requirements and which could not be recovered from the contractor;
 - h) has litigated against Transnet in bad faith.
- 6.6 Grounds for blacklisting include a company/person recorded as being a company or person prohibited from doing business with the public sector on National Treasury's database of Restricted Service Providers or Register of Tender Defaulters.
- 6.7 Companies associated with the person/s guilty of misconduct (i.e. entities owned, controlled or managed by such persons), any companies subsequently formed by the person(s) guilty of the misconduct and/or an existing company where such person(s) acquires a controlling stake may be considered for blacklisting. The decision to extend the blacklist to associated companies will be at the sole discretion of Transnet.

7 PREVIOUS TRANSGRESSIONS

- 7.1 The Tenderer / Service Provider /Contractor hereby declares that no previous transgressions resulting in a serious breach of any law, including but not limited to, corruption, fraud, theft, extortion and contraventions of the Competition Act 89 of 1998, which occurred in the last 5 (five) years with any other public sector undertaking, government department or private sector company that could justify

its exclusion from its registration on the Tenderer's / Service Provider's / Contractor's database or any tendering process.

- 7.2 If it is found to be that the Tenderer / Service Provider / Contractor made an incorrect statement on this subject, the Tenderer / Service Provider / Contractor can be rejected from the registration process or removed from the Tenderer / Service Provider / Contractor database, if already registered, for such reason (refer to the Breach of Law Form contained in the applicable RFX document.)

8 SANCTIONS FOR VIOLATIONS

- 8.1 Transnet shall also take all or any one of the following actions, wherever required to:

- a) Immediately exclude the Tenderer / Service Provider / Contractor from the tendering process or call off the pre-contract negotiations without giving any compensation the Tenderer / Service Provider / Contractor. However, the proceedings with the other Tenderer / Service Provider / Contractor may continue;
- b) Immediately cancel the contract, if already awarded or signed, without giving any compensation to the Tenderer / Service Provider / Contractor;
- c) Recover all sums already paid by Transnet;
- d) Encash the advance bank guarantee and performance bond or warranty bond, if furnished by the Tenderer / Service Provider / Contractor, in order to recover the payments, already made by Transnet, along with interest;
- e) Cancel all or any other contracts with the Tenderer / Service Provider; and
- f) Exclude the Tenderer / Service Provider / Contractor from entering into any Tender with Transnet in future.

9 CONFLICTS OF INTEREST

- 9.1 A conflict of interest includes, inter alia, a situation in which:

- a) A Transnet employee has a personal financial interest in a tendering / supplying entity; and
- b) A Transnet employee has private interests or personal considerations or has an affiliation or a relationship which affects, or may affect, or may be perceived to affect his / her judgment in action in the best interest of Transnet, or could affect the employee's motivations for acting in a particular manner, or which could result in, or be perceived as favouritism or nepotism.

- 9.2 A Transnet employee uses his / her position, or privileges or information obtained while acting in the capacity as an employee for:

- a) Private gain or advancement; or
- b) The expectation of private gain, or advancement, or any other advantage accruing to the employee must be declared in a prescribed form.

Thus, conflicts of interest of any Tender committee member or any person involved in the sourcing process must be declared in a prescribed form.

- 9.3 If a Tenderer / Service Provider / Contractor has or becomes aware of a conflict of interest i.e. a family, business and / or social relationship between its owner(s) / member(s) / director(s) / partner(s) / shareholder(s) and a Transnet employee / member of Transnet's Board of Directors in respect of a Tender which will be considered for the Tender process, the Tenderer / Service Provider / Contractor:
- a) must disclose the interest and its general nature, in the Request for Proposal ("RFX") declaration form; or
 - b) must notify Transnet immediately in writing once the circumstances has arisen.
- 9.4 The Tenderer / Service Provider / Contractor shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any committee member or any person involved in the sourcing process, where this is done, Transnet shall be entitled forthwith to rescind the contract and all other contracts with the Tenderer / Service Provider / Contractor.

10 MONITORING

- 10.1 Transnet will be responsible for appointing an independent Monitor to:
- a) Conduct random monitoring of compliance to the provisions of this Integrity Pact for contracts entered into between Transnet and the Tenderer / Service Provider / Contractor for less than R100,000.000 (one hundred million Rand) in value;
 - b) Monitor compliance to the provisions of this Integrity Pact for contracts entered into between Transnet and the Tenderer / Service Provider / Contractor for greater than R100,000.000 (one hundred million Rand) in value; and
 - c) Investigate any allegation of violation of any provisions of this Integrity Pact for contracts entered into between Transnet and the Tenderer / Service Provider / Contractor, irrespective of value.
- 10.2 The Monitor will be subjected to Transnet's Terms of Conditions of Contract for the Provision of Services to Transnet, as well as to Transnet's Service Provider Code of Conduct.

11 EXAMINATION OF FINANCIAL RECORDS, DOCUMENTATION AND/OR ELECTRONIC DATA

For the purpose of Monitoring, as stipulated above, the Monitor shall be entitled to:

- a) Examine the financial records, documentation and or electronic data of Tenderer / Service Provider / Contractor / Transnet. The Tenderer / Service Provider / Transnet shall provide all requested information / documentation / data to the Monitor and shall extend all help possible for the purpose of such examination.

12 DISPUTE RESOLUTION

12.1 Transnet recognises that trust and good faith are pivotal to its relationship with its Tenderer / Service Provider / Contractor. When a dispute arises between Transnet and its Tenderer / Service Provider / Contractor, the parties should use their best endeavours to resolve the dispute in an amicable manner, whenever possible. Litigation in bad faith negates the principles of trust and good faith on which commercial relationships are based. Accordingly, following a blacklisting process as mentioned in paragraph 6 above, Transnet will not do business with a company that litigates against it in bad faith or is involved in any action that reflects bad faith on its part. Litigation in bad faith includes, but is not limited to the following instances:

- a) **Vexatious proceedings:** these are frivolous proceedings which have been instituted without proper grounds;
- b) **Perjury:** where a Tenderer / Service Provider / Contractor make a false statement either in giving evidence or on an affidavit;
- c) **Scurrilous allegations:** where a Tenderer / Service Provider / Contractor makes allegations regarding a senior Transnet employee which are without proper foundation, scandalous, abusive or defamatory; and
- d) **Abuse of court process:** when a Tenderer / Service Provider / Contractor abuses the court process in order to gain a competitive advantage during a Tender process.

13 GENERAL

13.1 This Integrity Pact is governed by and interpreted in accordance with the laws of the Republic of South Africa.

13.2 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the law relating to any civil or criminal proceedings.

13.3 The validity of this Integrity Pact shall cover all the tendering processes and will be valid for an indefinite period unless cancelled by either Party.

13.4 Should one or several provisions of this Integrity Pact turn out to be invalid the remainder of this Integrity Pact remains valid.

13.5 Should a Tenderer / Service Provider / Contractor be confronted with dishonest, fraudulent or corruptive behaviour of one or more Transnet employees, Transnet expects its Tenderer / Service Provider / Contractor to report this behaviour directly to a senior Transnet official / employee or alternatively by using Transnet's "Tip-Off Anonymous" hotline number 0800 003 056, whereby your confidentiality is guaranteed.

TRANSNET PORT TERMINALS

TENDER NUMBER: TPT2021/12/2/RFP

DESCRIPTION OF THE WORKS: FOR THE PROVISION OF OFFICES FOR TRANSNET PORT TERMINALS AT 202 ANTON LEMBEDE STREET FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED AS "TPT").

The Parties hereby declare that each of them has read and understood the clauses of this Integrity Pact and shall a Tenderer by it. To the best of the Parties' knowledge and belief, the information provided in this Integrity Pact is true and correct.