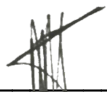


<u>ADDENDUM</u>	No. 01
<u>CONTRACT NUMBER:</u>	JW14427D
<u>CONTRACT TITLE:</u>	GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE AND RENEWAL
<u>SUBJECT</u>	Addendum 1
<u>Date</u>	17 July 2026
<u>Sender</u>	Jonathan Kekana– jonathan.kekana@jwater.co.za

Tenderers are required to incorporate the following documents into the tender document and return the Addendum:

1. Replace Pages 135 & 136 of 530 (BOQ Schedule A: Preliminary & General) of the uploaded PDF tender document with corrected pages attached.
2. Replace Page 148 of 530 (BOQ Schedule H: On Property Plumbing Retrofitting) of the uploaded PDF tender document with corrected pages attached
3. Replace Page 150 of 530 (BOQ Schedule I: Customer Meter Installation) of the uploaded PDF tender document with corrected pages attached.
4. Replace Page 155 of 530 (Scope of Works section) of the uploaded PDF tender document with corrected page attached.
5. Closing Date amended to 12 August 2026 at 10:30

Yours faithfully



20/07/2026

Mabu Manaka

General Manager: Supply Chain Management

Addendum Received

Name of Tenderer:.....

Signatory:.....

Signature:.....

Date:.....

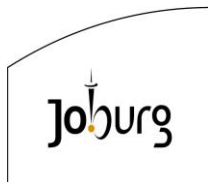
Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Chief Executive Officer and Executive Director),
Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,
Mr Molate Mashifane, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela, Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30



CONTRACT JW14427D
GREATER ORANGE FARM PHASE 3D WATER
INFRASTRUCTURE UPGRADE AND RENEWAL PROJECT
VOLUME 2 CONTRACT PART 3: SCOPE OF WORK



ABBREVIATIONS AND DEFINITIONS

For the purpose of this Contract the following abbreviations shall have the associated meaning:

BEE	:	Black Economic Empowerment
BS	:	British Standard
CE	:	Civil Engineering Works
CESA	:	Shall mean the Consulting Engineers of South African
CETA	:	Shall mean the construction education and training authority
CIDB	:	Construction Industry Development Board
CLO	:	Shall mean community liaison officer
CDO	:	Shall mean the JW community officer
CoJ	:	City of Johannesburg
CLO	:	Community Liaison Officer
CONTRACT	:	Shall mean an identified super-block or part thereof of the Project where an ITQS or a Consortium is appointed
HDI and HDC	:	Shall mean historically disadvantage individuals and companies
ITQS	:	Shall mean independent technical and quantity surveyor
CONSORTIUM	:	Shall mean design and construct consortium appointed for the implementation of a contract of the project
CONTRACT AREA	:	shall mean the area within the boundary of the Project Area with suburbs listed under the contract scope in Part PS 1.2 of Volume 1 that is normally defined as a superblock
ECSA	:	Engineering Council of South Africa
EDA	:	Enterprise Declaration Affidavit
ERF Connection	:	Shall mean a connection from the secondary mains to property boundary
EMP	:	Environmental Management Plan
EPWP	:	Expanded Public Works Programme
Ext	:	Extension
GCC	:	General Conditions of Contract
GIS	:	Geographic Information System
JW	:	Johannesburg Water (SOC) Ltd as the employer or client
JASWIC	:	Joint Acceptance Scheme for Water Installation Components
l	:	Litres
LOCAL	:	Shall mean within suburb/s within the boundaries of the project area
LOS	:	Level of Service
MI	:	Megalitres
PROJECT	:	Shall mean "Supply, Installation and Technical Support of STS Prepayment Water Meters in Orange Farm
PROJECT AREA	:	Shall mean the area within the boundary of the scope of works Area as defined in section PS1
PROPERTY	:	Shall mean a stand or sub-division thereof resulting in the separate issue of water and /or other service accounts to owner or occupier

Employer:		Contractor	
Witness:		Witness:	

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
A.	SABS 1200A & 1200AB	SCHEDULE A: PRELIMINARY AND GENERAL				
	8,3	FIXED-CHARGE ITEMS				
1.1	8.3.1	Contractual requirements (sureties, insurance of the Works and plant, third party or public liability insurance and unemployment insurance to cover his compliance with the requirements of the Workmen's Compensation Act, 1941 (Act NO. 30 of 1941) and any other initial financing obligations of a preliminary and general nature, such as contributions to the CEITB)	Sum	1		
	8.3.2	PROVISION OF FACILITIES ON SITE:				
	8.3.2.1	Facilities for Engineer:				
1.2	PSA 8.3.2.1.a	a) Facilities for the Engineer (No:1) and Parking	Sum	1		
		b) JW ISD Team (No:1)	Sum	1		
		c) QCO's and CLO Office (No.1)	Sum	1		
		d) Boardroom (No:1)	Sum	1		
		e) Parking (No.2)	Sum	1		
		f) Nameboards (No=2)	Sum	1		
		g) Communication	Sum	1		
		h) Telephone and Computer facilities for Complaints Handler Team (No.4)	Sum	1		
		i) Ablution and latrine facilities	Sum	1		
1,3	8.3.2.2	Facilities for the Contractor				
		a) Offices and storage sheds	Sum	1		
		b) Workshops		1		
		c) Ablution and latrine facilities	Sum	1		
		d) Tools and equipment	Sum	1		
		e) Water supplies, electric power and communications	Sum	1		
		f) Dealing with water (SANS 1200A 5.5)	Sum	1		
	PS 7	g) Access (see SANS sub-clause 5.8)	Sum	1		
1.4		FACILITIES FOR SMME Fixed Charged Items				
		a) Establishment of storage and Facilities for the SMMEs	Sum	1		
		b) Tools and equipment	Sum	1		
		c) Other Fixed related obligations	Sum	1		
		d) Removal of Facilities	Sum	1		
1.5	PSA 8.3.5.2	OHS Act Obligations (Compilation of OHSAct file)	Sum	1		
1.6	PSA 8.3.5.3	EMP Obligations (Compilation of environmental file)	Sum	1		
1.8	PSA 8.3.5.3	Issuing of notices to Customers	Sum	1		
1.8	8.3.4	Removal of site Establishment	Sum	1		
1.9	8,4	TIME RELATED ITEMS				
1.10	8.4.1	Contractual requirements	Month	21		
1.11	8.4.2	Contractor's Supervision for the duration of construction	Month	21		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.12	8.4.2.1	Facilities for Engineer:				
A.12		a) Facilities for the Engineer (No:1) and Parking	Month	21		
		c) JW ISD Team (No:1)	Month	21		
		d) QCO's and CLO Office (No.1)	Month	21		
A.13		e) Boardroom (No:1)	Month	21		
A.14		f) Parking (No.2)	Month	21		
A.15		g) Nameboards (No=2)	Month	21		
		h) Communication	Month	21		
		h) Telephone and Computer facilities for Complaints Handler Team (No.4)	Month	21		
		i) Ablution and latrine facilities	Month	21		
1.13	8.4.2.2	Facilities for the Contractor:				
	8.4.4	Contractor's head office overhead costs for the duration of the Contract	Month	21		
A.17		a) Offices and storage sheds	Month	21		
A.18		b) Ablution and latrine facilities	Month	21		
A.19		c) Tools and equipment	Month	21		
A.20		d) Water supplies, electric power and communications	Month	21		
A.21		e) Dealing with water (SANS 1200A 5.5)	Month	21		
A.22		f) Access (see sub-clause 5.8)	Month	21		
1.14	PSA 8.4.4	OHS Act Obligations	Month	21		
1.15	PSA 8.4.5	EMP Obligations	Month	21		
1.16	PSA 8.4.6	Security Services	Month	21		
1.17	PSA 8.4.6.1	g)Compliance with OHS & EM Plans including Safety Officer and Environmental Officer Salaries	Month	21		
1.18		Facilities for SMMEs Time Related Items				
		a) Storage Facilities	Month	21		
		b) Tools and equipment	Month	21		
	8.4.3	c) Contractor's Supervision of SMMEs for the duration of construction	Month	21		
		d) Other time related obligations	Month	21		
1.19	PS 3.2.8	SMME's Preliminary and General	Prov.Sum	1	8 290 943	8 290 943
A.29		a) Extra over items 1.19 above for overhead charges and profit	%	8 290 943		
1.20	PSA 8.4.6.2	Security Services on-site for SMMEs facilities	Month	0		Rate only
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.21	PSA 8.5	PROVISIONAL SUMS STATED BY ENGINEER				
		a) Community Liaison Officer Salaries and cellphone allowance (No 3)	Prov. Sum	1	945 000,00	R 945 000,00
		b) JW ISD representative (Community facilitator-including team leader and Complaints handler)	Prov. Sum	1	378 700,00	R 378 700,00
		c) Community awareness material	Prov. Sum	1	100 000,00	R 100 000,00
		d) QCF and QCO(No:5)	Prov. Sum	1	660 000,00	R 660 000,00
		e) Training but not limited to the following: Plumbing	Prov. Sum	1	600 000,00	R 600 000,00
		f) MIS System or similar approved Training	Prov. Sum	1	100 000,00	R 100 000,00
		g) Reinstatement of Asphalt by JRA	Prov. Sum	1	350 000,00	R 350 000,00
		h) Overheads, charges and profit on item 1.21 (a) to 1.21 (g)	%	3 133 700		
1.22		TEMPORARY WORKS				
1.22.1		Existing Services				
		a) Excavation by hand in all material to expose existing services	m ³	1 000		
		b) Temporary protection of services	Sum	1		
		c) Accommodation of traffic	Sum	1		
	PSA 8.4.15	d) Provision of photographic records	Sum	1		
1.23	8.7	DAY WORKS (the rate shall cover overhead charges and profit of all day works items listed) (to be executed on instruction from the Engineer)				
1.23.1		<i>Labour</i>				
		a) Unskilled	hr	150		
		b) Semi skilled	hr	150		
		c) Skilled	hr	150		
		d) Armed Security guard	hr	150		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.23.2		TLB's (Tractor loader backhoe)				
		a) 2x4	hr	150		
		b) 4x4	hr	150		
		Compactors				
1.23.3		a) Wacker	hr	48		
		b) Plate compactor	hr	48		
1.23.4		Generator (Wet Rate)				
		a) 3kVA	hr	100		
		b) 5kVa	hr	100		
TOTAL CARRIED FORWARD TO SUMMARY						

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
2	SABS 1200C	SCHEDULE B: SITE CLEARANCE				
2.1	8.2.1	Clear and grub (2 metre width)	m	1 800		
2.2	PSC 8.2.14	Protection of trees as ordered by Engineer	No	50		
2.3	8.2.10	Remove topsoil to nominal depth of 150mm and stockpile for re-use as directed by Engineer	m ³	1 200		
2.4	PSC 8.2.11b	Removal of man-made surfaces, stockpile materials for later re-use				
		a) Footways and driveways				
		i) Asphalt (≤ 50mm thickness)	m ²	200		
		ii) Asphalt (≥ 50 - 100mm thickness)	m ²	200		
		iii) Interlocking concrete segmental paving blocks (all colours)	m ²	2 400		
		iv) Concrete slabs (450 x 450mm)	m ²	120		
		v) Brick paving	m ²	2 400		
		vi) Grassing and vegetation	m ²	1 200		
		vii) Unreinforced concrete <75mm thick	m ³	45		
		viii) Reinforced concrete <75mm thick	m ³	45		
		ix) Kerbing (All types of kerbs)	m	2 000		
		x) Dump rock/Stone pitching	m ³	60		
		xi) Steel palisade	m	400		
		xii) Concrete palisade	m	400		
		xiii) Removal of all other fences	m	4 000		
		xiv) Demolish of 115mm brick boundary wall	m	2 500		
		xv) Demolish of 230mm brick boundary wall	m	2 000		
		xvi) Tiles	m ²	1000		
2.5	PSC 8.2.12	Backfilling and reinstatement of man-made surfaces				
		a) Backfilling and reinstatement of footways and driveways using materials recovered in item 2.4 above				
		i) Interlocking concrete segmental paving blocks (all colours)	m ²	2 400		
		ii) Concrete slabs (450 x 450mm)	m ²	120		
		iii) Brick paving	m ²	2 400		
		iv) Grassing and vegetation	m ²	1 200		
		v) Kerbing (All types of kerbs)	m	2 000		
		vi) Dump rock/Stone pitching	m ³	60		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
2.6	PSC 8.2.12	a) Backfilling and reinstatement of footways and driveways using new materials				
		i) Asphalt ($\leq$ 50mm thickness)	m ²	200		
		ii) Asphalt ($\geq$ 50 - 100mm thickness)	m ²	200		
		iii) Interlocking concrete segmental paving blocks (all colours)	m ²	720		
		iv) Concrete slabs (450 x 450mm)	m ²	36		
		v) Brick paving all colours	m ²	720		
		vi) Grassing and vegetation	m ²	360		
		vii) Unreinforced concrete <75mm thick	m ³	45		
		viii) Reinforced concrete <75mm thick	m ³	45		
		ix) Kerbing (All types of kerbs)	m	600		
		x) Dump rock/Stone pitching	m ³	18		
		xi) Steel palisade	m	400		
		xii) Concrete palisade	m	400		
		xiii) All other fences	m	4 000		
		xiv) 115mm brick boundary wall including plastering	m	2 500		
		xv) 230mm brick boundary wall including plastering	m	2 000		
		xvi) Tiles	m ²	1000		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	RATE	AMOUNT
3	SABS 1200DB	SCHEDULE C: EARTHWORKS (PIPE TRENCHES)				
3.1	8.3.2	Excavation				
3.1.1	PSDB 8.3.2(a)	Excavate in all material for trenches, shore and dispose of surplus material using labour intensive construction methods for the depths of:				
		a) Over 0,0m and up to 1,5m	m³	14 850		
		b) Over 1,5m and up to 2,5m	m³	10		
		c) Over 2,5m	m³	10		
3.1.2	PSDB 8.3.2(3)	Excavate by hand in all material for tie-ins, house connections, backfill and compact including disposal of surplus unsuitable material for depth:				
		a) Over 0,0m and up to 1,0m	m³	2 228		
		b) Over 1,0m and up to 1,5m	m³	2		
		c) Over 1,5m	m³	2		
3.1.3	8.3.2(b)	Extra over Item 3.1.1 above for : Please refer to PSD 3.1.3 for Classification of materials for hand excavations				
		a) Intermediate excavation.	m³	5 198		
		b) Hard excavation.	m³	4 455		
		c) Rock excavation	m³	1 485		
3.2	8.3.3	Excavation Ancillaries				
3.2.1	8.3.3.1	Make up deficiency in backfill material (Provisional)				
		a) from other necessary excavations on site	m³	3 564		
		b) by importation from designated borrow pits	m³	3 713		
		c) by importation from commercial or off site sources selected by the Contractor	m³	1 485		
3.3	8.3.3.3	a) Additional compaction to 95% mod AASHTO density in road crossings	m³	1 040		
3.4	8.3.4 (a)	a)Shore trench opposite structure or service (Provisional)	m	1 500		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
3.5	PSDB 8.3.5(a)	a) Services that intersect a trench				
		i) Water house connections.	No.	757		
		ii) Sewer pipes up to 300mm Dia.	No.	1 000		
		iii) Cables.	No.	1 400		
		iv) Stormwater pipes up to 1050mm dia.	No.	300		
		v) Kerbs and Channels	No.	500		
		vi) Water pipes of any diameter	No.	800		
		vii) Irrigation pipes	No.	100		
3.6	8.3.5(b)	b) Services that adjoin a trench				
		i) Water house connections	m	1 892		
		ii) Sewer pipes up to 600mm Dia.	m	2 000		
		iii) Cables.	m	3 000		
		iv) Stormwater pipes up to 1050mm dia.	m	1 500		
		v) Kerbs and Channels	m	4 000		
		vi) Water pipes of any diameter	m	6 000		
		vii) Irrigation pipes	m	200		
3.7	PSDB 8.3.5(c)	Services that require special care	No	200		
3.8		Trimming of tree roots on pipe alignment(This item will be measured as number of trees)	No	100		
CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
4	SABS 1200LB	SCHEDULE D: BEDDING (PIPES)				
4.1	8.2.1	Provision of bedding from trench excavation				
		a) Selected granular material	m³	2500		
		b) Selected fill material	m³	4005		
		c) Extra over item 4.1(a) and (b) for sieving where ordered by Engineer	m³	1626		
4.2	8.2.2.3	Provision of bedding imported from commercial sources (Provisional)				
		a) Selected granular material	m³	875		
		b) Selected fill material	m³	1201		
		c) 19mm Crushed stones bedding	m³	976		
4.3	8.2.4	a) Encasing of pipe in 20MPa concrete (Provisional)	m³	481		
		b) Concrete for Thrust/anchor blocks (including all required formwork) as per detail JW100-DET05-W01	m³	360		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
5	SABS 1200L	SCHEDULE E: MEDIUM PRESSURE PIPELINES				
5.1	8.2.1	a) Supply, lay, bed (class B bedding), all test and disinfect, backfill complete with victaulic couplings denso wrapped including knock on collars at joints, high impact mPVC Class 16 pipes: i) DN110 ii) DN160 iii) DN200 iv) DN250	m m m m	10 000 0 0 0		Rate only Rate only Rate only
5.1.1	PSL 8.2.1	Pressure Testing of existing pipes	m	23000		
5.1.2	PSL 8.2.2	Commissioning (Locating, disinfecting and commissioning of existing road reserve water pipes of all materials with diameters ranging from 110 mm to 250mm)	m	23000		
5.1.3	PSL 8.2.3	Decommissioning Material for existing pipes	Prov.Sum	1	R 2 000 000,00	R 2 000 000,00
5.1.4		Extra over items 5.1.3 above for overhead charges and profit	%	R 2 000 000,00		
		Fittings to suit High Impact Class 16 uPVC pipes				
5.2.1	8.2.2	a) Shouldered end Steel Bends Fusion Bonded Epoxy coated 250 microns including thrust blocks to suit high impact mPVC pipe: DN110 i) 11¼° ii) 22.5° iii) 45° iv) 90°	No No No No	25 20 90 25		
	8.2.2	b) Shouldered end Steel Reducer Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC pipe: i) 150mm x 100mm dia. ii) 200mm x 100mm dia.	No No	25 25		
		c) Steel Flanged Crosses, Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) 100mm dia. equal cross ii) 150mm dia. equal cross	No No	45 3		
		e) Steel End Caps Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) DN110 ii) DN160	No No	8 2		
		Extra-over item 8.2.2 for encasing joints (Denso wrapping or similar approved of metal joints).	No	500		
5.3						
5.3.1	PSL 8.2.19	a) Supply, fixing and bedding of valves with its fittings complete (including chambers as per drawing JW100-DET03-W01. Gate Valves Class 16, anti-clockwise closing (except for Midrand Depot) for the following pipe sizes: Valves to be manufactured in accordance with SANS 664 i) DN100 RSV Class 16 Non rising spindle Detail JW100-DET03-W01 ii) DN150 RSV Class 16 Non rising spindle Detail JW100-DET03-W01	No No	160 2		
5.3.2	PSL 8.2.19	b) Supply, fixing and bedding of above ground fire hydrants with fittings and galvanised pipe for connection to the main line as per detail JW100-DET06-W01 (Rate to include all fittings required to connect to main line e.g. tees, bends, distance piece, approved coating on the fire hydrant etc.) i) DN80 fire Hydrant mainline 110mm dia ii) DN80 fire Hydrant mainline 160mm dia	No No	140 5		
5.4	8.2.4	Extra-over 5.1 for cutting and joining of pipes to length where required:				
5.4.1		a) "Press on" shouldered end collars including 1 victaulic coupling for mPVC pressure pipe: i) DN110 ii) DN160	No No	240 10		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
5.4.2		b) Steel Flanged Adaptors with victaulic ends, Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) DN110 ii) DN160	No No	500 14		
5.4.3		c) Steel flanged adaptors (VJ type), Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) DN110 ii) DN160	No No	90 2		
5.5	8.2.15	Special wrapping in corrosive soil per joint and as instructed by the Engineer	No	315		
5.6		Tying into existing Pipes				
5.6.1	PSL 8.2.17	Tying into existing water line. Supply all fittings to suit pipe size including labour for the following pipe sizes, excavations will be allowed under pipe excavations: a) Tying new 110mm-160mm uPVC/HDPE/mPVC into existing steel/HDPE/AC/uPVC pipes for the following pipe sizes: i) 100mm to 200mm ii) 201mm to 400mm b) Tying new 200mm-250mm HDPE/MPVC into existing steel/HDPE/AC/uPVC pipe for the following pipe sizes: i) 100mm to 200mm ii) 201mm to 400mm	No No No No	15 10		Rate Only Rate Only
5.6.2		Tying into existing water line using under pressure drilling. Supply all fittings to suit pipe sizes including labour for the following pipe sizes: a) Tying new 110mm-160mm HDPE/MPVC into existing steel/HDPE pipe for the following pie sizes: i) 100mm to 200mm ii) 201mm to 400mm	No No	2		Rate Only
5.7	PSL 8.2.24.2	Supply, handle, install the following HDPE pipes using Horizontal Directional Drilling (HDD) in soft and intermediate material for any depth a) DN110 (HDPE pipe, Class 16 PE100 SDR 11) b) DN160 (HDPE pipe, Class 16 PE100 SDR 11)	m m	300		Rate Only
5.8		Extra over item 5.7 for Horizontal Direction Drilling in rock material	m	450		
5.8.1		Excavate in all materials Launching and reception shafts/pits	m³	1 013		
5.9	PSL 8.2.18	a) Recover valves, fittings, meters, specials of all sizes etc and deliver to the respective Depot or as instructed by the Employer's Agent. i) Valves following sizes: 1) 100mm to 300mm 2) 301mm to 600mm ii) Fire Hydrants all sizes	No No No	450 220		Rate Only
CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
6.	SABS1200 DB	SCHEDULE F: ERF CONNECTIONS (WATER)				
6.2		EXCAVATIONS				
	8.3.2(a)	Excavate in all materials for trenches 400mm wide, backfill, compact, dispose of surplus / unsuitable material, levelling and cleaning for the following pipe diameters:				
		a) 0 - 40mm diameter	m³	5 298		
		b) > 40mm - 50mm diameter	m³	560		
6.3	PSDB 8.3.2 (b)	Extra-over items (8.3.1 (a)) for				
		i) Intermediate excavation	m³	1 854		
		ii) Hard rock excavation	m³	530		
6.4		ERF CONNECTIONS				
6.4.1		Illegal erf connection locating and removal	No.	2 270		
6.4.2		Erf connection provision and installation				
		1) Domestic erf connections				
		All erf connections HDPE				
		a) Single short erf connections	No.	3 027		
		b) Double short erf connections	No.	1 514		
		c) Single long erf connections	No.	1 892		
		d) Double long erf connections	No.	1 135		
6.4.3	PS4.2.2	HORIZONTAL DRILLING (LONG ERF CONNECTIONS)				
	C2.1.3.1	Supply and installation of pipe through horizontal drilling				
		a) 20 mm diameter HDPE pipes	m	1 230		
		b) 25 mm diameter HDPE pipes	m	2 706		
		c) 32 mm diameter HDPE pipes	m	19 172		
		c) 40 mm diameter HDPE pipes	m	1 000		
6.4.4		Extra-over item for horizontal drilling.	m	3 689		
6.5	PF22.9	VALVES				
		Provision and installation of ball valves				
		a) Provision and installation of ball valves on existing and new erf connections. (Less than 500mm deep)				
		1) 20 mm diameter ball valve	No.	1896		
		2) 25 mm diameter ball valve	No.	1139		
		3) 32mm diameter ball valve	No.	1400		
		4) 40mm diameter ball valve	No.	20		
6.6		b) Provision and installation of ball valves on existing erf connections (More than 500mm deep)				
		1) 20mm diameter ball valve	No.	4 916		
		2) 25 mm diameter ball valve	No.	6 429		
		3) 32mm diameter ball valve	No.	7 186		
		4) 40mm diameter ball valve	No.	20		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
6.7		Extra-over above item for ball valve installation for existing pipes other than HDPE.				
		1) 20 mm diameter ball valve	No.	0		Rate only
		2) 25 mm diameter ball valve	No.	2 270		
		3) 32 mm diameter ball valve	No.	0		Rate only
		4) 40mm diameter ball valve	No.	20		
6.8		Supply and install valve boxes for ball valves	No.	7 568		
		Additional items pertaining to bulk water meters and appeutenances to be procured on instruction from the Engineer	Prov. Sum	1	R100 000	R100 000
		Overheads, charges and profit on item 6.5	%	R 100 000,00		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
7		SCHEDULE G: YARD CONNECTIONS				
7.1	PS1.3 (A)	YARD CONNECTIONS				
7.1.1		Provision and installation of yard connections	Prov.Sum	1	R 5 640 421	R 5 640 421
7.1.2		Extra over items C1 above for overhead charges and profit	%	5 640 421		
7.2		LEAK DETECTION				
	PA8.2.19	Leak free tests	No.	7 000		
TOTAL CARRIED FORWARD TO SUMMARY						

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
8		SCHEDULE H: ON-PROPERTY PLUMBING RETROFITTING				
8.1	PA8.2.8	Preparation and delivery of notice to owner	No.	7 568		
8.2	PA 8.2.20	100% pre-intervention survey on customer properties	No.	7 568		
8.3	PA8.2.2	Provision and installation of on-property plumbing retrofitting	Prov.Sum	1	R957 264	R 957 264
8.4		Extra over items 8.3 above for overhead charges and profit	%	957 264		
		Remove and replace or refurbish existing and test plumbing fittings				
8.5	PA 8.2.22	Water closet (WC) pans	No.	4 541		
8.5.1	PA 8.2.23	Water closet (WC) cistern and flushing mechanism				
		a) 6-Litre plastic unit	No.	2 649		
		b) 6-Litre porcelain unit	No.	2 649		
8.5.2		Flushing unit only				
		a) Plastic flushing unit	No.	2 649		
		b) Ceramic flushing unit	No.	2 649		
8.5.3	PA 8.2.24	Water closet (WC) cistern peripherals				
		a) Cistern-pan connection (Flush pipe)	No.	4 541		
		b) Flexible cistern tank supply connection 20X20mm pipe.	No.	4 541		
		c) Rubber cone for flush pipe (black)	No.	4 541		
8.5.4	PA 8.2.25	Draw-offs (taps) and stop taps (also known as stopcocks) 1) Bib taps				
		i) Internal Taps	No.	3 784		
		ii) External taps	No.	3 784		
8.5.5		2) Pillar taps				
		i) Internal Taps	No.	3 784		
		ii) External taps	No.	3 784		
8.6		3) Mixers	No.	1 514		
8.7		4) Stoptaps	No.	1 514		
8.9		5) Rubber washers	No.	5 298		
8.10	PA8.2.2	PIPEWORK				
		Cut, remove and dispose of existing pipe section/s. Supply, handle, thread/couple, install and test new pipe sections for diameters 15-20mm for the following pipe;				
		a) I.P.S threaded union system	m	3 500		
		b) HDPE	m	7 000		
		Cut, remove and dispose of polytube pipe section/s. Supply, handle, thread/couple, install and test new pipe sections for diameters 15-20mm.	m	4 000		
TOTAL CARRIED FORWARD						

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
8.11	PA8.2.26	EXTRA-OVER ITEM FOR THE REMOVAL AND RE-INSTATEMENT OF SURFACES				
		a) Remove, temporarily store and re-instate all types of tiles	m ²	7 000		
		b) Remove, temporarily store and re-instate all types of brickwork, and re-plaster	m ²	7 000		
8.12		PLUMBING FITTINGS				
8.12.1		Remove and dispose damaged item. Supply new, install, test and commission.				
		a) Equal tees for 0 -40mm diameter and the following materials				
		i) I.P.S threaded union system	No.	10 595		
		ii) HDPE	No.	7 946		
		iii) Copper	No.	10 595		
8.12.2		b) Unequal tees for 0-40mm diameter and the following materials				
		i) I.P.S threaded union system	No.	5 298		
		ii) HDPE	No.	7 946		
		iii) Copper	No.	7 946		
8.12.3		c) Reducing bush 0 to 40mm diameter for the following pipe materials:				
		i) I.P.S threaded union system	No.	10 595		
		ii) HDPE	No.	5 298		
		iii) Copper	No.	7 946		
8.12.4		d) 90 degree Bends/Elbows				
		i) I.P.S threaded union system	No.	5 298		
		ii) HDPE	No.	7 946		
		iii) Copper	No.	10 595		
8.15		ELECTRICAL EARTHING AND BONDING				
		Electrical Earthing	No.	7 946		
		Electrical Bonding				
		a) U-Clamp	No/Set of 2 m	10 595		
		b) Galvanised stay wire/ copper earth peg				
		c) Copper earth peg	No.	5 298		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
9.		SCHEDULE I: CUSTOMER METER INSTALLATION				
9.1	PF22.7	a) Supply of 15mm diameter STS Pre-payment water meter as per JW Metering Guidelines complete inclusive of couplings and Meter Box Unit (MBU)	No.	7 568		
9.2	PF22.9	STS Customer Interface Unit (CIU-IOT) (Supply and pairing of STS meter & Switching of meters from Conventional to Prepaid Mode)	No.	7 568		
9.3	PF22.10	Annual Data Management Fee IOT Network Hosting for 3 years after completion of the contract. (To cover cost for meter reading, meter performance audit and reporting) Please refer to Schedule A and B in the specifications.	No.	7 568		
9.4	PF22.8	b) Installation of meter per stand	No.	7 568		
9.5		TRAINING				
9.5.1	PF22.2.1	Training for Employer's staff per session (20 people per group)	No.	15		
9.5.2	PF22.2.3	Meter demonstration per stand by the Supplier's technicians	No.	7 568		
9.6		TECHNICAL SUPPORT				
9.6.1	PF22.3.1	On- Site Support during construction	Month	21		
9.6.2	PF22.3.2	After hours On-Site Support	No	1 000		
9.6.3	PF 22.3.4	On-Site Support-for 12 months after completion of the contract.	No	3 500		
9.6.4	PF 22.4	Removal of existing meters	No	7 568		
TOTAL CARRIED FORWARD TO SUMMARY						

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
10.		SCHEDULE J: OCCUPATIONAL HEALTH AND SAFETY				
		SUPPLY OF ALL ITEMS OF PERSONAL PROTECTIVE CLOTHING/EQUIPMENT & ENSURE USE THEREOF FOR FULL COMPLIANCE				
10.1		Steel toe capped safety boots	No.	60		
10.2		Appropriate protective clothing	No.	60		
10.3		Gloves	No.	60		
10.4		Colour coded hardhats	No.	60		
10.5		Induction tags /cards	No.	60		
10.6		Luminous high visibility safety vests	No.	60		
10.7		Additional items: Contractor to specify (To be approved by the Engineer)	No.	60		
10.8		BARRICADING				
		Supply & install Proper Safety Nets, including removal upon completion to ensure full compliance to legislation				
10.8.1		Rigid type barricading	m	300		
10.8.2		Additional items: As specified by the Engineer	Prov.Sum	1	400 000	400 000
10.8.3		Profit on item 10.8.2 above	%	400 000		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER
CONTRACT NUMBER: JW14427D

GREATER ORANGE FARM PHASE 3D WATER INFRASTRUCTURE UPGRADE		
DESCRIPTION	AMOUNT	
SCHEDULE A: PRELIMINARY AND GENERAL	R	
SCHEDULE B: SITE CLEARANCE	R	
SCHEDULE C: EARTHWORKS (PIPE TRENCHES)	R	
SCHEDULE D: BEDDING (PIPES)	R	
SCHEDULE E: MEDIUM PRESSURE PIPELINES	R	
SCHEDULE F: ERF CONNECTIONS	R	
SCHEDULE G: YARD CONNECTIONS	R	
SCHEDULE H: ON PROPERTY PLUMBING	R	
SCHEDULE I: METER INSTALLATION	R	
SCHEDULE J: OCCUPATIONAL HEALTH AND SAFETY	R	
SUBTOTAL 1.....	R	
Add Estimated Escalation (@ 7% of Subtotal 1)	R	
SUBTOTAL 2	R	
Add Contingencies (@ 10% of Subtotal 2)	R	
SUBTOTAL 3.....	R	
Add VAT (15% of Subtotal 3)	R	
AMOUNT INCL.VAT	R	