

<u>ADDENDUM</u>	No. 01
<u>CONTRACT NUMBER:</u>	JW14427A
<u>CONTRACT TITLE:</u>	GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE UPGRADE AND RENEWAL
<u>SUBJECT</u>	Addendum 1
<u>Date</u>	20 July 2026
<u>Sender</u>	Jonathan Kekana– jonathan.kekana@jwater.co.za Gcina Ndela– gcina.ndela@jwater.co.za

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

1. Replace Pages 133 & 134 of 498 (BOQ Schedule A: Preliminary & General) of the uploaded PDF tender document with corrected pages attached.
2. Replace Page 148 of 498 (BOQ Schedule I: Customer Meter Installation) of the uploaded PDF tender document with corrected pages attached.
3. Replace Page 153 of 498 (Scope of Works section) of the uploaded PDF tender document with corrected page attached.
4. Closing Date remains 30 July 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

JOHANNESBURG WATER						
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT						
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.14	PSA 8.4.2	Facilities for Engineer:				
		a) Engineers Office Type 2	Month	15		
		b) JW Engineering Team (No.2)	Month	15		
		c) Boardroom (No:1)	Month	15		
		d) Parking (No.2)	Month	15		
		e) Nameboards (No.4)	Month	15		
		f) Communication	Month	15		
		g) Telephone and Computer facilities for Complaints Handler Team (No.4)	Month	15		
		h) Ablution and latrine facilities	Month	15		
1.15	8.4.2.2	Facilities for the Contractor:				
		a) Contractor's head office overhead costs for the duration of the Contract	Month	15		
		b) Offices and storage sheds	Month	15		
		c) Ablution and latrine facilities	Month	15		
		d) Tools and equipment	Month	15		
		e) Water supplies, electric power and communications	Month	15		
		f) Dealing with water (SANS 1200A 5.5)	Month	15		
	PS 7	g) Access (see SANS sub-clause 5.8)	Month	15		
1.16	PSA 8.4.4	OHS Act Obligations	Month	15		
1.17	PSA 8.4.5	EMP Obligations	Month	15		
1.18	PSA 8.4.6	Security Services	Month	15		
1.19	PSA 8.4.7	Contractor's Supervision of SMMEs for the duration of construction	Month	15		
1.20	PSA 8.4.8	Facilities for SMMEs Time Related Items				
		c) Other time related obligations	Month	15		
1.21		SMMEs Preliminary and General	Prov Sum	1	R 6 000 000,00	R 6 000 000,00
		a) Extra over items 1.16 above for overhead charges and profit	%	6 000 000		
1.22	PSA 8.4.9	Satellite Facilities for CLO & QCO Team				
		a) Office for CLO & QCO Team Type 2 (No.4)	Month	15		
		b) Water supplies and electric power	Month	15		
		c) Ablution & Latrine facilities	Month	15		
		d) Security services	Month	15		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER						
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT						
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
				TOTAL BROUGHT FORWARD		
1.23	PSA 8.5	PROVISIONAL SUMS STATED BY ENGINEER				
		a) Community Liaison Officer Salaries and cellphone allowance (No 3)	Prov. Sum	1	540 000,00	
		b) JW ISD representative (Community facilitator-including team leader and Complaints handler)	Prov. Sum	1	1 270 500,00	
		c) Community awareness material	Prov. Sum	1	100 000,00	
		d) QCF and QCO(No:5)	Prov. Sum	1	660 000,00	
		e) Training but not limited to the following: Plumbing	Prov. Sum	1	300 000,00	
		f) MIS System or similar approved Training	Prov. Sum	1	100 000,00	
		g) Reinstatement of Asphalt by JRA	Prov. Sum	1	150 000,00	
	PSA 8.5	h) Fulltime Complaints Handler	Prov. Sum	1	750 000,00	
1.25.1		Overheads, charges and profit on item 1.23 (a) to 1.23 (h)	%	R 3 870 500,00		
1.26		TEMPORARY WORKS				
	8.8.4	Existing Services				
	PSA 8.4.12	a) Excavation by hand in all material to expose existing services	m ³	400		
	PSA 8.4.13	b) Temporary protection of services	Sum	1		
	PSA 8.4.14	c)Accommodation of traffic	Sum	1		
	PSA 8.4.15	d) Provision of photographic records	Sum	1		
1.27	PSA 8.16	DAY WORKS (the rate shall cover overhead charges and profit of all day works items listed) (to be executed on instruction from the Engineer)				
1.27.1		<i>Labour</i>				
		a) Unskilled	hr	20		
		b) Semi skilled	hr	20		
		c) Skilled	hr	20		
		d) Armed Security guard	hr	20		
				TOTAL CARRIED FORWARD		

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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.	3 000		
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.	3 000		
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.	3 000		
9.4	PF22.8	*Installation complete with couplings supplied by Contractor (Meter-IOT)	No.	3 000		
9.5		TRAINING				
9.5.1	PF22.2.1	Training for Employer's staff per session (20 people per group)	No.	5		
9.5.2	PF22.2.3	Meter demonstration per stand by the Supplier's technicians	No.	3 000		
9.6	PF22.3	TECHNICAL SUPPORT				
9.6.1	PF22.3.1	On- Site Support during construction	Month	15		
9.6.2	PF22.3.2,1	After hours On-Site Support	No.	500		
9.6.3	PF 22.3.4	On-Site Support-for 12 months after completion of the contract.	No.	800		
9.6.4	PF22.5	Removal of existing meters	No.	1 000		
TOTAL CARRIED FORWARD TO SUMMARY						

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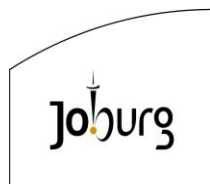
**GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE UPGRADE AND RENEWAL
PROJECT**

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



CONTRACT JW14427A
GREATER ORANGE FARM PHASE 3A 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
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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 Supply 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:	

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
1	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) Engineers Office Type 2	Sum	1		
		b) JW Engineering Team (No.2)	Sum	1		
		c) QCO's and CLO Office (No.2)	Sum	1		
		d) Boardroom (No:1)	Sum	1		
		e) Parking (No.2)	Sum	1		
		f) Nameboards (No.4)	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	Sum	1		
		e) Ablution and latrine facilities	Sum	1		
		f) Tools and equipment	Sum	1		
		g) Water supplies, electric power and communications	Sum	1		
		h) Dealing with water (SANS 1200A 5.5)	Sum	1		
		i) Access (see sub-clause 5.8)	Sum	1		
1.4	PSA 8.3.2.2	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 8.3.2.3	Satellite Facilities for CLO & QCO Team				
		a) Office for CLO & QCO Team Type 2 (No,4)	Sum	1		
		b) Water supplies and electric power	Sum	1		
		c) Ablution & Latrine facilities	Sum	1		
		d) Removal of facilities	Sum	1		
1.6	PSA 8.3.5.2	OHS Act Obligations	Sum	1		
1.7	PSA 8.3.5.3	EMP Obligations	Sum	1		
1.8	PSA 8.3.5.3	Issuing of notices to Customers	Sum	1		
1.9	PSA 8.3.5.4	Other fixed charged obligations (The rate shall include the cost of additional fixed charge contractual and legislative obligations which which are not provided foranywhere else in the bill of quantities)	Sum	1		
1.10	8.3.4	Removal of site Establishment	Sum	1		
1.11	PSA 8.4	TIME RELATED ITEMS				
1.12	8.4.1	Contractual requirements	Month	15		
1.13		Contractor's Supervision for the duration of construction	Month	15		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.14	PSA 8.4.2	Facilities for Engineer:				
		a) Engineers Office Type 2	Month	15		
		b) JW Engineering Team (No.2)	Month	15		
		c) Boardroom (No:1)	Month	15		
		d) Parking (No.2)	Month	15		
		e) Nameboards (No.4)	Month	15		
		f) Communication	Month	15		
		g) Telephone and Computer facilities for Complaints Handler Team (No.4)	Month	15		
		h) Ablution and latrine facilities	Month	15		
1.15	8.4.2.2	Facilities for the Contractor:				
		a) Contractor's head office overhead costs for the duration of the Contract	Month	15		
		b) Offices and storage sheds	Month	15		
		c) Ablution and latrine facilities	Month	15		
		d) Tools and equipment	Month	15		
		e) Water supplies, electric power and communications	Month	15		
		f) Dealing with water (SANS 1200A 5.5)	Month	15		
	PS 7	g) Access (see SANS sub-clause 5.8)	Month	15		
1.16	PSA 8.4.4	OHS Act Obligations	Month	15		
1.17	PSA 8.4.5	EMP Obligations	Month	15		
1.18	PSA 8.4.6	Security Services	Month	15		
1.19	PSA 8.4.7	Contractor's Supervision of SMMEs for the duration of construction	Month	15		
1.20	PSA 8.4.8	Facilities for SMMEs Time Related Items				
		c) Other time related obligations	Month	15		
1,21		SMMEs Preliminary and General	Prov Sum	1	R 6 000 000,00	R 6 000 000,00
		a) Extra over items 1.16 above for overhead charges and profit	%	6 000 000		
1,22	PSA 8.4.9	Satellite Facilities for CLO & QCO Team				
		a) Office for CLO & QCO Team Type 2 (No,4)	Month	15		
		b) Water supplies and electric power	Month	15		
		c) Ablution & Latrine facilities	Month	15		
		d) Security services	Month	15		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.23	PSA 8.5	PROVISIONAL SUMS STATED BY ENGINEER				
		a) Community Liaison Officer Salaries and cellphone allowance (No 3)	Prov. Sum	1	540 000,00	
		b) JW ISD representative (Community facilitator-including team leader and Complaints handler)	Prov. Sum	1	1 270 500,00	
		c) Community awareness material	Prov. Sum	1	100 000,00	
		d) QCF and QCO(No:5)	Prov. Sum	1	660 000,00	
		e) Training but not limited to the following: Plumbing	Prov. Sum	1	300 000,00	
		f) MIS System or similar approved Training	Prov. Sum	1	100 000,00	
		g) Reinstatement of Asphalt by JRA	Prov. Sum	1	150 000,00	
	PSA 8.5	h) Fulltime Complaints Handler	Prov. Sum	1	750 000,00	
1.25.1		Overheads, charges and profit on item 1.23 (a) to 1.23 (h)	%	R 3 870 500,00		
1.26		TEMPORARY WORKS				
	8.8.4	Existing Services				
	PSA 8.4.12	a) Excavation by hand in all material to expose existing services	m ³	400		
	PSA 8.4.13	b) Temporary protection of services	Sum	1		
	PSA 8.4.14	c)Accomodation of traffic	Sum	1		
	PSA 8.4.15	d) Provision of photographic records	Sum	1		
1.27	PSA 8.16	DAY WORKS (the rate shall cover overhead charges and profit of all day works items listed) (to be executed on instruction from the Engineer)				
1.27.1		<i>Labour</i>				
		a) Unskilled	hr	20		
		b) Semi skilled	hr	20		
		c) Skilled	hr	20		
		d) Armed Security guard	hr	20		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
1.27.2		TLB's (Tractor loader backhoe)				
		a) 2x4	hr	15		
		b) 4x4	hr	15		
1.27.3		Compactors				
		a) Wacker	hr	10		
		b) Plate compactor	hr	10		
1.27.4		Generator (Wet Rate)				
		a) 3kVA	hr	10		
		b) 5kVa	hr	10		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	PSC 8.2.1	Clear and grub (2 metre width)	m	12191		
2.2	PSC 8.2.14	Protection of trees as ordered by Engineer	No.	20		
2.3	8.2.10	Remove topsoil to nominal depth of 150mm and stockpile for re-use as directed by Engineer	m ³	250		
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	2926		
		ii) Asphalt (≥ 50 - 100mm thickness)	m ²	800		
		iii) Interlocking concrete segmental paving blocks (all colours)	m ²	3901		
		iv) Concrete slabs (450 x 450mm)	m ²	150		
		v) Brick paving	m ²	2500		
		vi) Grassing and vegetation	m ²	3900		
		vii) Unreinforced concrete <75mm thick	m ³	350		
		viii) Reinforced concrete <75mm thick	m ³	250		
		ix) Kerbing (All types of kerbs)	m	1500		
		x) Dump rock/Stone pitching	m ³	250		
		xi) Steel palisade	m	650		
		xii) Concrete palisade	m	650		
		xiii) Removal of all other fences	m	500		
		xiv) Demolish of 115mm brick boundary wall	m	1000		
		xv) Demolish of 230mm brick boundary wall	m	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	3121		
		ii) Concrete slabs (450 x 450mm)	m ²	150		
		iii) Brick paving	m ²	1500		
		iv) Grassing and vegetation	m ²	2340		
		v) Kerbing (All types of kerbs)	m	900		
		vi) Dump rock/Stone pitching	m ³	200		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
2.6	PSC 8.2.12.2	a) Backfilling and reinstatement of footways and driveways using new materials				
		i) Asphalt (≤ 50mm thickness)	m ²	2926		
		ii) Asphalt (≥ 50 - 100mm thickness)	m ²	800		
		iii) Interlocking concrete segmental paving blocks (all colours)	m ²	780		
		iv) Concrete slabs (450 x 450mm)	m ²	150		
		v) Brick paving all colours	m ²	1000		
		vi) Grassing and vegetation	m ²	1560		
		vii) Unreinforced concrete <75mm thick	m ³	350		
		viii) Reinforced concrete <75mm thick	m ³	250		
		ix) Kerbing (All types of kerbs)	m	600		
		x) Dump rock/Stone pitching	m ³	50		
		xi) Steel palisade	m	650		
		xii) Concrete palisade	m	650		
		xiii) All other fences	m	500		
		xiv) 115mm brick boundary wall including plastering	m	1000		
		xv) 230mm brick boundary wall including plastering	m	1000		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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:				
		i) Over 0,0m and up to 1,5m	m³	13200		
		ii) Over 1,5m and up to 2,5m	m³	500		
		iii) Over 2,5m	m³	150		
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	6000		
		b) Over 1,0m and up to 1,5m	m³	200		
		c) Over 1,5m	m³	100		
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	1463		
		b) Hard excavation.	m³	1463		
		c) Rock excavation	m³	1219		
3.2	SANS 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	731		
		b) by importation from designated borrow pits	m³	488		
		c) by importation from commercial or off site sources selected by the Contractor	m³	366		
3.3	PSDB 8.3.3.3	a) Additional compaction to 95% mod AASHTO density in road crossings	m³	200		
3.4	PSDB 8.3.4 (a)	a)Shore trench opposite structure or service (Provisional)	m	1080		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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.	30		
		ii) Sewer pipes up to 300mm Dia.	No.	20		
		iii) Cables.	No.	20		
		iv) Stormwater pipes up to 1050mm dia.	No.	20		
		v) Kerbs and Channels	No.	20		
		vi) Water pipes of any diameter	No.	5		
		vii) Irrigation pipes	No.	5		
3.6	8.3.5(b)	b) Services that adjoin a trench				
		i) Water house connections	m	3500		
		ii) Sewer pipes up to 600mm Dia.	m	1500		
		iii) Cables.	m	12191		
		iv) Stormwater pipes up to 1050mm dia.	m	1000		
		v) Kerbs and Channels	m	1000		
		vi) Water pipes of any diameter	m	1500		
		vii) Irrigation pipes	m	500		
3.7	PSDB 8.3.5(c)	Services that require special care	No	30		
3.8	PSDB 8.3.6	Trimming of tree roots on pipe alignment(This item will be measured as number of trees)	No	20		
CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	PSLB 8.2.1	Provision of bedding from trench excavation				
		a) Selected granular material	m³	3 413		
		b) Selected fill material	m³	2 438		
	PSLB 8.2.1.1	c) Extra over item 4.1(a) and (b) for sieving where ordered by Engineer	m³	1 024		
4.2	8.2.2.3	Provision of bedding imported from commercial sources (Provisional)				
		a) Selected granular material	m³	900		
		b) Selected fill material	m³	900		
	PSLB 8.2.2.3 (c)	c) 19mm Crushed stones bedding	m³	350		
4.3	8.2.4	a) Encasing of pipe in 20MPa concrete (Provisional)	m³	50		
	PSLB 8.2.3	b) Concrete for Thrust/anchor blocks (including all required formwork) as per detail JW100-DET05-W01	m³	150		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	m m m	8756 2337 1285		
5.2		Fittings to suit High Impact Class 16 mPVC 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° DN160 i) 11¼° ii) 22.5° iii) 45° iv) 90° DN200 i) 11¼° ii) 22.5° iii) 45° iv) 90°	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	10 10 10 10 10 10 10 10 5 5 5 5 5 5 5 5		
	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. iii) 200mm x 150mm dia.	No. No. No.	8 6 4		
	8.2.2	c) Steel Tees Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) 100mm dia. equal tee ii) 150mm dia. equal tee iii) 200mm dia. equal tee iv) 150mm x 100mm dia. reducing tee v) 200mm x 100mm dia. reducing tee vi) 200mm x 150mm dia. reducing tee d) 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 iii) 200mm dia. equal cross e) Steel End Caps Fusion Bonded Epoxy coated 250 microns to suit High Impact mPVC piping including thrust block i) DN110 ii) DN160 iii) DN200 Extra-over item 8.2.2 for encasing joints (Denso wrapping or similar approved of metal joints).	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	10 10 5 5 5 5 5 2 2 2 6 5 5 30		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
5.3		Valves & Appurtenances				
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 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	No.	30		
		ii) DN150 RSV Class 16 Non rising spindle Detail JW100-DET03-W01	No.	14		
		iii) DN200 Wedge Type Class 16 Non rising spindle Detail JW100-DET03-W01	No.	8		
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	No.	30		
		ii) DN80 fire Hydrant mainline 160mm dia	No.	12		
		iii) DN80 fire Hydrant mainline 200mm dia	No.	8		
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	No.	30		
		ii) DN160	No.	20		
		iii) DN200	No.	10		
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	No.	10		
		ii) DN160	No.	10		
		iii) DN200	No.	10		
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	No.	10		
		ii) DN160	No.	10		
		iii) DN200	No.	10		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
5,5	8.2.15	Special wrapping in corrosive soil per joint as instructed by Engineers	No.	20		
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 HDPE/mPVC into existing steel/HDPE/AC/uPVC pipes for the following pipe sizes:				
		i) 100mm to 200mm	No.	12		
		ii) 201mm to 400mm	No.	5		
		b) Tying new 200mm-250mm HDPE/MPVC into existing steel/HDPE/AC/uPVC pipe for the following pipe sizes:				
		i) 100mm to 200mm	No.	3		
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)	m	550		
		b) DN160 (HDPE pipe, Class 16 PE100 SDR 11)	m	300		
		c) DN200 (HDPE pipe, Class 16 PE100 SDR 11)	m	200		
5,8		Extra over item 5.6 for Horizontal Direction Drilling in rock material	m	630		
5.8.1		Excavate in all materials Launching and reception shafts/pits	m³	150		
5.8.2	8.2.2	b) Stub and Flange for HDPE PN16 PE100 SDR11				
		i) Stub and Flange couple for 110 diameter pipe	No.	26		
		ii) Stub and Flange couple for 160 diameter pipe	No.	10		
		iii) Stub and Flange couple for 200 diameter pipe	No.	10		
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	No.	45		
		ii) Fire Hydrants all sizes	No.	25		
CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
6.	SANS1200 LF	SCHEDULE F: ERF CONNECTIONS				
6.1	SANS1200 DB	EXCAVATIONS				
	8.3.2(a)	Excavate in all materials for trenches 400mm wide, backfill, compact, dispose of				
		a) 0 - 40mm diameter	m³	11 079		
		b) 40mm - 50mm diameter	m³	2 818		
6.2	8.3.2 (b)	Extra-over items (8.3.1 (a)) for				
		i) Intermediate excavation	m³	2 500		
		ii) Hard rock excavation	m³	500		
6,3		ERF CONNECTIONS				
6.3.1	PSLF 8.2.9	Illegal erf connection locating and removal	No.	1700		
6.3.2	PSLF 8.2.10	Erf connection provision and installation				
		a) Using open trench construction				
		a) 15mm dia. erf connections	No.	1800		
		b) 25mm dia. erf connections	No.	10		
		c) 32mm dia. erf connections	No.	10		
		d) 40mm-50mm dia. erf connections	No.	5		
6.3.3	PSLF 8.2.11	Horizontal drilling long erf connection				
		a) 15mm dia. erf connections	m	1500		
		b) 25mm diameter erf connections	m	1000		
		c) 32 mm diameter erf connections	m	3000		
		c) 40 mm - 50mm diameter erf connections	m	450		
6.3.3.1		Excavate in all materials Launching and reception shafts	m³	250		
6.3.3.2		Extra-over item for horizontal drilling through rock.	m	800		
6.3.4		Saddles (to suit High Impact mPVC pipes): Complete with bolts , nuts, flat gaskets, seals and stiffened ring.Include drilling hole DN of fitting Ø.Offtake to be BSP threaded (Plasson or similar approved by the Engineer in writing)Include for painting bolts with bituminous corrosion protection				
		i) 110mm x 15mm	No.	1762		
		ii) 110mm x 32mm	No.	4		
		iii) 110mm x 40mm	No.	4		
		iv) 110mm x 50mm	No.	4		
		v) 110mm x 63mm	No.	4		
		vi) 160mm x 15mm	No.	1000		
		vii) 160mm x 32mm	No.	4		
		viii) 160mm x 40mm	No.	4		
		ix) 160mm x 50mm	No.	4		
		x) 160mm x 63mm	No.	4		
		xi) 200mmx 15mm	No.	350		
		xii) 200mm x 32mm	No.	4		
		xiii) 200mm x 40mm	No.	4		
		xiv) 200mm x 50mm	No.	4		
		xv) 200mm x 63mm	No.	4		
TOTAL CARRIED FORWARD						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
TOTAL BROUGHT FORWARD						
6,4	PSLF 8.2.12	BALL VALVES Provision and installation of ball valves				
6.4.1		a) Ball valves (Supply and install brass ball/gate valve stopcock, rate to include all fittings to connect to the HDPE pipes) For existing and new erf connections. (Less than 500mm deep)				
		1) 15 mm diameter ball valve	No.	3000		
		2) 25mm- 32mm diameter ball valve	No.	10		
		3) 40mm diameter ball valve	No.	10		
		4) 50mm diameter ball valve	No.	10		
6.4.2		b) Ball valves (Supply and install brass ball/gate valve stopcock, rate to include all fittings to connect to the HDPE pipes) For existing erf connections. (More than 500mm deep)				
		1) 15 mm diameter ball valve	No.	100		
		2) 25mm- 32mm diameter ball valve	No.	25		
		3) 40mm diameter ball valve	No.	25		
		4) 50mm diameter ball valve	No.	25		
6.4.3		Extra over item for valve installation for existing pipes other than HDPE	Prov. Sum	1	R 100 000,00	R 100 000,00
6.4.4		Overheads, charges and profit on item 6.5	%	R 100 000,00		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	PA 8.2.17	YARD CONNECTIONS				
7.1.1		Provision and installation of yard connections	Prov.Sum	1	R 7 590 909,00	R 7 590 909,00
7.1.2		Extra over items 7.1.1 above for overhead charges and profit	%	R 7 590 909,00		
7.2		LEAK DETECTION				
7.2.1	PA8.2.19	Leak free tests	No.	1 000		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	PA 8.2.20	Preparation and delivery of notice to owner	No.	3000		
8.2	PA 8.2.21	100% pre-intervention survey on customer properties	No.	3000		
8.3	PA 8.2.22	Provision and installation of on-property plumbing retrofitting	Prov.Sum	1	R 13 000 000,00	R 13 000 000,00
8.4		Extra over items 8.3 above for overhead charges and profit	%	R 13 000 000,00		
TOTAL CARRIED TO SUMMARY						

JOHANNESBURG WATER

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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.	3 000		
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.	3 000		
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.	3 000		
9.4	PF22.8	"Installation complete with couplings supplied by Contractor (Meter-IOT)	No.	3 000		
9.5		TRAINING				
9.5.1	PF22.2.1	Training for Employer's staff per session (20 people per group)	No.	5		
9.5.2	PF22.2.3	Meter demonstration per stand by the Supplier's technicians	No.	3 000		
9.6	PF22.3	TECHNICAL SUPPORT				
9.6.1	PF22.3.1	On- Site Support during construction	Month	15		
9.6.2	PF22.3.2,1	After hours On-Ste Support	No.	500		
9.6.3	PF 22.3.4	On-Site Support-for12 months after completion of the contract.	No.	800		
9.6.4	PF22.4	Removal of existing meters	No.	1 000		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER
GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
Item No.	Payment Clause	Description	Unit	Qty	Rate	Amount
10.	PO1.1	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.	200		
10.2		Appropriate protective clothing	No.	200		
10.3		Gloves	No.	200		
10.4		Colour coded hardhats	No.	200		
10.5		Induction tags /cards	No.	200		
10.6		Luminous high visibility safety vests	No.	200		
10.7		Additional items: Contractor to specify (To be approved by the Engineer)	No.	200		
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	350		
10.8.2		Additional items: As specified by the Engineer	Prov.Sum	1	R 100 000,00	R 100 000,00
10.8.3		Profit on item 10.8.2 above	%	R 100 000,00		
TOTAL CARRIED FORWARD TO SUMMARY						

JOHANNESBURG WATER

CONTRACT NUMBER: JW14427A

GREATER ORANGE FARM PHASE 3A WATER INFRASTRUCTURE RENEWAL PROJECT

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	