

Date & Time of Print: 20/10/2026 11:47:56 – Time Zone: Gulf Standard Time

Buyer Organisation: Dubai Municipality

Overview

RFQ/RFP Code	rfq_248239
Title	IR248–Automatic Irrigation system and Landscaping for Hessa Street
Description	
Status	Running

RFQ/RFP Settings

Online Response Required:	Yes
Event Currency	AED
RFQ/RFP Publication	20/10/2026 08:10
Closing	12/11/2026 08:00:00
Time Limit for Expressing Interest	12/11/2026 08:00:00
Awarding Strategy	Best Score

Additional Information

Section	Section Description
Tender Bond	

Title	Description	Value Assigned by Buyer
Tender Bond Amount	Tender Bond Amount	87,000
Type of Invitation	Type of Invitation	Contractors
Invitation Letter	Invitation Letter	 IR248 Inv.Ltr.pdf 479 KB

Section	Section Description
PO Details	

Title	Description	Value Assigned by Buyer
PO Number	PO Number	

Attachments

Path		Description		Folder Size	
root (0)				0 KB	
The Directory is empty					
Path			Description		Folder Size
root/Tender Documents (0)					0 KB
The Directory is empty					
Path			Description		Folder Size
root/Tender Documents/Volume 1 (2)			Tender & Contract Conditions		5,909 KB
Filename		Downloadable	Last Modification Date		Description File Size
15- Part NExternal Party Risk Assessment form.xlsx		Yes	15/10/2026		114 KB
IR248 _Vol.1 T & C.pdf		Yes	15/10/2026		5,795 KB
Path			Description		Folder Size
root/Tender Documents/Volume 2 (0)			Specifications		0 KB
The Directory is empty					
Path			Description		Folder Size
root/Tender Documents/Volume 2/Vol.2 (1)			Specification Appendices		24,861 KB
Filename		Downloadable	Last Modification Date		Description File Size
IR248-Vol-2, Spec. Appx.pdf		Yes	15/10/2026		24,861 KB
Path			Description		Folder Size
root/Tender Documents/Volume 2/Vol.2A (1)			Specification of General Works		2,529 KB
Filename		Downloadable	Last Modification Date		Description File Size
IR248 _Vol.2A – Spec for Gen Wks.pdf		Yes	15/10/2026		2,529 KB
Path			Description		Folder Size
root/Tender Documents/Volume 2/Vol.2B (1)			Specification of Particular Works		10,081 KB
Filename		Downloadable	Last Modification Date		Description File Size
IR248_Vol.2B – Spec for Parti Wks.pdf		Yes	15/10/2026		10,081 KB
Path		Description		Folder Size	
root/Tender Documents/Volume 3 (1)		Bill of Quantities		1,017 KB	

Path		Description	Folder Size	
root/Tender Documents/Volume 3 (1)		Bill of Quantities	1,017 KB	
Filename	Downloadable	Last Modification Date	Description	File Size
IR248 –BOQ.pdf	Yes	15/10/2026		1,017 KB
Path		Description	Folder Size	
root/Tender Documents/Volume 4 (0)		Tender & Contract Drawings	0 KB	
The Directory is empty				
Path		Description	Folder Size	
root/Tender Documents/Volume 4/Vol.4A–LS (11)		Landscape	165,863 KB	
Filename	Downloadable	Last Modification Date	Description	File Size
01–IR248–GEN.pdf	Yes	15/10/2026		9,672 KB
02–IR248–LS–GEN.pdf	Yes	15/10/2026		1,681 KB
03A–IR248–LD–DP–OVERALL.pdf	Yes	15/10/2026		13,596 KB
03B–IR248–LD–DP.pdf	Yes	15/10/2026		17,517 KB
04A–IR248–LD–GR–OVERALL.pdf	Yes	15/10/2026		17,689 KB
04B–IR248–LD–GR.pdf	Yes	15/10/2026		28,852 KB
05A–IR248–LD–LS–OVERALL.pdf	Yes	15/10/2026		18,864 KB
05B–IR248–LD–LS.pdf	Yes	15/10/2026		29,657 KB
06A–IR248–LS–CS KEY PLAN.pdf	Yes	15/10/2026		12,456 KB
06B–IR248–LS–CS.pdf	Yes	15/10/2026		9,826 KB
07–IR248–LS–DT.pdf	Yes	15/10/2026		6,058 KB
Path		Description	Folder Size	
root/Tender Documents/Volume 4/Vol.4B–IR (6)		Irrigation	124,568 KB	
Filename	Downloadable	Last Modification Date	Description	File Size
01–IR248–IR–ML.pdf	Yes	19/10/2026		40,373 KB
02–IR248–IR–DR.pdf	Yes	19/10/2026		44,883 KB
03–IR248–IR–RW.pdf	Yes	19/10/2026		3,116 KB
04–IR248–IR–PC.pdf	Yes	19/10/2026		3,512 KB
05–IR248–IR–DT.pdf	Yes	19/10/2026		21,227 KB
07.IR164 & IR248 – RW approval.pdf	Yes	19/10/2026		11,460 KB
Path		Description	Folder Size	
root/Tender Documents/Volume 4/Vol.4C – UT (2)			820,495 KB	
Filename	Downloadable	Last Modification Date	Description	File Size
01–LS–NOC–22072026–2473.7z	Yes	19/10/2026		684,793 KB
02–IRR–NOC–29072026–2371.7z	Yes	19/10/2026		135,703 KB

01-LS-NOC-22072026-2473.7z	Yes	19/10/2026		684,793 KB
02-IRR-NOC-29072026-2371.7z	Yes	19/10/2026		135,703 KB

Envelopes

Qualification Envelope	Yes
Technical Envelope	Yes
Commercial Envelope	Yes

Qualification Envelope

General Attachments
Not Allowed

Contact Details

Question	Description	Question Type
Contact Person Name	Please Enter Contact Person Name	Text
Contact Number	Please Enter a Direct / Mobile Contact Number	Text

Code of Conduct

Question	Description
Code of Conduct	على جميع الموردين الالتزام بمدونة مبادئ السلوك أثناء عملية إعداد وتقديم العروض والمقترحات أو أي إجراءات ذات علاقة مع البلدية وتعتبر جزء من الشروط العامة All suppliers must adhere to the Code of Conduct during the process of preparing and submitting offers and proposals or any procedures related to the municipality and are considered part of the general conditions.

NDA

Question	Description
CONFIDENTIAL DISCLOSURE AGREEMENT	على جميع الموردين الالتزام بتوقيع نموذج عدم الإفشاء (NDA) أثناء عملية إعداد وتقديم العروض مع البلدية وأرفاقه مع العرض المقدم وتعتبر جزء من الشروط العامة All suppliers are obligated to sign a non-disclosure Agreement (NDA) during the process of preparing and submitting offers with Dubai Municipality and attached with the submitted offer form part of the general conditions

Tender Bond

Question	Description
Tender Bond Form 2020	الضمان الابتدائي

Performance Bank Guarantee

Question	Description
Performance Bank Guarantee Form 2020	الضمان النهائي

Trade License

Question	Description	Question Type
Trade License Classification	Please specify your Trade License type if its Local	Option List
Trade License Classification	If No please specify	Text

Sustainability

Question	Description
Sustainable Policy	سياسة الشراء المستدام
Criteria to evaluate DM suppliers' commitment to apply sustainability	معايير تقييم التزام موردي بلدية دبي بتطبيق الاستدامة

قانون رقم (12) لسنة 2020 بشأن العقود وإدارة المخازن في حكومة دبي

Question	Description
قانون رقم (12) لسنة 2020	يرجى الاطلاع على القانون المستند عليه في إجراءات التعاقد في حكومة دبي
LAW (12) for the year 2020	Please find the attached Contracts and Warehouse Management in the Government of Dubai LAW 12 for the year 2020 that Dubai government uses as a reference in their contractual procedure

Information Security

Question	Description
Information Security Article	وثيقة اشتراطات أمن المعلومات

إجراءات التظلم

Question	Description
إجراءات التظلم من القرارات الصادرة أستناداً لقانون العقود وإدارة المخازن في حكومة دبي	عزيزي المورد في حال رغبتكم تقديم تظلم عن الإجراءات والجزاءات التعاقدية المتخذة بحقكم، يمكنكم تقديم خطاب تظلم مع المستندات الداعمة للجنة المختصة وذلك خلال 30 يوم من تاريخ علمكم بالإجراءات المتخذة بحقكم cgc@dm.gov.ae من خلال البريد الالكتروني

Civil Engineering Construction

Question	Description
الشروط العامة - شروط بلدية دبي لعقد أشغال إنشاءات General Conditions - Dubai Municipality Conditions of Contract for Works of Civil Engineering Construction	يرجى الإطلاع على الشروط العامة للعقد وهي شروط بلدية دبي لعقد أشغال إنشاءات الهندسة المدنية، الجزء الأول - الشروط العامة، 20 مايو 1999 Please find attached the General Conditions of Dubai Municipality Conditions of Contract for Works of Civil Engineering Construction, Part I - General Conditions of May 20, 1999

Technical Envelope

General Attachments
Allowed

Technical Proposal

Question	Description	Question Type
أهلية المقاول	الرخصة التجارية تتضمن الأنشطة المرتبطة بنوع المشروع	Attachment
أهلية المقاول	تقديم تقرير رواتب موظفي الشركة مصدق من وزارة العمل خلال آخر 6 أشهر	Attachment
أهلية المقاول	الجهاز الفني المقترح للمشروع (مدير المشروع، مدير التنفيذ، مهندس الموقع، مهندس (الكهرباء، ميكانيك، مساح الكميات، المساح، المراقبين، الخ ملاحظة : تحدد الإدارة الفنية الكادر المطلوب وتوزيع الدرجات حسب طبيعة أوحجم المشروع	Attachment
أداء المقاول	سجل الشركة التعاقدية في حسن الأداء لدى البلدية في آخر 10 سنوات (سحب مشاريع، وجود منازعات وقضايا تحكيم أو أمام القضاء عدم (سحب مشاريع، أو وجود منازعات وقضايا أمام القضاء أو التحكيم) أو مورد جديد 2 درجة إذا جرى (سحب مشاريع، وجود منازعات وقضايا تحكيم أو أمام القضاء) 0 درجة	Attachment
أداء المقاول	الانطباع العام عن مدى التزام المقاول بمتطلبات التقديم وإدراج الوثائق الداعمة ممتاز 5 درجات جيد جداً 3 درجات جيد 1 درجة	Attachment
أداء المقاول	تطبيق المورد لمنظومة إدارية (جودة - صحة وسلامة - بيئة - غيرها) وفق متطلبات مواصفة دولية وحصوله على شهادة مطابقة معها (مثل مواصفات الأيزو أو المواصفات الأوروبية أو البريطانية) وجود شهادة مطابقة مع مواصفة دولية مجددة 3 درجات وجود شهادة مطابقة مع مواصفة دولية غير مجددة 2 درجات عدم وجود شهادة مطابقة مع مواصفة دولية صفر	Attachment
أداء المقاول	اثبات التعامل مع مصنعين محليين من إمارة دبي عن طريق المقاوله من الباطن	Attachment

أداء المقاول	اثبات التعامل مع مصنعين محليين من إمارة دبي عن طريق المقاوله من الباطن	Attachment
أداء المقاول	(SME) الشركات أعضاء مؤسسة محمد بن راشد لتنمية المشاريع الصغيرة والمتوسطة عن(SME) أو إثبات الدعم لأعضاء مؤسسة محمد بن راشد لتنمية المشاريع الصغيرة والمتوسطة طريق المقاوله من الباطن	Attachment
أداء المقاول	متوسط تقييم المقاول لدى إدارة العقود والمشتريات A درجات اذا التقييم 5 B درجات اذا التقييم 3 C درجات اذا التقييم 2 D درجات اذا التقييم 0 درجة اذا لا توجد مشاريع سابقة 1	Attachment
الوضع المالي للمقاول	سجل الشركة المالي في حسن الأداء من خلال تقديم تقرير حسابات معتمد من مكتب (حسابات معتمد في آخر 5 سنوات (لكل سنة درجة	Attachment
الوضع المالي للمقاول	تقييم شركة الاتحاد للتقييم الائتماني درجات 4 900-746 درجات 3 745-711 درجات 2 710-651 درجة 1 650 - 541	Attachment
الوضع المالي للمقاول	متوسط حجم المشاريع السنوي خلال آخر 5 سنوات بالدرهم ملاحظة: يعتمد على موازنة المشروع قيد التقييم المتوسط ≤ 300 مليون 5 درجات مليون $\geq$ المتوسط > 300 مليون 3 درجات مليون $\geq$ المتوسط > 200 مليون 2 درجات المتوسط > 100 مليون 1 درجة	Attachment
خبرات المقاول	(الخبرات العامة (سنة تأسيس الشركة، المشاريع المنفذة أو قيد التنفيذ	Attachment
خبرات المقاول	الخبرات المتخصصة (تنفيذ مشروعين مشاهدين من حيث الطبيعة الفنية للمشروع في آخر 5 سنوات) بأداء جيد مشروعين 10 درجات مشروع 5 درجات	Attachment
خبرات المقاول	(الخبرات في إدارة الأمن والسلامة (إدارة الأمن والسلامة لمشروعين متشاهدين تحقيق متطلبات الاستدامة والبيئة والصحة والسلامة المهنية مشروعين 5 درجات مشروع 2.5 درجات	Attachment
منهجية العمل	البرنامج الزمني	Attachment
منهجية العمل	التدفق المالي الشهري	Attachment
منهجية العمل	خطة إدارة العمالة	Attachment
منهجية العمل	خطة إدارة المواد والتوريدات	Attachment
المعدات	تقديم قائمة المعدات اللازمة لتنفيذ المشروع (ملك أو استئجار): مثل رافعة برجية، حفار، خلاطة خرسانة، شوبل، مدحلة، شاحنة نقل...الخ	Attachment

Commercial Envelope

General Attachments
Allowed

VAT Registration Details

Question	Description	Question Type
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		Type
DM – Registration Number	Kindly insert your DM Registration Number	Text
DM – VAT Registration Number	Kindly insert your company VAT Registration Number	Text
DM – VAT Certificate	Kindly upload a copy of your company VAT registration certificate	Attachment
DM – VAT Exempt Evidence	If your company is exempted from VAT, kindly provide any evidence document	Attachment

Tender Bond

Question	Description	Question Type
Tender Bond Copy	Please attach a copy of the Tender Bond here.	Attachment
Tender Bond Expiry	Please insert the Tender Bond Expiry date here.	Date
Question	Description	
Tender Bond Hard Copy	يسلم أصل الشيك فقط في المبنى الرئيسي لبلدية دبي - مكتب الاستقبال - الطابق الأرضي - إدارة الشؤون المالية والإيرادات وعلى المناقص تحميل نسخة من الضمان أو الشيك من خلال نظام التوريد الإلكتروني لحكومة دبي قبل يوم واحد على الأقل من الموعد المحدد لإغلاق المناقصة Only the original Cheque shall be delivered to Financial Affairs and Revenue Department –Ground Floor– reception counter – located at Dubai Municipality headquarters. In addition to that, bidders are required to upload the copy of Tender Bond/Cheque into e Supply System at least one day before closing date.	
Tender Bond amount	قيمة ضمان المناقصة: مبلغ مقطوع كما هو محدد في دعوة العطاء Tender bond amount: lump sum amount as mentioned in invitation letter	

SECTION (a) – LIST OF PRINCIPAL QUANTITIES

Code	Description
note	Please refer to section (a) as attached in "Volume 3 – Bill of Quantities"
= "TOTAL CARRIED TO TENDER (AED) "	Amount
Section total included in total?	No

SECTION (b) – PREAMBLES

Code	Description
note	Please refer to section (b) as attached in "Volume 3 – Bill of Quantities"
= "TOTAL CARRIED TO TENDER (AED) "	Amount
Section total included in total?	No

SECTION (c) – DAYWORKS – Page c/1

Code	Description			
Note	Section (c) – Dayworks			
Note	Schedule 1: Labour			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Labourer		h	25
B	Steel Fixer		h	25
C	Mason		h	25
D	Carpenter		h	25
E	Plumber		h	25
F	Electrician		h	25
G	Light Duty Driver		h	25
H	Heavy Duty Driver		h	25
J	Light Plant Operator		h	25
K	Heavy Plant Operator		h	25
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (c) – DAYWORKS – Page c/2

Code	Description			
Note	Section (c) – Dayworks (Cont'd...)			
Note	Schedule 2: Materials			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Building Sand		m3	50
B	Coarse aggregate (dry)		m3	50
C	Fine aggregate (dry)		m3	50
D	Imported subkha		m3	50
E	Imported granular fill roadbase		m3	50
F	Ordinary Portland Cement		t	4
G	Sulphate resisting cement		t	4
H	Mild steel reinforcement bars (any size)		t	4
J	High Yeild ditto (any size)		t	4

J	High Yeild ditto (any size)		t	4
K	Hollow concrete blocks – 100 mm		nr	1,000
L	Hollow concrete blocks – 200 mm		nr	1,000
M	Solid concrete blocks – 100mm		nr	1,000
N	Solid concrete blocks – 200mm		nr	1,000
P	12mm Plywood		m2	10
Q	20mm ditto		m2	50
R	Emulsion paint		ltr	50
S	Granular material for pipe bedding		m3	10
T	Stone material for land drains		m3	10
U	Filter fabric membrane		m2	15
V	Bitumen 60/70		t	1
W	Bitumen 40/50		t	1
X	Concrete Class 30/20 SR Cement		m3	10
Y	Concrete Class 15/40 SR Cement		m3	10
Z	Sub Base Material		m3	10
AA	Wet Mix Material		m3	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (c) – DAYWORKS – Page c/3

Code	Description			
Note	Section (c) – Dayworks (Cont'd...)			
Note	Schedule 2: Materials (Cont'd...)			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Polyurethane clear finish		ltr	10
B	60mm interlock tiles (Plain Finish)		m2	50
C	80mm interlock tiles (Plain Finish)		m2	50
D	150 x 305 mm kerbstone(Plain Finish)		m	50
E	Concrete grade 20/40		m3	25
F	Concrete grade 15/40		m3	25
G	Precast Upstand Kerb, Plan finish		m	20
H	Precast Flush Kerb (0.3x0.2), Plan finish		m	20
J	Precast Drop Kerb (0.3 x 0.15), Plan finish		m	20

J	Precast Drop Kerb (0.3 x 0.15), Plan finish		m	20
K	Precast Heel Kerb (0.075 x 0.15), Plan finish		m	20
L	Solenoid valve; 1½"		nr	2
M	Solenoid valve; 2"		nr	2
N	Solenoid valve; 3"		nr	2
P	Pressure compensating bubblers (1 GPM)		nr	20
Q	On-line emitters (1 GPH)		nr	20
R	Valve boxes; 430 x 295 x 300 mm		nr	5
S	Valve boxes; 590 x 349 x 380 mm		nr	5
T	Valve boxes; 825 x 495 x 450 mm		nr	5
U	PVC Conduits; 1" dia.		m	20
V	PVC Conduits; 1.5" dia.		m	20
W	Sweet soil		m3	20
X	Gravel; 3/8"		m3	10
Y	Power cables * 4C x 6mm2		m	25
Z	Power cables * 4C x 10mm2		m	20
AA	Signal cables * 12 AWG		Roll	1
AB	Warning tape		Roll	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (c) – DAYWORKS – Page c/4

Code	Description			
Note	Section (c) – Dayworks (Cont'd...)			
Note	Schedule 3: Plant			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Pick-up, upto 3 tons		h	20
B	Concrete mixer 0.50 m3		h	20
C	Concrete saw (light duty)		h	20
D	Concrete saw (heavy duty)		h	20
E	Water tanker, minimum 10,000 litres		trip	5
F	Concrete vibrator		h	20
G	Compressor, 130 – 180 cu.ft. / min.		h	20
H	Lorry mounted crane upto 25 t capacity		h	20

H	Lorry mounted crane upto 25 t capacity		h	20
J	Mobile crane, 762 kg.		h	20
K	Generator, 25 KVA		h	20
L	Tipper lorry upto 6 tons		h	20
M	Tipper lorry > 6 tons		h	20
N	Selt priming centrifugal pump of dewatering pump with 50 m length of 150 mm diameter hose: working		h	15
P	4 Wheel drive Dumper – 1 Cu.m		h	10
Q	4 Wheel drive Pickup		h	10
R	Portable Traffic–Light Signals set complete (* Capacity to be inserted by the Tender)		h	10
S	Excavator up to 1 m3		h	10
T	Excavator above 1 m3		h	10
U	Barriers (per lin.m)		h	10
V	Flashing warning light (each)		h	10
W	Revolving warning light (each)		h	10
X	Portable flood lighting set complete with generator		h	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (c) – DAYWORKS – Page c/5

Code	Description			
Note	Section (c) – Dayworks (Cont'd...)			
Note	PART SUMMARY			
Code	Description	Remarks	Unit of Measurement	Quantity
Page c/1	Schedule 1: Labour		sum	1
	Percentage addition for Profit and overhead on Labour	Percentage Value	%	1
Page c/2	Schedule 2: Material		sum	1
Page c/3	Schedule 2: Material		sum	1
	Percentage addition for Profit and overhead on Material	Percentage Value	%	1
Page c/4	Schedule 3: Plant		sum	1
	Percentage addition for Profit and overhead on Plant	Percentage Value	%	1

	Percentage addition for Profit and overhead on Plant	Percentage Value	%	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 1 GENERAL ITEMS – Page d/1/1

Code	Description			
Note	PART 1 – GENERAL ITEMS			
Note	General Notes:			
Note	● Any items required in General Items and has no item in BOQ will be considered subsidiary and included in the prices of the other items.)			
Note	● Total amount of General Item must be not Exceeding 5 % of the Total amount of financial offer, if the Bidder failure to comply/adhere to the mentioned percentage , Dubai Municipality will entitled to reject the offer.			
Note	Contractual Requirements			
Note	Performance Security Note: DM will reimburse the CONTRACTOR for Performance Security fees at cost, supported by the surety's invoice. For the avoidance of doubt, the amount specified in the Bill of Quantities is only indicative and shall not be paid to the Contractor. The maximum amount for reimbursement of Performance Security fees shall not exceed the ceiling price, calculated as follows:			
Note	Performance security amount = $0.3\% \times (\text{number of quarters in contract period}) = \text{Construction duration} + \text{DLP} \times (\text{bidder price}) \times 10\%$ (performance security amount) –Refer Grand Summary Page			
Note	Insurance of the Works Note: DM will reimburse the CONTRACTOR for insurance of work fees at cost, supported by the invoice. For the avoidance of doubt, the amount specified in the Bill of Quantities is only indicative and shall not be paid to the Contractor. The maximum amount for reimbursement of insurance of work fees shall not exceed the ceiling price and the ceiling price shall be equal to 0.15% of the bidder price. Refer Grand Summary Page			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Third Party Liability Insurance		Sum	1
D	Workmen's Compensation Insurance		Sum	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 1 GENERAL ITEMS – Page d/1/2

Code	Description
Note	PART 1 – GENERAL ITEMS (Cont'd...)

Note	PART 1 – GENERAL ITEMS (Cont'd...)			
Note	Specified Requirements			
Note	Services for the Engineer's Staff			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Four-wheel drive AC pickup vehicle with driver & fuel for Laboratory Testing		Day	420
B	Set of monthly reports		Month	14
Code	Description			
Note	Testing			
Note	Testing of Materials			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Arrange and carry out all specified tests and trails to materials including all necessary provision of samples for the following items all in accordance with Specification		Sum	1
Code	Description			
Note	Testing of Works			
Code	Description	Remarks	Unit of Measurement	Quantity
D	All tests and trials to completed sections of the Works for the following items all in accordance with the Specification		Sum	1
Code	Description			
Note	Project Sign Board			
Code	Description	Remarks	Unit of Measurement	Quantity
E	Erection of Project Sign Board, as detailed		nr	4
F	Maintenance		Day	420
G	Removal		nr	4
H	Co-ordinate with Service Authorities (DEWA, ETISALAT, RTA, DM Drainage & Irrigation Department, Building Dept. etc.) for obtaining and maintaining all NOCs, Building Permit, Green Building approvals etc. and pay all relevant fees		Sum	1
J	Allow for providing as-built drawings and operations & maintenance manual Allow for providing as-built drawings and operations & maintenance manual		Sum	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 2 GROUND INVESTIGATION– Page d/2/1

Code	Description			
Note	PART 2 – GROUND INVESTIGATION			
Note	Trial trenches to ascertain/ verify/ locate existing services : maximum length 3m, excavation by hand			
Note	Number in material other than rock			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Depth not exceeding 1.0m		nr	10
B	Max. depth 1–2m		nr	30
C	Max. depth 2–3 m		nr	5
D	Max. depth 3–5 m		nr	2
Code	Description			
Note	Depth in meter			
Code	Description	Remarks	Unit of Measurement	Quantity
E	Depth in material other than rock		m	95
F	Depth supported		m	53
G	Depth backfilled with excavated material for reinstatement		m	95
Code	Description			
Note	Trial trenches to ascertain/ verify/ locate existing services : maximum length 3–6m, excavation by hand			
Note	Number in material other than rock			
Code	Description	Remarks	Unit of Measurement	Quantity
H	Depth not exceeding 1.0m		nr	5
J	Max. depth 1–2m		nr	10
K	Max. depth 2–3 m		nr	5
L	Max. depth 3–5 m		nr	2
Code	Description			
Note	Depth in meter			
Code	Description	Remarks	Unit of Measurement	Quantity
M	Depth in material other than rock		m	50
N	Depth supported		m	33

N	Depth supported		m	33
P	Depth backfilled with excavated material for reinstatement		m	50
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 2 GROUND INVESTIGATION– Page d/2/2

Code	Description			
Note	PART 2 – GROUND INVESTIGATION (Cont'd..)			
Note	Trial trenches to ascertain/ verify/ locate existing services : maximum length 6–12m, excavation by hand			
Note	Number in material other than rock			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Depth not exceeding 1.0m		nr	5
B	Max. depth 1–2m		nr	6
C	Max. depth 2–3 m		nr	2
D	Max. depth 3–5 m		nr	2
Code	Description			
Note	Depth in meter			
Code	Description	Remarks	Unit of Measurement	Quantity
E	Depth in material other than rock		m	33
F	Depth supported		m	20
G	Depth backfilled with excavated material for reinstatement		m	33
Code	Description			
Note	Trial trenches to ascertain/ verify/ locate existing services : maximum length 12–18m, excavation by hand			
Note	Number in material other than rock			
Code	Description	Remarks	Unit of Measurement	Quantity
H	Depth not exceeding 1.0m		nr	5
J	Max. depth 1–2m		nr	6
K	Max. depth 2–3 m		nr	2
L	Max. depth 3–5 m		nr	2

L	Max. depth 3–5 m		nr	2
Code	Description			
Note	Depth in meter			
Code	Description	Remarks	Unit of Measurement	Quantity
M	Depth in material other than rock		m	33
N	Depth supported		m	20
P	Depth backfilled with excavated material for reinstatement		m	33
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 2 GROUND INVESTIGATION– Page d/2/3

Code	Description			
Note	PART 2 – GROUND INVESTIGATION (Cont'd..)			
Note	Rotary drilled boreholes			
Note	Nominal diameter at base 150mm			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Number of boreholes; sub–surface site investigation for irrigation pumping station and storage tank.		nr	1
B	Depth without core recovery in holes of maximum depth not exceeding 5m		m	2
C	Depth with core recovery in holes of maximum depth 5 – 10m		m	2
D	Depth with core recovery in holes of maximum depth 10 – 20m		m	4
E	Depth backfill with excavated material		m	7
Code	Description			
Note	Samples			
Code	Description	Remarks	Unit of Measurement	Quantity
F	Disturbed sample of soft material from the surface; minimum 40kg		nr	1
Code	Description			
Note	Site Tests and Observations			

Note	Site Tests and Observations			
Code	Description	Remarks	Unit of Measurement	Quantity
G	Site test for Ground Water Level; as directed by the Engineer		nr	1
H	Standard penetration for rotary drilled boreholes		nr	3
J	In-situ density tests		nr	1
K	Soil electrical resistivity test by Weener for electrode configuration.		nr	1
Code	Description			
Note	Laboratory Tests			
Code	Description	Remarks	Unit of Measurement	Quantity
L	Moisture content		nr	3
M	Specific gravity		nr	3
N	Particle size analysis by sieve		nr	3
P	Chemical content, organic matter		nr	2
Q	Chemical content, sulphate		nr	2
R	Chemical content, pH Value		nr	2
S	Chemical content, chloride		nr	2
T	Direct shear		nr	2
U	California bearing ratio soaked 4 days		nr	1
V	Unconfined compressive strength of core sample 1-2m height		nr	3
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 3 DEMOLITION AND SITE CLEARANCE– Page d/3/1

Code	Description			
Note	PART 3 – DEMOLITION AND SITE CLEARANCE			
Note	General clearance			
Code	Description	Remarks	Unit of Measurement	Quantity
A	General clearance as specification clause 2/4		ha	7

A	General clearance as specification clause 2/4		ha	7
B	Removal & disposal of Existing asphalt / concrete surface, including, cuttings, excavation, removal of hard surface, surplus material, boulders to the depth upto formation level receive planting soil all complete as per drawings and Tender documents		m2	50
Code	Description			
Note	Removal & Disposal of Irrigation works			
Note	Carefully Remove & dispose the Existing mainline, lateral lines, including excavation, cutting, dismantling, removal and make temporary endcaps on both sides, backfilling, preparation upto formation level and handover the removed equipments without any damages to DM store.			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Automatic Irrigation Mainline size from 4inch to 8inch including conduits & cables		m	300
D	Secondary auto irrigation lateral network size from 1inch to 3inch.		m	400
E	Automatic irrigation Solenoid valve assembly size from 1inch to 3 inch		nr	5
Code	Description			
Note	Removal & handover to DM store for the following items including valves, fittings, valve box and accessories in the existing system and end cap the network mainlie to complete			
Code	Description	Remarks	Unit of Measurement	Quantity
F	1", 1.5", 2" & 3" inch Solenoid valve assembly		nr	12
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 3 DEMOLITION AND SITE CLEARANCE– Page d/3/2

Code	Description			
Note	PART 3 – DEMOLITION AND SITE CLEARANCE (Cont'd..)			
Note	Removal & Disposal of Irrigation works (Cont'd...)			
Note	Removal & disposal of following items including excavation Removal and disposal of Lateral Line including fittings as per site requirment. and Drawings to complete			
Code	Description	Remarks	Unit of Measurement	Quantity
A	1", 1.5", 2" & 3" upvc Lateral Line		m	800
Code	Description			
Note	Removal & Disposal of Soft Landscape works			

Note	Removal & Disposal of Soft Landscape works			
Note	Removal and disposal of existing landscape elements, located within the project boundary as per drawings and Authority requirement including irrigation system, disconnection all works to complete. (Trees and Palms to be transported to DM nursery in Pot to the holding area).			
Code	Description	Remarks	Unit of Measurement	Quantity
B	Removal of existing Ghaf trees (height upto 2.5m)		nr	70
C	Removal of existing Ornamental trees (height upto 2.5m)		nr	22
D	Removal of existing Palm trees (height upto 5m)		nr	5
E	Removal & disposal of Existing Ground Cover		m2	100
F	Removal & disposal of Existing Shrubs/Hedges		m2	1,427
G	Removal & disposal of Existing Lawn		m2	100
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 6 ROADS AND PAVINGS – Page d/6/1

Code	Description			
Note	PART 6 – ROADS AND PAVINGS			
Note	FOR ACCESS ROAD & MAINTENANCE LAY BY			
Note	Supply, installation of Kerb, channels or edgings; straight or curved, complete including earthworks, excavation, preparation of sub-base, removal of excess material, compaction, concrete bed and backing, backfilling and transitions.			
Note	Preparation works			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Aggregate sub base; CBR 30%; depth 150mm.		m2	280
B	Wet-mix macadam; CBR 80%; depth 150mm.		m2	280
C	Precast Concrete Rectangular Paving Block (P1) 200x100x60mm; Color & finishing as per authority requirements		m2	87
D	Precast Concrete Rectangular Paving Block P2; thickness 80mm on and including 50mm thick sand bed for lay bys; Color & finishing as per authority requirements		m2	182
Code	Description			
Note	Precast Ckerb, color and finish as per Authority requirements			

Note	Precast Ckerb, color and finish as per Authority requirements			
Code	Description	Remarks	Unit of Measurement	Quantity
E	Precast concrete Upstand kerb; 915(L)x150(W)x 305(H)mm		m	82
F	Precast concrete Flush kerb; 915(L)x150(W)x255(H)mm		m	72
G	Precast concrete Heel kerb; 600(L)x75(W)x150(H)mm		m	108
Code	Description			
Note	Removal & Re-installation Guard Rail			
Code	Description	Remarks	Unit of Measurement	Quantity
H	Removal of existing Guard rail and re-installation of the same after completion of above layby works as shown in the drawings and as per RTA authority approval and requirements.		m	96
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 6 ROADS AND PAVINGS – Page d/6/2

Code	Description			
Note	PART 6 – ROADS AND PAVINGS (Cont'd...)			
Note	FOR ACCESS ROAD & MAINTENANCE LAY BY			
Note	Surface Markings			
Note	Ancillaries – Surface marking; Thermo Plastic Marking as specified			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Yellow continuous lines; 150mm wide. Ref 613		m	120
B	White – Intermittent lines; 150 mm wide. Ref 681		m	120
Code	Description			
Note	Signage			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Supply & installation of Sign boards for Layby as per authority requirements and standards		nr	4

	per authority requirements and standards			
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 7 DEWA WATER WORKS– Page d/7/1

Code	Description			
Note	PART 7 – DEWA WATER WORKS			
Note	Precast reinforced concrete protection slabs placed over existing DEWA water Network, as per DEWA standards, including excavation, back filling, bitumen paint and reinstatement.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Protection slab, 2000(W) x 300mm(D)		m	50
Code	Description			
Note	Protection Sleeve for Irrigation Pipes			
Code	Description	Remarks	Unit of Measurement	Quantity
B	300mm Dia Steel sleeve as per Authority requirement		m	20
C	400mm Dia Steel sleeve as per Authority requirement		m	20
Code	Description			
Note	NDRC WORKS UTILITY CROSSING			
Note	Non disruptive special pipe laying using HDD methods for installing sleeves. The rate shall include for all pipes, grouting, support to inner ducts, Excavation, backfilling, service diversions, control and diversion of the existing services, control and diversion of existing flows in pipes by blocking, plugging or over pumping including Access and Receiving pits if any as per DM standards and specification			
Code	Description	Remarks	Unit of Measurement	Quantity
D	HDD – HDPE Sleeve 400mm (PE100 SDR11) diameter for 250 mm dia. OD HDPE Pipe in accordance with the DM standard and Specifications (Pipe measured separately under item below).		m	10
E	supply and installation of 250 mm HDPE (PE100 SDR11) dia. OD pipe not in trench for the NDRC passing through the sleeves.		m	10
F	HDD – HDPE Sleeve 355mm (PE100 SDR11) diameter for 200 mm dia. OD HDPE Pipe in accordance with the DM standard and Specifications (Pipe measured separately under item below).		m	5
G	supply and installation of 200 mm HDPE (PE100 SDR11) dia. OD pipe not in trench for the NDRC passing through the sleeves.		m	5

	the sleeves.			
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 8 DEWA–ELECTRICAL WORKS– Page d/8/1

Code	Description			
Note	PART 8 – DEWA – ELECTRICAL WORKS			
Note	Precast reinforced concrete protection slabs placed over existing DEWA cable trough, as per authority DEWA standards, including excavation, back filling, bitumen paint and reinstatement.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Protection slab, 2000(W) x 300mm(D)		m	10
B	Protection slab, 3000(W) x 300mm(D)		m	20
Code	Description			
Note	Protection Sleeve for Irrigation Pipes			
Code	Description	Remarks	Unit of Measurement	Quantity
C	300mm Dia Steel sleeve as per Authority requirement		m	10
D	400mm Dia Steel sleeve as per Authority requirement		m	20
E	500mm Dia Steel sleeve as per Authority requirement		m	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 9 – WORKS FOR ETISALAT – Page d/9/1

Code	Description			
Note	PART 9 – WORKS FOR ETISALAT			
Note	PROTECTION WORKS			
Note	Precast reinforced concrete protection slabs placed over existing ETISALAT CABLE trough, as per authority standards, including excavation, back filling, bitumen paint and reinstatement.			

	authority standards, including excavation, back filling, bitumen paint and reinstatement.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Protection slab, 2000(W) x 300mm(D)		m	10
B	Adjustment of Existing Etislat Manhole as per Authority requirements to suit with proposed landscape grading.		nr	1
C	Supply, installation of waterproofing membrane around existing manhole (Tabreed/etisalat/Du ITS) located inside proposed softscape area as shown in the utility layout including excavation, cleaning, applying membrane coating as per Authority requirements		m2	100
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 10 – TELECOM (DU) AND ITS WORK – Page d/10/1

Code	Description	Remarks	Unit of Measurement	Quantity
Note	PART 10 – TELECOM (DU) AND ITS WORK			
Note	PROTECTION WORKS			
Note	Precast reinforced concrete protection slabs placed over existing DU & ITS CABLE trough, as per authority standards, including excavation, back filling, bitumen paint and reinstatement.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Protection slab, 2000(W) x 300mm(D)		m	10
B	Adjustment of Existing DU ITS Manholes as per Authority requirements to suit with proposed landscape grading as per engineer approval.		nr	1
C	Supply, installation of waterproofing membrane around existing manhole (Tabreed/etisalat/Du ITS) located inside proposed softscape area as shown in the utility layout including excavation, cleaning, applying membrane coating as per Authority requirements		m2	100
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 11 – DM – DRAINAGE WORKS – Page d/11/1

Code	Description			
Note	PART 11 – DM – DRAINAGE WORKS			
Note	Adjustment of Existing DM storm water manhole to match with finished landscape level as per authority requirements subject to DM-Drainage Projects Department approval.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Adjustment of Existing Drainage Manholes as per Authority requirements to suit with proposed landscape grading as per engineer approval.		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 12 – DM – SEWERAGE WORKS – Page d/12/1

Code	Description			
Note	PART 12 – DM – SEWERAGE WORKS			
Note	Adjustment of Existing DM Sewerage manhole to match with finished landscape level as per authority requirements subject to DM-Drainage Projects Department approval.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Adjustment of Existing DM Sewerage Manholes as per Authority requirements to suit with proposed landscape grading as per engineer approval.		nr	1
Code	Description			
Note	Precast reinforced concrete protection slabs placed over existing DM Sewerage network trough, as per authority DM standards, including excavation, back filling, bitumen paint, reinstatement all the works as required to complete.			
Code	Description	Remarks	Unit of Measurement	Quantity
B	Protection slab, 2000(W) x 300mm(D)		m	5
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 13 PLANTING PREPARATORY WORKS– Page d/13/1

Code	Description			
Note	PART 13 – PLANTING PREPARATORY WORKS			
Note	EARTH WORKS			
Note	Excavation			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Excavation for cuttings in material other than top soil, rock or artificial hard material, for areas to receive sweet soil (for Ground cover, Seasonal flowers and lawn)		m ³	15,286
B	Excavation for planting Shrubs & Hedges		m ³	5,531
C	Excavation for Tall Shrubs		m ³	100
D	Excavation for Tree pits		m ³	420
E	Excavation for Palm pits		m ³	100
F	Disposal for excess soil in DM designated area or as directed by engineer		m ³	12,493
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 13 PLANTING PREPARATORY WORKS– Page d/13/2

Code	Description			
Note	PART 13 – PLANTING PREPARATORY WORKS (Cont'd...)			
Note	EARTH WORKS (Cont'd)			
Note	Filling			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Filling to make up levels for receiving sweet soil using excavated materials. (Mounting)		m ³	8,328
B	Filling to make up levels for receiving sweet soil using imported materials.		m ³	2,325
C	Sweet soil filling general – for landscaping ingrade and slopes (lawn, grass, ground cover, succulents, seasonals minimum 0.4m thick)		m ³	15,286
D	Sweet soil filling for Shrub and grasses pits		m ³	5,531
E	Sweet soil filling for Tall shrubs		m ³	100
F	Sweet soil filling for Tree pits		m ³	420
G	Sweet soil filling for Palm pits		m ³	100
Code	Description			

Note	Miscellaneous Works			
Note	Drainage Gravel			
Code	Description	Remarks	Unit of Measurement	Quantity
H	Drainage Gravel (Crushed Gravel) 150mm thick for Palm & tree pits with size of 10–20mm including Geotextile and other items required to complete as per drawings and specifications.		m ³	60
Code	Description			
Note	Root Barrier / Protection Membrane			
Code	Description	Remarks	Unit of Measurement	Quantity
J	Supply, installation of 2mm Thick HDPE liner for Trees between existing dewa service and Planting medium and existing RTA bridge / underpass Structure to avoid Irrigation water in contact with the structure to complete as per NOC requirements and authority requirements		m ²	1,320
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 13 PLANTING PREPARATORY WORKS– Page d/13/3

Code	Description			
Note	PART 13 – PLANTING PREPARATORY WORKS (Cont'd...)			
Note	Attendance & watering during planting including operation, maintenance throughout construction period.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Trees & Palms		sum	1
B	Shrubs		sum	1
C	Hedges		sum	1
D	Groundcovers, Ornamental grass & Seasonals		sum	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 14 HARD LANDSCAPING WORKS – Page d/14/1

Code	Description			
Note	PART 14 – HARD LANDSCAPING WORKS			
Note	HARDSCAPING			
Note	EARTH WORKS			
Note	Excavation			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Excavation for cuttings; material other than top soil, rock or artificial hard material.		m3	3,625
B	Disposal of excess soil in DM designated area or as directed by Engineer.		m ³	1,450
Code	Description			
Note	Excavation / Filling ancillaries			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Preparation of excavated surfaces to receive permanent works.		m2	22,850
Code	Description			
Note	Filling			
Note	Preparation of excavated/filling surfaces to receive permanent works.			
Code	Description	Remarks	Unit of Measurement	Quantity
D	Filling to embankments, suitable excavated material other than top soil or rock.		m ³	2,175
E	Filling to embankments; imported material other than top soil or rock		m ³	500
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 14 HARD LANDSCAPING WORKS – Page d/14/2

Code	Description
Note	PART 14 – HARD LANDSCAPING WORKS (Cont'd...)
Note	HARDSCAPING (Cont'd...)
Note	Edger, complete including earthworks, concrete bed and backing, backfilling and transitions as per Dwg, material schedule and specifications (Sub-base included)

Code	Description	Remarks	Unit of Measurement	Quantity
A	Supply and installation 4.5mm thick Aluminum edge (K22) 140mm depth between gravels including Aluminium Stakes complete as show on drawing and specification.		m	6,032
B	Supply and installation Precast Concrete edger 100x200x60mm – Grey color (B01– PCC Edger) between planting beds to complete as show on drawing and specification.		m	5,981
C	Supply and installation Plastic edger 150mm depth between gravels including Stakes complete as show on drawing and specification.		m	100
Code	Description			
Note	Supply & Installation of Precast concrete paver for following size around existing manhole and side walk, including civil works, excavation, compaction sub-base to complete as per drawing & specifications.			
Code	Description	Remarks	Unit of Measurement	Quantity
D	Precast Concrete Rectangular Paving Block (P1); Grey colour, Normal finish; 200x100x60mm		m2	400
E	Precast Concrete Rectangular Paving Block (P2); Grey colour, Normal finish; 200x100x80mm		m2	50
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 14 HARD LANDSCAPING WORKS – Page d/14/3

Code	Description	Remarks	Unit of Measurement	Quantity
Note	PART 14 – HARD LANDSCAPING WORKS (Cont'd...)			
Note	HARDSCAPING (Cont'd...)			
Note	Supply and install precast concrete kerbs including civil works as per drawing and Specification (Sub-base included)			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Precast concrete Upstand kerb; 915(L)x150(W)x 305(H)mm		m	100
B	Precast concrete Heel kerb; 600(L)x75(W)x150(H)mm		m	720
C	Precast concrete Edging ring (2-pieces) , for trees in gravel area , as per specification and Material Schedule		nr	166

D	Blinding Concrete SRC, Class 25/20 , light gery , 70mm thickness, over compacted sub-grade as shown in the drawings		m2	1,264
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) -WORK ITEMS – PART 14 HARD LANDSCAPING WORKS – Page d/14/4

Code	Description			
Note	PART 14 – HARD LANDSCAPING WORKS (Cont'd...)			
Note	HARDSCAPING (Cont'd...)			
Note	GRAVEL			
Note	Supply and install following Gravel, Excavation, formation, Including compacted subgrade complete with geotextile as per Drawing, Material Schedule and particular specifications			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Gravel (Code P71) White colour, Size 40–50 mm Dia,		m2	13,710
B	Gravel (Code P71) Grey colour, Size 40–50 mm Dia,		m2	5,878
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) -WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/1

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS			
Note	PIPEWORK – PIPES & DISTRIBUTION			
Note	uPVC pipe laid in trenches, depth not exceeding 1.0 m including all fittings, as per DM standard etc. all as detailed in specification and as shown on drawings.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	1 " diameter pipe class "E"		m	5,587
B	1½ " diameter pipe class "D"		m	2,850
C	2 " diameter pipe class "D"		m	2,716
D	3 " diameter pipe class "D"		m	760
E	4 " diameter pipe class "D"		m	203

Code	Description			
Note	uPVC pipe laid in trench depth not exceeding 1.5 m, excavation, dewatering, removal of surplus material, bedding, surround, including all necessary fittings, as per DM standard etc. all as detailed in specification and as shown on drawings and tender documents.			
Code	Description	Remarks	Unit of Measurement	Quantity
F	4 " diameter pipe class "D"		m	420
G	6 " diameter pipe class "D"		m	1,350
H	8 " diameter pipe class "D"		m	289
J	10 " diameter pipe class "D"		m	712
Code	Description			
Note	HDPE pipe laid in trench depth not exceeding 1.5 m, excavation, dewatering, removal of surplus material, bedding, surround, including, joints, weldings all necessary fittings, as per DM standard etc. all as detailed in specification and as shown on drawings and tender documents.			
Note	For HDPE pipes			
Code	Description	Remarks	Unit of Measurement	Quantity
K	450mm Dia. OD HDPE pipe, PE100 SDR11(Disharge line)		m	60
L	450mm Dia. OD HDPE pipe, PE100 SDR11(RW Supply line)		m	220
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/2

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	PIPEWORK – PIPES & DISTRIBUTION (Cont'd)			
Note	HDPE pipe not laid in trenches, depth not exceeding 2.0 m including welding, necessary adaptors all fittings, as per DM standard etc. all as detailed in specification and as shown on drawings.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	110mm Dia HDPE pipe, PE100 SDR11		m	12
B	125mm Dia HDPE pipe, PE100 SDR11		m	60
C	180mm Dia HDPE pipe, PE100 SDR11		m	10
D	200mm Dia HDPE pipe, PE100 SDR11		m	210
E	250mm Dia HDPE pipe, PE100 SDR11		m	160

F	315mm Dia HDPE pipe, PE100 SDR11		m	60
G	450mm Dia HDPE pipe, PE100 SDR11		m	60
Code	Description			
Note	PIPEWORK – FITTINGS			
Note	Supply, lay and joint fittings in trench in accordance with specification.			
Code	Description	Remarks	Unit of Measurement	Quantity
H	4" Transition fittings uPVC to HDPE		nr	10
J	6" Transition fittings uPVC to HDPE		nr	18
K	8" Transition fittings uPVC to HDPE		nr	26
L	10" Transition fittings uPVC to HDPE		nr	14
Code	Description			
Note	Supply, lay and joint uPVC fittings in trench in accordance with specification.			
Code	Description	Remarks	Unit of Measurement	Quantity
M	4" uPVC End cap		nr	6
N	6" uPVC End cap		nr	24
P	8" uPVC End cap		nr	12
Q	10" uPVC End cap		nr	8
Code	Description			
Note	Supply and install marker post / plate for the irrigation main supply pipeline including concrete base and associated works to complete.			
Code	Description	Remarks	Unit of Measurement	Quantity
R	Marker Post		nr	38
S	Marker Plates		nr	38
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/3

Code	Description
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)
Note	PIPEWORK–MANHOLES AND PIPEWORK ANCILLARIES
Note	DUCTS

Note	Supply, Lay & Joint uPVC Ducts. Not in trench including, endcap, draw ropes etc. and all related work complete (surround measured separately)			
Code	Description	Remarks	Unit of Measurement	Quantity
A	1-way, 300mm dia Depth not exceeding 1.5m		m	20
B	2-way, 150mm dia Depth not exceeding 1.5m		m	20
Code	Description			
Note	Supply, Lay & Joint uPVC Ducts. in trench including excavation, backfilling, endcap, Duct markers, warning tape and all related work complete (surround measured separately)			
Code	Description	Remarks	Unit of Measurement	Quantity
C	1-way, 300mm Depth not exceeding 1.5m		m	15
D	2-way ,150dia Depth not exceeding 1.5m		m	15
Code	Description			
Note	Mass Concrete surrounds to Ducts (where Depth less than required cover) including polythene sheet, bitumen paint and as per specification and drawings			
Code	Description	Remarks	Unit of Measurement	Quantity
E	1-way, 300mm		m	21
F	2-way, 150mm		m	21
Code	Description			
Note	Beds and surrounds including polythene sheet, bitumen paint and warning tape as applicable			
Code	Description	Remarks	Unit of Measurement	Quantity
G	Imported sand bed and surround to 1 way 300mm dia upvc duct		m	26
H	Imported sand bed and surround to 2 way 150mm dia upvc duct		m	26
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/4

Code	Description
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)
Note	Non disruptive methods for road crossings
Note	Non disruptive special pipe laying using HDD methods for installing sleeves. The rate shall include for all pipes, grouting, support to inner ducts, Excavation, backfilling, service diversions, control and diversion of the existing services, control and diversion of existing flows in pipes by blocking, plugging or over pumping including Access and Receiving pits if any as per DM standards and specification

Code	Description	Remarks	Unit of Measurement	Quantity
A	HDD – HDPE Sleeve 355mm (PE100 SDR11) diameter for 200 mm dia HDPE OD Pipe in accordance with the DM standard and Specifications (Pipe measured separately under item below).		m	36
B	Supply and installation of 200 mm HDPE (PE100 SDR11) dia OD pipe not in trench for the NDRC passing through the sleeves.		m	36
C	HDD – HDPE Sleeve 250mm (PE100 SDR11) diameter for 125 mm dia HDPE OD Pipe in accordance with the DM standard and Specifications (Pipe measured separately under item below).		m	10
D	supply and installation of 125 mm HDPE (PE100 SDR11) dia OD pipe not in trench for the NDRC passing through the sleeves.		m	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/5

Code	Description	Remarks	Unit of Measurement	Quantity
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	HDD – HDPE Sleeve (PE100 SDR11) diameter (For conduit/lateral) accordance with the DM standard and Specifications. (Conduit & Lateral measured separately)			
Code	Description	Remarks	Unit of Measurement	Quantity
A	HDD – HDPE Sleeve 2x200		m	46
B	HDD – HDPE Sleeve 1x200		m	20
Note	Non disruptive special pipe laying using Thrust boring methods for installing sleeves. The rate shall include for all pipes, grouting, support to inner ducts, Excavation, backfilling, service diversions, control and diversion of the existing services, control and diversion of existing flows in pipes by blocking, plugging or over pumping including Access and Receiving pits if any as per DM standards and specification			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Thrust boring with size of 2x200mm diameter (For conduit/lateral) accordance with the DM/RTA standard and Specifications. (Conduit & Lateral measured separately)		m	10

D	Thrust boring with size of 1x300mm diameter (For auto irr. mainline) accordance with the DM/RTA standard and Specifications. (Mainline separately)		m	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/6

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	Non disruptive methods for road crossings (Cont'd...)			
Note	Access pits for NDRC Works including backfilling of Voids			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Depth 3.0 – 3.5m;		nr	1
B	Depth 3.5 – 4.0m;		nr	1
Code	Description			
Note	Receiving pits for NDRC Works including backfilling of Voids			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Depth 3.0 – 3.5m;		nr	1
D	Depth 3.5 – 4.0m;		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/7

Code	Description
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)
Note	PIPEWORK–SUPPORTS AND PROTECTION, ANCILLARIES TO LAYING AND EXCAVATION
Note	PIPE WORKS
Note	Drip Irrigation System
Note	16 mm dia (O.D.) linear low density polythelene tubing (As per specification including in line P.C. emitters, accessories, stakes, take–off connections, riser pipe from laterals, as specified & as detailed on drawings.)

Code	Description	Remarks	Unit of Measurement	Quantity
A	1/2" Poly pipe class C (between trees)		m	3,376
B	Loop of dripper line for trees in plant/grass area		nr	50
C	Loop of dripper line for trees in gravel area/open space		nr	790
D	Dripper line for Speciman shrubs		nr	50
E	Dripper line for Mass Shrubs		m	100
F	Dripper line for low density Shrubs		m	8,581
G	Dripper line for Hedges		m	4,072
H	Dripper line for Ground cover		m	38,151
J	Dripper line for Ornamental Grass		m	14,303
K	Dripper line for Bougainvillea		m	100
L	Dripper line for Succulents		m	100
M	Dripper line for Seasonal flower		m	100
N	Bubbler for palms		nr	10
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/8

Code	Description	Remarks	Unit of Measurement	Quantity
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	FITTINGS AND VALVES			
Note	CONTROL VALVES (Refer to specifications)			
Note	Automatic remote control solenoid valve assemblies including excavation, backfilling but not limited to connection from Mainline, riser pipes, branch tee, reducer, elbow, transition adaptors, union adaptors, brass gate valves, inline Y-Strainer filter, brass nipple, Solenoid valve with PRS, blockwork, valve box, gravel, PVC conduit in/out, AWG14 cable (1m expansion inside the box), wire connectors,			
Note	Aluminium identification tags etc., as shown on drawing; depth not exceeding 1.0 m as detailed in the drawing.			
Note	Solenoid Valves			
Code	Description	Remarks	Unit of Measurement	Quantity
A	1" diameter solenoid valve with PRS		nr	2
B	1½ " diameter solenoid valve with PRS		nr	2
C	2" diameter solenoid valve with PRS		nr	5
D	3" diameter solenoid valve with PRS		nr	5

Code	Description			
Note	Supply install Station decoder, including excavation, valve box, block works, gravel, connectors, foam, identification label, longbend as detailed in drawing and specification			
Code	Description	Remarks	Unit of Measurement	Quantity
E	Single station decoder.		nr	5
F	Two station decoder.		nr	9
Code	Description			
Note	Smart Solenoid Valves with built-in decoder			
Code	Description	Remarks	Unit of Measurement	Quantity
G	1" diameter solenoid valve with PRS		nr	2
H	1½ " diameter solenoid valve with PRS		nr	2
J	2" diameter solenoid valve with PRS		nr	5
K	3" diameter solenoid valve with PRS		nr	5
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/9

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	FITTINGS AND VALVES (Cont'd...)			
Note	CONTROL VALVES (Refer to specifications) (Cont'd...)			
Note	Air Release valve on Mainline depth not exceeding 1.5m including, riser, gate valve, Tee/elbow from mainline, Valve box, gravel mulch, blockwork, pipe pieces, concrete supports, M.S. pipe with denso tape, Aluminium identificatoin tags etc. as shown on detail drawings, location as shown on plan.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	2" Air valve on Automatic irrigation network		nr	2
Code	Description			
Note	Supply, installation of pull box, including valve box, blockwork & gravel mulch, excavation, backfilling, Aluminium identification tag & all fittings as shown on drawing.			
Code	Description	Remarks	Unit of Measurement	Quantity
B	Pull box in planted area		nr	60

C	Pull box in paved area including, ductile iron cover		nr	5
D	Supply and install 1" End flush valve complete with valve box including gravel, block support, valve box, Aluminium identification tag complete as shown in drawings.		nr	52
Code	Description			
Note	Reinforced concrete chamber for isolation valve / gate valve including engineering bricks, heavy duty manhole cover, pipe pieces, adaptors, concrete support, excavation, backfilling, air vent, ladder, waterproofing, protection board, epoxy paint inside chamber and above cover slab, chamber identification plate with SS Steel marker etc. and all other fittings as shown on drawing (valve are measured separately).			
Code	Description	Remarks	Unit of Measurement	Quantity
E	4" dia. gate valve with all fittings as shown on drawing		nr	1
F	6" dia. gate valve with all fittings as shown on drawing		nr	1
G	8" dia. gate valve with all fittings as shown on drawing		nr	4
H	10" dia. gate valve with all fittings as shown on drawing		nr	3
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/10

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	CONTROL VALVES (Refer to specifications) (Cont'd...)			
Note	Washout valves			
Code	Description	Remarks	Unit of Measurement	Quantity
A	4" dia. gate valve with all fittings as shown on drawing		nr	1
Code	Description			
Note	Isolation valves / gate valves / Washouts			
Code	Description	Remarks	Unit of Measurement	Quantity
B	1 – unit isolation / gate valve 4" diameter in a chamber		nr	1
C	1 – unit isolation / gate valve 6" diameter in a chamber		nr	1

D	1 – unit isolation / gate valve 8" diameter in a chamber		nr	4
E	1 – unit isolation / gate valve 10" diameter in a chamber		nr	3
Code	Description			
Note	For Washout valves			
Code	Description	Remarks	Unit of Measurement	Quantity
F	4" dia. gate valve with all fittings as shown on drawing		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/11

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	CONTROL VALVES (Refer to specifications) (Cont'd...)			
Note	PIPEWORK – SUPPORTS AND PROTECTION, ANCILLARY TO LAYING AND EXCAVATION			
Note	Concrete Thrust Blocks			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Volume not exceeding 0.10m3; concrete class 30/20; pipe dia not exceeding 6".		nr	10
B	Volume 0.10m3 to 0.20m3, concrete class 30/20; pipe dia not exceeding 8".		nr	20
C	Volume 0.20m3 to 0.50m3, concrete class 30/20; pipe dia not exceeding 10".		nr	15
D	Volume 0.50m3 to 1.00m3, concrete class 30/20; pipe dia not exceeding 10".		nr	12
E	Volume 1.00m3 to 2.0m3, concrete class 30/20; pipe dia not exceeding 10".		nr	10
F	Volume 2.00m3 to 4.0m3, concrete class 30/20; pipe dia not exceeding 10".		nr	2
G	Volume 4.00m3 to 6.0m3, concrete class 30/20; pipe dia not exceeding 10".		nr	1
H	Volume exceeding 6.0m3, concrete class 30/20; pipe dia not exceeding 10".		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			

Section total included in total?	No
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SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/12

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	PIPEWORK – SUPPORTS AND PROTECTION, ANCILLARY TO LAYING AND EXCAVATION			
Note	Connections to pipes/manhole			
Note	Connect proposed pipe with existing Auto irrigation network pipe (End cap/Riser) including excavation, backfill, cutting, make Branch tee with necessary fittings, to proposed automatic irrigation network as per Tender drawings.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Connect 4inch pipe to Existing 4inch auto irrigation network		nr	1
B	Connect 4inch pipe to Existing 8 inch auto irrigation network		nr	1
C	Connect 4inch pipe to Existing 6 inch auto irrigation network		nr	2
D	Connect 6inch pipe to Existing 6 inch auto irrigation network		nr	2
E	Connect 6inch pipe to Existing 8 inch auto irrigation network		nr	2
F	Connect 450mm HDPE pipe to Existing 1400mm GRP Trasmission network air release valve assembly (Supply line)		nr	1
Code	Description			
Note	Supply and installation of Tie-in connection with existing Recycled Water network, temporary semi automatic filter assembly with all accessories and associate works until the pump station commissioning and removal of all temporary TSE connection works upon commissioning irrigation pump statoin			
Code	Description	Remarks	Unit of Measurement	Quantity
G	8 inch		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	MISCELLANEOUS WORK			
Note	IRRIGATION CONTROL SYSTEM			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Irrigation Controller (for Smart control two wire), including foundations, necessary communication modules (4G or later version as per manufacturers recommendation) and including to irrigation controller requirements as shown in the detail drawings and specifications.		nr	1
B	Power supply cable 3Cx10mm2+1Cx10mm2 PVC SWA/XLPE/MDPE CU Cable		m	100
Code	Description			
Note	Power supply connection works from Pump room DB for irrigation controller including all required to complete as per Dewa regulations			
Code	Description	Remarks	Unit of Measurement	Quantity
C	Power supply from Distribution Board (DB)		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 15 AUTOMATIC IRRIGATION WORKS– Page d/15/14

Code	Description			
Note	PART 15 – AUTOMATIC IRRIGATION WORKS (Cont'd...)			
Note	MISCELLANEOUS WORK (Cont'd...)			
Note	Decoder cable network from irrigation controller to solenoid valve in conduit pipes including two wire decoder cable rate to include for all terminals etc. (conduit pipe are measured separately).			
Code	Description	Remarks	Unit of Measurement	Quantity
A	12 AWG decoder cable (two wire path).		m	300
B	14 AWG decoder cable (two wire path).		m	2,920
Code	Description			
Note	Control wire for Solenoid valve from pull box			
Code	Description	Remarks	Unit of Measurement	Quantity

C	14 AWG single core		m	450
Code	Description			
Note	Conduits for decoder cables / communication cables			
Code	Description	Remarks	Unit of Measurement	Quantity
D	1" diameter		m	2,920
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 16 IRRIGATION PS & RESERVOIR– Page d/16/1

Code	Description			
Note	PART 16 IRRIGATION PUMPING STATION AND RESERVOIR			
Note	Temporary Irrigation Pumps & screen filters			
Note	Supply, installation, testing, and commissioning of steel skid-mounted pumping system, complete with duty and standby pumps, pressure vessel, valves (gate and non-return), expansion bellows, pressure and flow switches, pump control panel, automatic screen filters, interconnecting piping, fittings, supports, and accessories.			
Note	Item to include mechanical, electrical, and instrumentation works, inlet and outlet connections from RW network to automatic irrigation network, shade cover using Kirby sheets, protective fence with lockable gate, cabling, earthing, alignment, and full testing and commissioning to achieve the specified flow and pressure, all complete as per DM standards and site requirements.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Temporary booster pumps 100m ³ /hr @ 65m head (2 Duty+1 standby)		nr	3
B	Temporary Generator to operate above pumps including connection, terminations to complete all		sum	1
C	Diesel for temporary Generator (for 1 year)		lit	18,250
Code	Description			
Note	Supply, install test and commissioning of temporary GRP panel tanks for below capacity including all civil works, inlet and outlet connection, with isolation gate valve (Not in chambers) in & out, float valve, overflow arrangement to soak pit			
Code	Description	Remarks	Unit of Measurement	Quantity
D	100 m ³ GRP panel tanks		nr	3
= "TOTAL CARRIED TO TENDER (AED) "	Amount			

Section total included in total?	No
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SECTION (d) –WORK ITEMS – PART 16 IRRIGATION PS & RESERVOIR– Page d/16/2

Code	Description			
Note	PART 16 – IRRIGATION PUMPING STATION AND RESERVOIR (Cont'd....)			
Note	PART 16 – IRRIGATION PUMPING STATION AND RESERVOIR (Cont'd...)			
Note	CIVIL WORKS			
Note	Proposed Tie-in connection works.			
Note	Supply, install test and commissioning proposed HDPE pipe tie-in connection with Existing RW 600mm network including excavation, dewatering, shoring, cutting removal of surplus material, removal of end cap and provide additional 300mm future end cap provision to complete all as per tender drawings.			
Code	Description	Remarks	Unit of Measurement	Quantity
A	355mm HDPE tie-in to 600mm dia depth upto 3.0m		sum	1
Code	Description			
Note	RW NETWORK CHAMBERS AS PER SPECS SEC.23			
Note	Reinforced concrete valve chamber including excavation, backfilling, all fittings, reducers, joints, dismantling joints, couplings, collars, steel dovel bar, ladder, making cut pieces, flange adapters, short pieces, puddle flanges, heavy duty DI cover and frame, waterproofing membrane, protection board, thrust block, lifting holes, blinding, screeds, disposal of surplus material etc. complete as per standard drawings and specifications (Valves, FCV, Flowmeter and Strainers measured seperately)			
Code	Description	Remarks	Unit of Measurement	Quantity
B	Inlet Air valve & Basket strainer Valve Chamber; Depth 1.5– 3.5m		nr	1
C	Inlet Flowmeter Chamber; Depth 1.5–3.5 m		nr	1
D	Inlet Flow Control Valve Chamber; Depth 1.5– 3.5m		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 16 IRRIGATION PS & RESERVOIR– Page d/16/3

Code	Description
Note	PART 16 – IRRIGATION PUMPING STATION AND RESERVOIR (Cont'd....)
Note	MECHANICAL WORKS – PIPE WORKS

Code	Description	Remarks	Unit of Measurement	Quantity
A	DN 300 GRP pipework for Air valve & Motorized Gate valve chamber, located at the PS plot inlet, to the flow meter chamber complete including all fittings, bends, couplings, anchor flanges, supports, etc.		sum	1
B	DN 300 GRP pipework for flow meter chamber located at the PS plot inlet, to the flow control valve chamber complete including all fittings, bends, couplings, anchor flanges, supports, etc.		sum	1
C	DN 300 GRP pipework for Flow control valve chamber, located upstream of the Reservoir inlet, to the end cap complete including all fittings, couplings, anchor flanges, supports, etc.		sum	1
Code	Description			
Note	Valves & Fittings as per DM RW standards Section 23			
Code	Description	Remarks	Unit of Measurement	Quantity
D	DN 80 Air Release valve with Gate valve & spindle, flanged; PN 16		nr	1
E	DN 300 Manual Operated Gate Valve, flanged; PN 16		nr	1
F	DN 300 Motor Operated Gate Valve, flanged; PN 16		nr	1
G	DN 300 Motor Operated Combined Flow Control needle valve, Pressure Reducing/Pressure Sustaining, FL; PN 16		nr	1
H	DN 300 Basket Type Strainer, flanged; PN 16		nr	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 16 IRRIGATION PS & RESERVOIR– Page d/16/4

Code	Description
Note	PART 16 – IRRIGATION PUMPING STATION AND RESERVOIR (Cont'd....)
Note	INSTRUMENTATION WORKS
Note	Provision , delivery, supply, install, test including Factory Acceptance Testing, configuration, programming , site calibration, pre-commissioning, commissioning, Site Acceptance Tests together with co-ordination of SCADA configuration, full end to end testing between site and remote SCADA in conjunction with DM Master Station system integrators of all necessary control system and instrumentation as specified and shown on the drawings.
Note	Provision of manufacturers representatives during the period of commissioning and testing as indicated on drawings and as specified
Note	Electromagnetic Flowmeter
Note	Electromagnetic Flowmeter having flow tube, measuring electrodes, earthing rings, transmitter and Console complete with supports and accessories – Sensor to Transmitter Cable length = 20 meters (approx.)

Code	Description	Remarks	Unit of Measurement	Quantity
A	Size: 300mm, PN 16		nr	1
B	Pressure Transmitter complete with diaphragm seal, isolation, valves, Y-strainer, supports, manifolds, accessories and impulse tubing		nr	4
C	Pressure Gauges complete with diaphragm seal, isolation valves, Y-strainer, supports, manifolds, accessories and impulse tubing.		nr	4
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 16 IRR. PS & RESERVOIR– Page d/16/5

Code	Description	Remarks	Unit of Measurement	Quantity
Note	PART 16 – IRRIGATION PUMPING STATION AND RESERVOIR (Cont'd....)			
Note	INSTRUMENTATION WORKS (Cont'd...)			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Supply, install, test & commissioning of Flood switch for Recycled water inlet chambers and pump room including connection testing and commissioning to complete as per drawings.		nr	3
B	External RTU Panel (near inlet chamber) including civil works as per DM Sewerage and Recycled Water Projects Department in compliance Latest Standards as specified in the tender documents		sum	1
C	Instrument Signal, Data and Power Cabling: All Power, Signal, Data and Control Cabling from individual Instruments in the field to the Control Panel, including all cable trays, supports, accessories, uPVC ducts, etc.		sum	1
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS–PART17 SOFTSCAPE (PLANTING) – Page d/17/1

Code	Description
Note	PART 17 – SOFT LANDSCAPE (PLANTING WORKS)

Note	Supply, plant and compost fertilizer for trees , tree ties, tree stakes, drain and other items including operation and maintenance during Defect Liability Period (DLP) as per drawings and specifications and plant schedule.			
Note	Trees			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Acacia stenophylla		nr	66
B	Albizia julibrissin		nr	25
C	Azadirachta indica		nr	13
D	Cordia sebestena		nr	58
E	Dalbergia sissoo		nr	43
F	Parkinsonia aculeata		nr	6
Code	Description			
Note	Supply, plant and compost fertilizer for succulent, ground covers, grasses, lawns and climbers including operation and maintenance during Defect Liability Period (DLP) for below items to complete as per drawings and specifications.			
Note	Shrubs			
Code	Description	Remarks	Unit of Measurement	Quantity
G	Atriplex halimus		nr	544
H	Baccharis sarothroides		nr	2,050
J	Lawsonia inermis		nr	3,674
K	Leucophyllum frutescens		nr	1,292
L	Bougainvillea Glabra		nr	612
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS–PART17 SOFTSCAPE (PLANTING)– Page d/17/2

Code	Description			
Note	PART 17 – SOFT LANDSCAPE (PLANTING WORKS) (Cont'd)			
Note	Supply, plant and compost fertilizer for succulent, ground covers, grasses, lawns and climbers including operation and maintenance during Defect Liability Period (DLP) for below items to complete as per drawings and specifications.			
Note	Hedges			
Code	Description	Remarks	Unit of Measurement	Quantity
A	Dodonaea Viscosa		nr	3,878
Code	Description			
Note	Ground covers			

Code	Description	Remarks	Unit of Measurement	Quantity
B	Acacia redolens		nr	4,036
C	Atriplex semibacatta		nr	8,284
D	Encelia farinosa		nr	26,536
E	Portulacria afra		nr	1,736
F	Rosmarinus officinalis		nr	1,480
G	Ruellia ciliosa		nr	3,712
H	Sesuvium portulacastrum		nr	8,480
J	Vitex rotundifolia		nr	7,648
K	Carissa 'Green Carpet'		nr	2,276
Code	Description			
Note	Ornamental Grass			
Code	Description	Remarks	Unit of Measurement	Quantity
L	Muhlenbergia rigens		nr	5,804
M	Pennisetum setaceum rubrum		nr	7,818
Code	Description			
Note	Supply, plant and compost fertilizer for succulent, ground covers, grasses, lawns and climbers including all other items to complete as per drawings and specifications.			
Code	Description	Remarks	Unit of Measurement	Quantity
N	Maintenance of Soft Landscape as per DM Specification after planting		Month	12
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

SECTION (d) –WORK ITEMS – PART 19 PROVISIONAL SUMS– Page d/19/1

Code	Description
Note	PART 19– PROVISIONAL SUMS
Note	Service Authority Works
Note	Note: The Provisional Sums given in the Bill of Quantities may be used in whole or in part, or not at all, on the instruction of the Engineer
Note	Percentage of adjustment for provisional sums as provided in clause 59.4 (c) of the conditions of contract shall not be applicable to any work carried out by other contractors or service authorities employed directly by the Employer. Payments to such Contractors and service authorities shall be made directly by the Employer. If the contractor is required to pay the service authorities on behalf of the Employer, the Contractor shall be eligible for Over Head costs only.
Note	The contractor shall co-ordinate with the service authorities and provide all necessary facilities as may be required and as foreseeable by an experienced contractor. The cost of such co-ordination and facilities is deemed to be included in the respective item given in Bill No.1 of the Bills Of Quantities.

Code	Description	Remarks	Unit of Measurement	Quantity
A	Provisional sum AED 200,000 for direct payment by the Employer to various authorities for final connections and for contingencies to be expended in full or part or not at all at the discretion of the Employer		sum	200,000
= "TOTAL CARRIED TO TENDER (AED) "	Amount			
Section total included in total?				No

GRAND SUMMARY – Op:1, Without Softscape (Planting) –Page e/1

Code	Description									
Note	Total carried to Tender									
= "TOTAL CARRIED TO TENDER (AED) "	Part 1 – General Items	Part 2 – Ground Investigation	Part 3 – Demolition and Site Clearance	Part 4 – Earthworks	Part 5 – Structural Metalwork	Part 6 – Roads and Pavings	Part 7 – DEWA Water Works	Part 8 – DEWA Electrical Works	Part 9 – Works for Etisalat	Part 10 – Telecom (DU) and ITS Work
Section total included in total?				No						

GRAND SUMMARY – Option:2, With Soft Landscape (Planting) – Page e/2

Code	Description									
Note	Total carried to Tender									
= "TOTAL CARRIED TO TENDER (AED) "	Part 1 – General Items	Part 2 – Ground Investigation	Part 3 – Demolition and Site Clearance	Part 4 – Earthworks	Part 5 – Structural Metalwork	Part 6 – Roads and Pavings	Part 7 – DEWA Water Works	Part 8 – DEWA Electrical Works	Part 9 – Works for Etisalat	Part 10 – Telecom (DU) and ITS Work
Section total included in total?				Yes						