ZNB4293/18A: APPOINTMENT OF A SERVICE PROVIDER / CONTRACTOR FOR REHABILITATION OF MAKHATHINI IRRIGATION CANAL ONE (1) KILOMETRE AT UMKHANYAKUDE DISTRICT

ADENDUM



1.1	CANC 1200 A	SECTION 1				
1.1	CANC 1200 A	0-00				
$\overline{}$	SANS IZUU A	PRELIMINARY & GENERAL				
	8,3	FIXED CHARGE ITEMS & VALUE RELATED ITEMS				
1.1.1	8.3.1	Contractual requirements (including Contract Works				
		Insurance, sureties, UIF, etc.)	Sum	1		
1.1.2		All survey and site control requirements, including				
		setting out and establishing supplementary				
		henchmarks	Sum	1		
1,2	8.3.2	Establishment of facilities on site				
1.2.1	8.3.2.2	Facilities for the Contractor				
1.2.1.1		a) Furnished air conditioned offices and storage sheds	C	1		
4343		(suitable for 10 people)	Sum	1		
1.2.1.2		b) Workshops	Sum	1		
1.2.1.3		c) Ablution and latrine facilities	Sum	11		
1.2.1.4		d) Tools and equipment	Sum	1		
1.2.1.5		e) Water supplies, electric power and communications				
1015			Sum	1		
1.2.1.6		f) Dealing with water supplies	Sum	1		
1.2.1.7		g) Access	Sum	1		
1.2.1.8		h) Living Accomodation	Sum	1		
1.2.1.9		i) Plant (designated plant for designated operations or	Sum.	1		
1 2 1 10	8.3.3	plant for use during stated periods)	Sum	1		
1.2.1.10 1.2.1.11	8.3.4	Other fixed charge obligations Removal of site establishment	Sum	1		
1.2.1.11	0.5.4	Geotechinal analysis and report- the rate shall include	Juili			
1.2.1.12		the testing of the soil against the load imposed by the				
		irrigation canal. The report should detail the bearing			1	
		capacity of the in situ material and make				
		recommendation on the sub-surface drainage if	Prov Sum	1	R 200 000,00	R 200 000,00
		needed. The recommendation should also reflect on				
		the stability of the in situ material as well as the				
		recommended shapes and side slopes of the canals				
		(temporary earth canal and concrete lined canal).				
1.2.1.13		Percentage mark up on 1.2.1.12	%			
1,3		Health and Safety Compliance				
1.3.1	8.3.5	Complying with Health and Safety Act	-			
1.3.1.1		a) Preparation of Health and Safety Plan	Sum	1		
1.3.1.2		b) Compilation of a Risk Assessment Plan prior to	C			
1010		construction	Sum	1		
1.3.1.3		c) Health and Safety Induction Training of employees	Sum	1		
1.3.1.4		d) Implementation of the Health and Safety Plan over	Sum	1		
1.3.1.5	0.0.0	e) Provision of safety gear as per OHS Act	Sum	1		
1.3.1.6	8.3.6	Provision for Environmental management plan				
		requirements	Sum	1		



ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 2				
2	SABS 1200 A	DAYWORK				
2.1		LABOUR				
2.1.1	8.2.7	a) Foreman	hr.			Rate Only
2.1.2		c) Semi-skilled	hr.			Rate Only
2.1.3		d) Unskilled	hr.			Rate Only
2.1.4		e) Surveyor	hr.			Rate Only
2.1.5		f) Watchman	hr.			Rate Only
2.2		PLANT				
2.2.1		a) Backactors				
2.1.1.1		i) TLB Case 480D or similar 4.6t, 39kW	hr.			Data Oak
2.2.2		b) Compactors	111.			Rate Only
2.2.2		i) Pedestrian vibrating roller (Bomag 60 or	hr.			
2.2.2.1		similar)	111.			Rate Only
2.2.2.2		ii) Pedestrian vibrating roller (Bomag 90 or	hr.			Nate Only
-:-:-		Isimilar)				Rate Only
2.2.3		c) Trucks	hr.			Rate Only
2.2.3.1		i) 6m3 tip truck	hr.		i i	Rate Only
2.2.3.2		ii) 10m3 tip truck	hr.			Rate Only
2.2.3.3		iii) LDV	hr.			Rate Only
2.2.3.4		iv) 6 000 litre watercart	hr.			Rate Only
2.2.3.5		v) 10 000 litre watercart	hr.			Rate Only
2.2.3.6		vi) 7t flatbed crane truck	hr.		0	Rate Only
2.2.3.7		vi) 7t flatbed crane truck	hr.			Rate Only
2.2.4		d) Other Plant	hr.			Rate Only
2.2.4.1		i) Hitachi UH 121 excavator or similar 26t,	hr.			
		1212kW				Rate Only
2.2.4.2		ii) Bulldozer Cat D6D or similar, 14200kg, 104kW	hr.			
						Rate Only
2.2.4.3		iii) Bulldozer Komatsu D31 or similar, 6590kg,	hr.			
		49kW				Rate Only
2.2.4.4		iv) Grader CAT 140G or similar, 16500kg, 112kW	hr.			Data Oak
2.2.4.5		v) Roller : Bomag 518 or similar	hr.			Rate Only Rate Only
2.2.4.5		vi) Front end Loader CAT 930 or similar 9620kg,	hr.			Nate Only
2,5,7,0		75kW				Rate Only
2.2.4.7		vii) Hitachi WH051D wheel excavator or similar	hr.			, ,
		10t, 566kW				Rate Only
TOTAL SECT	ION, CARRIED	TO SUMMARY	MINT.			



ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGH"	FORWARD					
1,4	8,4	TIME-RELATED ITEMS				
1.4.1	8.4.1	Contractual Requirements	Month	6		
1.4.2	8.4.2	Operate and Maintain Facilities on Site for the duration of construction	Month	6		
1.4.3	8.4.2.2	Facilities for the Contractor		6		
1.4.4		a) Furnished air conditioned offices and storage sheds	Month	6		
1.4.5		b) Workshops	Month	6		
1.4.6		c) Ablution and latrine facilities	Month	6		
1.4.7		d) Tools and equipment	Month	6		
1.4.8		e) Water supplies, electric power and communications	Month	6		
1.4.9		f) Living Accomodation	Month	6		
1.4.10		g) Dealing with water supplies	Month	6		
1.4.11	8.4.3	Supervision for the Duration of Construction	Month	6		
1.4.12	8.4.4	Company and Head Office Overhead Costs for the duration of the Contract	Month	6		
1.4.13		Provision of security for the duration of the contract	Month	6		
1.4.14	8.4.4	Provision of the community liaison officer (CLO) for the duration of contract.	Month	6		
1.4.15	8.4.5	Other Time-related Obligations	Month	6		
TOTAL SE	CTION, CARR	IED TO SUMMARY	Twist N			



ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION 3				
	ji	EARTH CANAL CONSTRUCTION AND CONCRETE				
		CANAL REPAIRS				
3.1	SANS 1200	SITE CLEARANCE				
	С					
3.1.1	8.2.1	Clear and grub (10m width stream for the earth canal)		4500		
			m	1500		
3.1.2	8.2.3	Remove and grub all trees and tree stumps regardless	No.	10		
212	8.2.5	of girth Take down existing fences and reinstate	Prov Sum	1 1	R 100 000,00	R 100 000,00
3.1.3 3.1.4	8.2.5 8.2.7	Remove and reinstate existing pipelines	Prov Sum	1	R 20 000,00	R 20 000,00
3.1.5	8.2.7	Demolish and remove concrete rubble (5800m³) from	1 10V Suiii		K 20 000,00	K 20 000,00
3.1.5	0.2.0		Sum	1		
3.1.6	8.2.9	the existing irrigation canal. Transport materials (concrete rubble) and debris to	Julii			
3.1.0	0.2.9	unspecified sites and dump (provisional)	m ^{3.} km	5800		
3.1.7	8.2.10	Remove topsoil to nominal depth of 150mm and	111 (61)	3000		
3.1.7	0.2.10	stockpile (as directed by the Engineer on site)	m³	1125	-	
		Stockbile (as directed by the Linguiseer off site)				
3.2	SANS 1200	FARTHWORKS FARTH CANAL CONSTRUCTION				
	D	EARTHWORKS - EARTH CANAL CONSTRUCTION				
	8.3.2	Excavation				
3.2.1		a) Excavate in all materials and use for backfill or				
		dispose of as ordered by the Engineer	m³	4908		
3.2.2	8.3.3	b) Extra-over item (a) above for				
3.2.3		i) Intermediate excavation	m³	578		
3.2.4		ii) hard rock excavation	m ³	291		
3.2.5	8.3.6	Overhaul				
3.2.6		a) Limited overhaul (Provisional)	m³	100		
3.2.7		b) Long overhaul (Provisional)	m³.km	200		
3.2.8	8.3.10	Topsoiling	m²	7500		
3.2.9		Place and compact selected material for canal				
		embankment	m³	1000		
3.2.10		Final trimming of canal profile to line and level	m²	10500		
3.3	1	EARTHWORKS - SUBSURFACE DRAINAGE				
, , ,	DB	a\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
3.3.1	8.3.2	a)Excavate in all material for trenches for drainage	m³			Rate Only
3.3.2		pipe in soil b) Extra-over item (a) above for	'''			Nate Offig
3.3.3		i) Intermediate excavation	m³			Rate Only
3.3.4		ii) hard rock excavation	m³			Rate Only
5.5.4		III III II I I I I I I I I I I I I I I				
CARRIED FORWARD						



	FORWARD					
3,4	SANS	BEDDING - SUBSURFACE DRAINAGE SYSTEM				
	1200LB					
	8.2.1	Provision of bedding material for trench excavated				
3.44		a Scale at a discount of a dis				
3.4.1		a)Selected granular material - 19mm crushed stones	m³			Rate Only
3.4.2		b)Selected fill material - sand	m ³			Rate Only
3.4.3	PPS 1	110mm slotted/ perforated UPVC pipes and fittings				
		complete with couplings	m			Rate Only
3.4.4	PPS 1	Grade U14 or similar approved polyester non-woven	m²			D-4- 0-4-
		filter fabric	m-			Rate Only
3,5		SUBSURFACE DRAINAGE INSTALLATION				
3.5.1		Sub-surface drainage installation on site as				
3.3.1						
		recommended by the geotechnical specialist and	Prov Sum	1	R 500 000,00	R 500 000,00
		designed by the engineer, in collaboration with the				
		geotechinal coil analycic report		100		4
3,6	SANS 1200	CONCRETE (STRUCTURAL)				
	G	CONCRETE (STRUCTURAL)				
		Formwork				
3.6.1	8.2.2	Steel formwork to suit different shapes of floor and				
		wall of canal	m ²	50		
		Steel Reinforcing				
3.6.2	8.3.2	High tensil welded mesh - Ref 193 Mesh	m²	6000		
l l		Concrete Works				
3.6.3	8.4.3	30 Mpa /19mm concrete for walls complete with				
		rubber sealant for expansion joints	m³	700		
		Unformed surface finish				
3.6.4	8.4.4	a)15 mm thick, wooden-float finish externally	m²	6600		
3.0.4	0.4.4	b)15 mm thick, steel-float finish internally	m²	6600		
		Construction joint in canal lining	'''	2000		
		Construction joint in candi illing	'''	2000		
	8.5	Construction joints and weepholes				
3.6.5		Rubber sealant for expansion joints or similar				
		approved product	m	1000		
3.6.6	PPS 2					
		Weepholes (including supply of materials and				
		construction of weepholes as per contract drawings)	Prov Sum	1	R 100 000,00	R 100 000,00
		Supply and install congrate imprognated tahria and the				
3.6.7	PPS 3	Supply and install concrete impregnated fabric on the				
		inlet and outlet of the temporary earth canal after	,	40		
		completion of the concrete works.	m²	10		
3.6.8		Testing concrete strength of the existing irrigation				
3.0.8		canal, samples to be taken at designated points by				
		the project engineer.	Prov Sum	1	R 10 000 00	R 10 000,00
i,		The Project of Britain		-	1. 10 000,00	10 000,00
3.6.9		Percentage mark-up on 3.6.8	%			
	CTION CARR		70	T. T. W.	T. U.	
TOTAL SECTION, CARRIED TO SUMMARY						



ITEM	DESCRIPTION	ACTUAL AMOUNT
	SUMMARY	
1	SECTION 1 PRELIMINARY & GENERAL	
2	SECTION 2	~
-	DAYWORK	Rate Only
3	SECTION 3	
	EARTH CANAL CONSTRUCTION AND CONCRETE CANAL REPAIRS	
	Sub-Total 1	
	10% ANCILLARY WORKS	
	Sub-Total 2	
	15% VAT	
	TOTAL TO: CI.1 FORM OF OFFER AND ACCEPTANCE	