

Talijaard

CLIENT : GERT SIBANDE DISTRICT MUNICIPALITY

CONTRACT NO : GSDM 84/2022

CONTRACT TITLE: THE UPGRADING OF TALIIJAARD PUMPSTATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK

SECTION 1200 A

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
SANS 1200 A	110.00	<u>PRELIMINARY AND GENERAL</u>				
8.3	110.01	Fixed-Charge items				
8.3.1		.01 Contractual Requirements	sum	1		
8.3.2		.02 Establish Facility on the site				
		.01 Facilities for Engineer (SANS 1200 AB)				
		a) Offices: furnished room with and 2 name-board	sum	1		
		.02 Facilities for Contractor				
		a) Offices and storage sheds	sum	1		
		b) Workshops	sum	1		
		c) Laboratories	sum	1		
		d) Living accommodation	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 (Subclause 5.5)	sum	1		
8.3.3		i) Other fixed-charge obligations	sum	1		
8.3.4		j) Remove Engineer's and Contractor's completion Site establishment on	sum	1		
8.4	110.02	Time-Related items				
		.01 Contractual Requirements	month	3		
		.02 Establish Facility on the site				
		.01 Facilities for Engineer (SANS 1200 AB)				
		a) Offices: furnished room with and 2 name-board	month	3		
		b) Survey assistants and material	month	3		
		.02 Facilities for Contractor				
		a) Offices and storage sheds	month	3		
		b) Workshops	month	3		
		c) Laboratories	month	3		
		d) Living accommodation	month	3		
1200 A	Carried forward					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
		Brought forward				
8.4 Conti		e) Ablution and latrine facilities	month	3		
		f) Tools and equipment	month	3		
		g) Water supplies, electric power and communications	month	3		
		h) Dealing with water (Subclause 5.5)	month	3		
8.4.3		i) Supervision	month	3		
8.4.4		j) Company and head office overhead costs	month	3		
8.4.5		k) Other time-related obligations	month	3		
8.5	110.03	Sums Stated Provisionally By Engineer				
		0.2 Remuneration of Community Liason officer (include transport, cellphone,overtime)	Month	3		19 500.00
		0.3 Community Participation and PLC support	Prov sum	1		20 000.00
		0.4 Allowance for 1 No. of Students for in-service training for the duration of the Contract (the stipend include transport, cellphone,overtime)	Prov sum	1		21 000.00
8.6		0.5 Allow for testing and commissioning of new sewer pumping units	Prov sum	1		10 000.00
		0.6 Overheads,charges,and profit on item 110.03. 0.1 to 110.03 .0.20	%	70 500.00		
		Health and Safety				
		.01 Provision for use by the Engineer of an independent health and safety agent for the compilation and maintenance of Health and Safety Plan including Risk Assessment , Safe work procedures and Method statement	sum	1		
		.02 Cost of health and safety measures required in terms of the Construction Regulations (2003) of the Occupational Health and Safety act	sum	1		
		.03 Complying with requirements of the Environmental Management Plan	sum	1		
		.04 Handling cost and profit in respect of sub-item 110.04.01- .03	%	-	-	
		Carried forward				

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
		Brought forward				
8.8	110.04	Health and Safety				
8.8.1		.01 Provision for use by the Engineer of an independent health and safety agent for the compilation and maintenance of Health and Safety Plan including Risk Assessment , Safe work procedures and Method statement	sum	1		
8.8.2		.02 Cost of health and safety measures required in terms of the Construction Regulations (2003) of the Occupational Health and Safety act	sum	1		
8.8.3		.03 Complying with requirements of the Environmental Management Plan	sum	1		
		.04 Handling cost and profit in respect of sub-item 110.04.01- .03	%	-		
	110.05	Training				
		.01 Wages and salaries of local and other labourers employed by Contractor, sub-contractor and Emerging Contractors in respect of training periods for on site training by the Contractor during which no productive work is executed	Prov Sum	1		20 000.00
		.02 Accredited and approved training courses for selected local and other labourers including wages during training, as approved by Client	Prov Sum	1		20 000.00
		.03 Contractor's charge to allow for handling costs and profit in respect of sub-item (.02) above	%	40 000.00		
	110.06	Implementing COVID-19 Regulation and Plans				
		.01 Appointment of Covid-19 Compliance Officer (CCO) for the Client	Month			Rate Only
		.02 Provision for daily audit, compilation monthly audits reportsand enforcing COVID-19 Regulation and Plans on Site.	Month			Rate Only
		.03 Handling cost and profit in respect of sub-item 110.04.01-.02	%			Rate Only
1200 A	TOTAL SECTION 1200 A CARRIED TO SUMMARY					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
		<u>PRIME COST ITEMS</u>				
8.5 C		.01 Provision of accommodation for Engineer's representative for the duration of the contract	PC Sum	1		15 000
		0.2 Telephone calls for the Engineer	PC Sum	1		3 000
8.5.1		0.3 Prime cost of laboratory testing by other concerns where so directed by the Engineer	PC Sum	1		30 000
8.5.2		0.4 Engineer's Fees for Design of sewer	PC Sum	1		120 000
8.5.3		0.5 Supervision for duration of construction for Engineer	PC Sum	1		54 000
8.5.4	110.04	0.6 Social Facilitator	PC Sum	1		120 000
		0.7 Additional Survey	PC Sum	1		20 001
		0.8 Remuneration of Health and Safety Agent	PC Sum	1		157 500
		0.9 Remuneration of Health and Safety representative	PC Sum	1		52 500
		0.10 Renumeration of ECO	PC Sum	1		52 500
		0.11 Compilation of Environmental Management Plan	PC Sum	1		40 000
		0.12 Provision for use by Engineer of Environmental Specialist	PC Sum	1		60 000
		0.13 Provision for use by the Engineer of a Geotechnological Engineer	PC Sum	1		60 000
		0.14 Provision for use by the Engineer of a Electrical Engineer	PC Sum	1		60 000
8.5.6	110.05	0.15 Provision for use by the Engineer of a Mechanical Engineer	PC Sum	1		60 000
		0.16 Provision for automation on all sewer pumpstation with ultrasonic level detector	PC Sum	1		100 000
		0.17 Handling cost and profit in respect of sub-item 0.1 -.16	%	1 004 500.00		
1200 A	TOTAL SECTION 1200 A1 CARRIED TO SUMMARY					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
PI 213		TARKJARD SEWER PUMPSTATION				
	213.00	Supply, installation, testing and commissioning of MCC boards or other electricity boards	Sum	1		100 000
		Repair Pump impellers,Seals and bearings,Rising pipe,Borehole vents,Pump motor	sum	1		15 000
	213.01	Repair a non-slam type reflux valve situated at the pump outlet	no	2		
	213.02	Replace all non working gate valve	no	2		
	213.03	<u>INLET PIPEWORK AND VALVES</u>				
		Repair of inlet pipework shall include all lengths of pipe between the previous process unit and the centre stilling well outlet	m	5		
	213.04	<u>STILLING WELLS</u> Stilling wells shall be removed together with the fixed bridge and repaired with a finish to protect the stilling well against corrosion	no.	1		
	213.05	<u>EFFLUENT WEIRS</u> Where specified, effluent weirs shall be removed and reinstalled horizontally, within tolerance, to ensure equal flow distribution through the sedimentation tank. The weirs shall be sanded and painted against corrosion before reinstallation	no.	1		
	213.06	<u>EFFLUENT/OUTFLOW LAUNDERS</u> The effluent launders shall be kept clean and all algae or other growths shall be removed	No.	1		
	213.07	<u>EFFLUENT/OUTFLOW LAUNDERS</u> The effluent launders shall be kept clean and all algae or other growths shall be removed	No.	1		
		<u>MISCELLANEOUS METAL AND STRUCTURAL WORK</u> Repair Cat walks and ladders shall be sanded and painted according to the general corrosion protection specification. It shall be secured by fixing brackets and adequate bolting where applicable	No.	3		
	213.08	<u>Supernatant outflow pipes and valves</u> Remove, repair and reinstall all valves. Clean and protect all valves against corrosion.	No.	3		
	213.09	<u>OUTFLOW COLLECTION CHANNEL AND PIPELINE TO SUMP</u> Clean and corrosion protect pipework	No.	3		
	213.10	<u>ROUTINE MAINTENANCE</u> Visually inspect and report on complete system Check, service, repair and clean all pumps, mixer and blowers Corrosion protect pumps, blowers, mixer, motors and surface piping Check, inspect, report and repair all leaks Check and lubricate moving parts	MONTH	12		
	213.11	Provision of the cleaning of the sump, treating the removed material, and disposing it	Sum	1		40 000
	213.12	Supply install commission new surface pumps. Pump to deliver Q= 30,0l/sec, when H= 30,2m,as per secification	No	2		
	213.13	<u>BUILDING WORK</u> Brickwork in face (outside face) and stock bricks (inside face) to 230 mm thick walls (load bearing engineering bricks 40kN/m)	m²	100		
		Brickwork in stock bricks to 110 mm thick walls (Prov)	m²	15		
		Air bricks	No	18		
		Precast concrete lintels over doors and windows (230 mm wall thickness)	m	9		
	213.14	<u>CONCRETE</u> Blinding layer in Grade 15 MPa/19 mm Concrete, of thickness 50 mm minimum <u>Strength Concrete, Grade 35 MPa/19 mm to:</u>	m²	55		
		Walls	m³	30		
		Columns (Prov)	m³	5		
		Beams	m³	13		
		Slabs, floor slabs and staircase	m³	2		
	213.15	Provision of disinfection equipment	sum			150 000.00
1200 DB	TOTAL SECTION 1200 DB CARRIED TO SUMMARY					

PS PA FENCING						
PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
S F PS PA	140.00	FENCING				
8.3.2 (a)	140.01	Boundary Fencing				
		.01 Supply and replaced damaged Fence				
		Complete installation of ClearVu fencing made of 2400 high x 3000mm width Medium Mesh ZincAlu, 3000mm high 76 x 76 Galvanized Posts, Spider clamp kits	m	150.00		
		.02 Reinstall leaning or fallen fence				
		Complete installation of ClearVu fencing made of 2400 high x 3000mm width Medium Mesh ZincAlu, 3000mm high 76 x 76 Galvanized Posts, Spider clamp kits	m	42.00		
		.03 New gates:				
		.01 Vehicle Gate 2400 high x 6000mm wide Sliding gate, 76 x 76 Galvanized posts	no	1		
		.02 Pedestrian Gate 2400 high x 1500mm wide Sliding gates made from 76 x 76 Galvanized posts.	no	1		
		.04 Excavation in all material for Galvanized Post foundation 600mm x 450mm x 450mm	m³	10		
		.05 Extra over 0.3 for Excavation in				
		i) Intermediate Material	m³	5		
		ii) Hard Rock	m³	1		
		.06 Concrete Footing to Galvanaized Post, Class 25/19 600mm x 450mm x 450mm	m³	5		
		.07 150mm thick blinding layer, Class 15/19 450mm x 450mm x 150mm	m³	5.0		
		.08 Drilling and blasting of holes for post and anchors	number	10		
	140.02	Removal and disposing of damaged existing fencing	m	26.00		
8.3.2 (a)	140.30	INSTALLATION OF HIGH SECURITY CONTAINER FOR ELECTRICAL PANEL BY NOMINATED CONTRACTOR				
		01 Supply, deliver and install a high security container for the electrical panel				
		0.01 Manufacture, supply and delivery	PC Sum	1		291 050
		0.02 On site concrete and other civil works	PC Sum	1		82 500
		0.03 Establishment and Deestablishment	PC Sum	1		35 000
		0.04 Relocation of existing panel	PC Sum	1		22 000
		0.05 Ancillary works	PC Sum	1		80 000
		0.06 Cable Termination	PC Sum	1		33 000
		0.07 Overheads,charges,and profit on item 140.3 ... 0.01 to 0.06	%	543 550.00		
TOTAL PS PA FENCING CARRIED TO SUMMARY						

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	180.00	BUILDING WORKS				
	180.01	<u>WATERPROOFING OF THE EXISTING GUARD HOUSE AND PUMP HOUSE</u>				
		<u>ROOF COVERINGS ETC</u>				
		Roof covering with pitch not exceeding 25 degrees	m2	150		
		Ridge plate	m	150		
		ROOF AND WALL INSULATION				
		25mm Lambda Board rigid extruded polystyrene closed cell insulation board fixed concurrent with roof covering with butt joints over purlins				
		Insulation laid taut over rafters (at approximately 600mm centres) and fixed concurrent with tiling battens, purlins, etc	m2	150		
		RAINWATER DISPOSAL				
		Seamless aluminum gutters with chromadek finish				
		100x100x0.6mm standard rainwater gutters fixed with brackets	m	96		
		Extra over for closed ends	No	8		
		75x100x0.6mm standard rainwater downpipes fixed to wall	m	36		
		Extra over rainwater pipe for eave offset	No	8		
		Ditto patch, for gutters	No	64		
	180.04	EAVES, VERGES, ETC,				
		Wrought Softwood				
		12 x 225mm Fascias and barge boards including H-profile galvanised steel jointing strips	m	100		
	180.05	DOORS ETC				
		Wrought meranti doors hung to steel frames (steel frames measured elsewhere)				
		2100 x 813 x 44mm Solid Weather Board Timber Door	No	3		
		813x2032mm Semi solid core flush panel timber door	No	3		
	180.06	<u>SKIRTINGS, ETC.</u>				
		19x90mm wrought meranti timber skirting	m	80		
	180.07	<u>NAILED-UP CEILINGS</u>				
		6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips				
		Ceilings including 38 x 50mm sawn softwood branderling at 400mm centres	m2	198		
		Extra on plasterboard ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with covered with ceiling board and fitted flush opening	No	6		
		Gypsum cornices				
		75mm Gypsum Coved cornice	m	150		
		SPECIAL FITTINGS				
		Provide a sum of R50 000 ,00 (Fifty Thousand Rand) for fitted cupboards with granite worktops and fitted desk as per architect's specification	Sum	1	R	50 000.00
		Add for profit	%			
		Add for attendance	%			
	CARRIED TO FORWARD					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
	180.08	INSULATION "Aerolite" Ceiling Insulation 75mm Insulation closely fitted and laid on top of branderling between roof timbers etc	m2	150		
	180.09	<u>IRONMONGERY</u> <u>HINGES, BOLTS, ETC.</u> "ASSA ABLOY" or other equal and approved 100 x 75mm Nylon insert aluminium butt, AS HMP No,H91	No	4		
	180.10	<u>LOCKS</u> 3-lever mortice lockset Indicator lockset DOORSTOP Approved 38mm dia. Rubber door stop plugged	No No No	2 2		
	180.11	<u>LETTERS, NAMEPLATES,ETC.</u> Aluminium plate with engraved or painted letters not exceeding 0,1m2	No	2		
	180.12	BATHROOM FITTINGS Satin finished stainless steel double toilet roll dispenser size 156x 141x 303mm for 2 rolls 108mm diameter with spindle system and cylinder lock with standard Franke key plugged and screwed to the wall Satin finished stainless steel foam dispenser size 100 x 134x 304mm ,plugged and screwed to the wall Electric hand drier	No No No	1 1 1		
	180.13	METALWORK PRESSED STEEL DOOR FRAMES 1.6mm Single rebated galvanised metal frames suitable for one brick walls Frame for door size 813 x 2032mm high STEEL WINDOWS ,DOORS ETC Window type NE7, 533 x 654mm high including burglar bars Window type ND2, 1022 x 1245mm high including burglar bars Window type ND10, 1511x 1245mm high including burglar bars Window type NC11F, 2000x 949mm high including burglar bars ROLLER SHUTTER 1200 x 2100mm high over counter "Serranda" or similar approved roller shutter door with overhead box ancillary components including 4,5mm thick end plates in line with specifications STEEL LOCKERS Cubical Solutions 2T Locker (Code CSL/CHPL/304/2), overall size 300 x 450 x 1900mm high (1800mm high locker and 100mm plinth), compromising 4mm compact high pressure laminate white carcasses with 12mm Pastel Grey compact high pressure laminate doors including auto return hinges (Code:CSSH/E112) and D Shapped keeps (Code: (CSLI/LK/3_ for padlocks (no locking mechanism included), lock cover plate and handles (Code:CSLI/HI/9) or similar approved	No No No No No No No Sum	1 1 1 1 1 1 1		
		Add for profit	%			
		Add for attendance	%			
		CARRIED TO FORWARD				30 000

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	180.14	GALVANISED PRESSED STEEL DOOR FRAMES				
		Single rebated door frames				
		Single rebate galvanised pressed metal door frame for door size 813 x 2100mm	No	3		
	180.15	PLASTERING				
		SCREEDS				
		INTERNAL PLASTER				
		Cement plaster on brickwork				
		On walls	m2	250		
		On narrow widths not exceeding 300mm wide	m2	0		
	180.16	TILING				
		600 x 600 x 10mm Fully body porcelain tiles delivered to site and including fixed with TAL Goldstar adhesive and flush pointed with grey waterproof jointing compound including waste				
		On floors and landings	m2	150		
		On walls	m2	150		
		100mm High porcelain skirting	m	150		
	CARRIED TO FORWARD					

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PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	180.19	SANITARY FITTINGS "Duravit" Ceramic or similar approved Vitreous china semi-close coupled suite color white, overall size 680 x 360 x 820mm high with Thermosate Soft-close seat, comprising 90Deg Outlet open rim pan with matching 9 litre front single flush cistern including lid, fitments and flushpipe, 510 x 405mm Wall mounted basin with one taphole, including integrated overflow attachment (code 8784ZO) and chainstay hole including floor mounted pedestal	No No	1 1		
	180.20	STAINLESS STEEL FITTING Manufactured by "Franke" or similar approved Kitchen sink 1 bowl 1 drainer stainless steel drop in FRANKE PLN611 800 x 460 x 140mm with stainless screws,	No	1		
	180.21	WASTE UNIONS ETC Manufactured by "Cobra Watertech" or similar approved 40mm "301 CP" chromium plated basin waste union with plug, chain, stay, flange and slotted shank, (Basin with overflow)	No	1		
	180.22	TAPS, VALVES, ETC Manufactured by "Cobra Watertech" or similar approved 22mm stopcock 22mm fullway gate valve 22mm Non-return valve 15mm "Carina" chromium plated pillar tap PBI,10RB 22mm vacuum breaker PA1,1L+RB "Closy" 400 kpa pressure reducing valve with PBI,10RB vacuum breaker	No No No No No No	2 2 2 2 2 2		
	180.23	TRAPS ETC Manufactured by "Cobra Watertech" or or similar approved 50mm Rubber reseal "P" or "S" trap	No	6		
	180.24	TESTING Testing waste pipe system	Sum	1		
	CARRIED FORWARD					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	180.25	WATER SUPPLIES				
		Class 1 Copper (hard drawn) pipes				
		25mm Pipes laid in and including selected granular material in trenches not exceeding 1,5m deep	m	50		
		15mm Pipes	m	25		
		22mm Pipes	m	25		
		22mm Pipes chased into brickwork including brown paper lagging	m	25		
		35mm pipes to walls,etc	m	25		
		Extra over Class 1 copper (hard drawn) pipes for capillary fittings				
		15mm Fittings	No	10		
		22mm Fittings	No	10		
		22mm Conex tee	No	3		
		22 x 15mm Reducer	No	3		
		35mm Reducer	No	3		
		15mm Elbow	No	3		
		35mm elbow	No	3		
		35mm Tee	No	3		
		15mm Tee	No	3		
		15mm Reducing tee	No	3		
		15mm Threaded elbow	No	3		
		15mm Threaded union	No	3		
	180.26	SUNDRIES				
		High pressure Geyser (150L) complete with fittings, support and electrical connection	No	3		
		Franke ZIP Hydroboil 5 Litre Stainless Steel	No	3		
	180.27	TESTING				
		Testing water pipe system	Sum	1		
	CARRIED TO FORWARD					

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	180.28	PAINTWORK PAINTWORK ETC TO EXISTING BUILDING ON INTERNAL FLOATED PLASTER SURFACES One coat primer and two coats interior quality PVA emulsion paint On internal walls	m2	280		
	180.29	ON INTERNAL GYPSUM PLASTER SURFACES One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use Ceilings and beams (Color: "White") On fascias	m2 m2	180 80		
	180.30	ON WOOD SURFACES Three coats of high gloss varnish Doors Two coats of "plascon velvago" gloss enamel paint Doors	m2 m2	12 36		
	180.31	Grain filling and three coats clear eggshell polyurethane varnish On skirting, etc not exceeding 500mm girth Two coats "Carbolineum" wood primer On exposed roof timbers at eaves and verges	m m2	60 20		
	180.32	ON METAL SURFACES One coat alkyd based universal undercoat and one coat superior quality universal enamel paint Door frames One coat galvagrip primer, one undercoat and two coats Super Universal enamel paint on galvanised steel On gates On gutters and downpipes On burglar bars	m2 m2 m2 m2	20 7 7 7		
	180.33	GLAZING GLAZING TO STEEL WITH PUTTY 4mm Clear float glass Panels exceeding 0,5m² and not exceeding 2m² Panels exceeding 2m² and not exceeding 4m² MIRRORS,ETC Chrome Regular Shaped Wall Mirror with frosted boarder Mirror 900 x 800mm High	m2 m2 m2 No	5 10 1		
TOTAL BUILDINGS WORKS CARRIED TO SUMMARY						

SECTION M PS PS ELECTRICAL WORKS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
SANS 1200 DB PSDB 8.3.2 (a)	160.00	GENERATORS AND ELECTRICAL WORKS				
		PIPE TRENCHES				
	160.01	Pipe excavation:				
		.01 Excavate in all materials for trenches backfill, compact, and dispose of surplus/unsuitable material, for pipes: 200 mm diam. for total trench depth:				
		.01 Exceeding 0,0 m but not exceeding 1,0 m	m	50		
		.02 Exceeding 1,0 m but not exceeding 2,0 m	m	25		
	161.02	ELECTRICAL				
	.02.01	BUILDINGS				
		Supply & Install Electrical distribution boards as specified and as per the detail line diagrams complete with doors, frames, sub-frames, chassis, fixtures, fittings, with spare space and including all switching equipment.				
		(a) Guardhouse	no	1		
		(b) Pumphouse	no	1		
		CONDUIT AND ACCESSORIES AS SPECIFIED FOR SMALL POWER AND LIGHTING. Supply & Install Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
		(a) 20mm	m	50		
		(b) 25mm	m	50		
	.02.02	ROUND BOXES Round conduit boxes as specified placed in position for casting into concrete, built or chased into				
		(a) 50mm round boxes	no	20		
	.02.03	WALL BOXES Wall boxes as specified placed in position for casting into concrete, built or chased into brickwork				
		(a) 100 x 50 x 50mm	no	9		
		(b) 100 x 100 x 50mm	no	22		
	.02.04	BLANK COVERS. (a) 100 x 100mm	no	3		
	.02.05	DRAW WIRE. Supply and Install 1.5mm galvanised draw wire pulled into sleeve / conduit	m	50		
	.02.06	CONDUCTORS. 600/1000V grade PVC insulated stranded copper conductors drawn in conduit. Supply and Install the following conductors.				
		(a) 2.5mm ² PVC cable	m	50		
		(b) 4.0mm ² PVC cable	m	100		
		CARRIED FORWARD				

SECTION M PS PS ELECTRICAL WORKS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT		
BROUGHT FORWARD								
PK 14	.02.07	(c) 6.0mm2 PVC cable		100				
		Bare stranded copper earth conductors drawn in conduit.						
		(a) 2.5mm2	m	100				
	(b) 4mm2	m	75					
	.02.08	APPLIANCES.						
		Apparatus complete with cover plates fixed in flush boxes in the position as indicated on the drawings, draw boxes measured somewhere else						
		(a) 16 Ampere round 3-pin 250 V grade, Single switched socket outlet	no	5				
		(b) 16 Ampere round 3-pin 250 V grade, red Single Double switched socket outlet with flat earth	no	5				
		(c) 16 Ampere round 3-pin 250 V grade, red Single Double switched socket outlet with flat earth on power skirting	no	3				
		(d) 16 Ampere 250 V grade, single lever One way light switch	no	5				
		(e) 15 Ampere Photo cell fitted in bulkhead fitting.	no	3				
		(f) 40 Ampere 2 Pole Stove Isolator isolator.	no	1				
	.02.09	LUMINAIRES.						
		Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps.						
		Type A (2x58w Fluo Open Channel)	no	5				
		Type B1 (2x18w Weather Proof Bulkhead Lights)	no	5				
		Type B2 (2x18w Round Bulkhead Lights)	no	5				
		EARTHING, BONDING AND LIGHTING PROTECTION.						
		Earth and bond the complete electrical installation per building in compliance with SABS Code of Practise.						
		Supply 16mm2 stranded bare copper earth conductor.	m	50				
	.02.10	Supply and Install 16mm 1500mm long "Cadweld" copper coated earth electrodes, complete with clamp, driven into ground.		no	1			
		Supply and Install terminations of 16mm2 stranded bare copper earth conductor to roof sheeting and earthing electrodes including all fixing accessories.		no	1			
		Allow amount for Bonding of entire installation including all fixing accessories.		no	1			
		The complete Eathing and Lightning Protection installation for the building		no	1			
		BUILDING ENTRY SLEEVES.						
		Supply, deliver, store and install where specified on drawings the following sleeves, inclusive of loading and off-loading.						
		50mm dia. Kabelflex Sleeves for power cable		m	50			
		.02.11	TESTING AND COMMISSIONING.					
	Test and commission the complete installation as per the Distribution Standard and issue all the necessary test certificates		no	1				
	.02.12	OUTSITE LIGHTING						
		Supply and Install Complete of the following:						
		18m Mid Hinge Mast complete with 6 way Bracket Galavanised including Spike		No	2			
		Excavation and Concrete Mast Foundation Class 30/19		m3	8			
		Electrical Installation inside Mast including Earthing with 2 x 1.2m earth spikes		no	1			
		600W LED Floodlights complete with Lamp including Aiming of lights		no	1			
		Charges for hiring of Crane Truck		no	1			
		MAINTENANCE KIT						
		Portable Hand-winch complete with cable		no	1			
		TESTING AND COMMISSIONING						
		Test and commission the complete installation as per the Distribution Standard and issue all the necessary test certificates		no	1			
		.02.13	GENERATOR					
			(a) Supply material and construct structural steel shed for the generator		no	1		
			(b) Installation of the 75KVA generator,fuel tank and container		no	1		
			(c) Testing and commissioning of the generator		no	1		
TOTAL SECTION M PS PS ELECTRICAL WORKS CARRIED TO SUMMARY								

SUMMARY OF SCHEDULE OF QUANTITIES

SCHEDULE	DISCRPTION	UNIT	QUANTITY	RATE	AMOUNNT
1	GENERAL				
2	PRIME COST ITEMS				
3	TAKJARD SEWER PUMPSTATION.....				
4	FENCING.....				
6	BUILDING WORKS				
7	GENERATORS AND ELECTRICAL WORKS.....				
TOTAL OF SCHEDULE OF QUANTITIES					
CALCULATION OF TENDER SUM					
TOTAL OF SCHEDULE OF QUANTITIES					
CONTINGENCIES @ 10%					
The Sum provided here is under the sole control of the Engineer and may be					
deducted in whole or in part					
SUBTOTAL A					
SUBTOTAL B					
VALUE-ADDED TAX (VAT)					
The tenderer shall add 15% of the subtotal for value-added tax					
TENDER SUM CARRIED TO FORM OF TENDER					