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Brought Forward			R
<b><u>CONCRETE RAMPS</u></b>			
<b><u>Excavation in compacted imported fill not exceeding 1m deep below reduced level (reduced level not exceeding 2m below ground level)</u></b>			
4	Trenches	m3	10
<b><u>Extra over all excavations for carting away</u></b>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	10
<b><u>Risk of collapse of excavations</u></b>			
6	Sides of trenches and holes excavations not exceeding 1,5m deep	m2	52
<b><u>Keeping excavations free of water</u></b>			
7	Keeping excavations free of all water other than subterranean water		Item
<b><u>Compaction of surfaces</u></b>			
8	Compaction of ground surface under floors etc	m2	21
<b><u>Soil insecticide</u></b>			
9	To bottoms and sides of trenches etc	m2	73
<b><u>25MPa/19mm concrete</u></b>			
10	Ramps	m3	11
<b><u>Test block</u></b>			
11	Making and testing 150 x 150 x 150mm concrete strength test cube	No	6
<b><u>Finish top surfaces of concrete to an evenly ribbed non-slip surface</u></b>			
12	Ramps	m2	66
Carried Forward			R
Section No. 5 SITE WORKS Bill No. 11 SEGMENTED PAVING Takgalang Consulting			

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CONSTRUCTION OF MARITE POLICE STATION  
SOUTH AFRICAN POLICE SERVICES  
MPUMALANGA PROVINCE

Brought Forward			R
<b><u>Rough formwork to sides</u></b>			
13	Edges, risers, ends, etc. not exceeding 300mm high or wide	m	72
<b><u>Rough formwork to soffits</u></b>			
14	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m2	20
15	Slabs with sloping soffits	m2	42
<b><u>Mild steel and high tensile reinforcement to structural concrete work</u></b>			
16	Various diameter bars	t	1.14
<b><u>Brickwork of NFX bricks or similar approved bricks in class II mortar</u></b>			
17	One brick wall	m2	31
<b><u>Brickwork reinforcement</u></b>			
18	150mm Wide reinforcement built in horizontally	m	90
<b><u>"Corobrick Country Cottage Travertine Imperial FBS" or similar approved face bricks</u></b>			
19	Extra over brickwork for face brickwork	m2	31
<b><u>Brick-on-edge header course copings, sills, etc. of "Corobrik Silvergray Satin Imperial FBX" or other similar approved face bricks pointed with recessed joints on all exposed faces</u></b>			
20	Coping on top of one brick wall	m	14
Carried Forward to Summary of Section No. 5			R
Section No. 5 SITE WORKS Bill No. 11 SEGMENTED PAVING Takgalang Consulting			

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>KERBING, CHANNELLING, EDGE BEAMS, ETC</u></b></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Civil Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Items in this section shall be deemed to fall into relevant Work Groups for CPAP formula purposes, each as described previously herein.</p>				
	<p><b><u>PRECAST KERBING</u></b></p> <p><b><u>Fig 8c kerbing bedded in 20MPa concrete</u></b></p>				
1	Straight sections	m	340		
2	Curved sections, radius over 4m, but up to and including 20m	m	34		
3	Curved sections, radius over 1m, but up to and including 4m	m	34		
	<b>Carried Forward</b>				
	<p>Section No. 5 SITE WORKS Bill No. 12 KERBING, CHANNELLING, EDGE BEAMS, ETC Takgalang Consulting</p>				
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**CAST IN-SITU EDGE BEAMS**

**Supply and install cast in-situ concrete elements**

Cast in-situ strength concrete 30Mpa/19mm edge beam size 150mm wide x 175mm high, wood floated on top, angle rounded edges and 10mm thick expansion joints at 3m centres Roads Standard Details Dwg

4	Straight sections	m	20
5	Curved sections, radius over 4m, but up to and including 20m	m	10
<u>Cast in-situ strength concrete 30Mpa/19mm transitions Roads Standard Details Dwg</u>			
6	Fig.7 kerbing to mountable kerbing, 2000mm long	No	10
7	Fig.7 kerbing to 150mm wide edge beam, 2000mm long	No	5
8	150mm Wide edge beam to 300/400mm wide mountable kerbing, 2000mm long	No	5

Carried Forward to Summary of Section No. 5

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Section No. 5  
SITE WORKS  
Bill No. 12  
KERBING, CHANNELLING, EDGE BEAMS, ETC  
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CONSTRUCTION OF MARITE POLICE STATION  
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Item No	<b><u>SECTION NO. 5</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO. 13</u></b>				
	<b><u>ANCILLARY ROADWORKS</u></b>				
	NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill				
	NOTE: The contractor is advised to study the Civil Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.				
	NOTE: Items in this section shall be deemed to fall into relevant Work Groups for CPAP formula purposes, each as described previously herein.				
	<b><u>TRAFFIC SIGNS ERECTED COMPLETE</u></b>				
	<b><u>Statutory signs, street names, etc supplied and erected complete as per Roads Standard Details Dwg</u></b>				
	<u>Provision and erection of regulatory traffic signs for design standard, complete</u>				
1	Stop sign (R1)	No	2		
2	Yield sign (R2)	No	1		
	<u>Provision and erection of warning traffic signs for design standard, complete</u>				
3	T-junction (W104)	No	1		
	<u>Provision and erection of information traffic signs for design standard, complete</u>				
4	Cul-de-sac (IN4)	No			Rate Only
	Carried Forward			R	
	Section No. 5 SITE WORKS Bill No. 13 ANCILLIARY ROADWORKS Takgalang Consulting				

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CONSTRUCTION OF MARITE POLICE STATION  
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		Brought Forward		R
<u>Provision and erection of street names complete</u>				
5	Single name plate	No		Rate Only
6	Double name plate	No		Rate Only
<b><u>ROAD MARKINGS</u></b>				
<u>Non - reflectorised paint applied at a nominal rate of 0.42l/m<sup>2</sup></u>				
<u>White lines (broken or unbroken)</u>				
7	100mm Lines	m	300	
8	White characters and symbols	m <sup>2</sup>	4	
<u>Retro-reflective paint applied at a nominal rate of 0.42l/m<sup>2</sup></u>				
9	100mm Lines	m	200	
10	White characters and symbols	m <sup>2</sup>		Rate Only
<b><u>SETTING OUT</u></b>				
<u>Setting out and premarking</u>				
<u>Lines (excluding traffic island, symbols, etc)</u>				
11	Lines	m	200	
<b>Carried Forward to Summary of Section No. 5</b>				R
Section No. 5 SITE WORKS Bill No. 13 ANCILLIARY ROADWORKS Takgalang Consulting				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>RETAINING STRUCTURES</u></b></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Items in this section shall be deemed to fall into relevant Work Groups for CPAP formula purposes, each as described previously herein.</p>				
	<p><b><u>PRECAST CONCRETE RETAINING WALLS</u></b></p> <p><b><u>Excavations</u></b></p>				
1	Excavate in earth for surface trenches not exceeding 2m deep in natural or reduced ground level	m3	55		
	<p><b><u>Extra over all excavations for carting away</u></b></p>				
2	Surplus material from excavations and/or stock piles on site to a dumping site	m3	55		
	<p><b><u>Risk of collapse of excavations</u></b></p>				
3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	147		
	<p><b><u>Keeping excavations free of water</u></b></p>				
4	Keeping excavations free of all water		Item		
	<b>Carried Forward</b>				R
	<p>Section No. 5 SITE WORKS Bill No. 14 RETAINING STRUCTURES Takgalang Consulting</p>				

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CONSTRUCTION OF MARITE POLICE STATION  
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Brought Forward			R
<b><u>Filling, etc.</u></b>			
5	Approved earth filling supplied by the Contractor as backfilling behind loffelstein and around foundation walls and compacted to 95% AASHTO Density	m3	496
<b><u>Soil insecticide</u></b>			
6	To bottoms and sides of trenches, holes, etc	m2	226
<b><u>Mass concrete</u></b>			
7	20 Mpa Unreinforced concrete in foundation footings	m3	28
<b><u>Test block</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube	No	14
<b><u>"Loffelstien" precast concrete interlocking planter units finished smooth on exposed surfaces</u></b>			
9	"Loffelstein" blocks 500mm long packed on concrete foundation and up earth bank at 45 degrees including cutting back bank as necessary, trimming, filling stacked blocks with topsoil, compacting, etc	m2	662
10	Geotextiles such as Biomac from Maccaferr or Similar, Rolled erosion Control	m2	662
Carried Forward to Summary of Section No. 5			R
Section No. 5 SITE WORKS Bill No. 14 RETAINING STRUCTURES Takgalang Consulting			

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>GARDEN WALLS, SITE ENCLOSURE, ETC.</u></b></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Items in this section shall be deemed to fall into relevant Work Groups for CPAP formula purposes, each as described previously herein.</p>				
	<p><b><u>BOUNDARY WALLS, GARDEN WALLS, SCREEN WALLS, ETC.</u></b></p> <p><b><u>Excavation in compacted imported fill not exceeding 1m deep below reduced level (reduced level not exceeding 2m below ground level)</u></b></p>				
1	Trenches	m3	91		
2	Holes	m3	22		
	<b><u>Extra over all excavations for carting away</u></b>				
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	102		
	<b><u>Risk of collapse of excavations</u></b>				
4	Sides of trenches and holes excavations not exceeding 1,5m deep	m2	697		
	<b>Carried Forward</b>				R
	<p>Section No. 5 SITE WORKS Bill No. 15 GARDEN WALLS, SITE ENCLOSURE, ETC. Takgalang Consulting</p>				

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CONSTRUCTION OF MARITE POLICE STATION  
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		Brought Forward		R
<b><u>Keeping excavations free of water</u></b>				
5	Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING , ETC</u></b>				
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%Mod AASHTO density</u></b>				
6	Backfilling to trenches, holes, etc	m3	57	
<b><u>SOIL POISONING</u></b>				
<b><u>Soil insecticide - Chlordane or Aldrin according to manufacturers specification, including 50mm sand cover over. Compliance certificate with 10 year quarentee to be provided</u></b>				
7	To bottoms and sides of trenches etc	m2	800	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>25MPa/19mm concrete</u></b>				
8	Bases	m3	11	
9	Foundation beams	m3	91	
<b><u>TEST BLOCKS</u></b>				
10	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	51	
<b><u>Mild steel and high tensile reinforcement to structural concrete work</u></b>				
11	Various diameter bars	t	0.12	
<b><u>MASONRY</u></b>				
		Carried Forward		R
Section No. 5 SITE WORKS Bill No. 15 GARDEN WALLS, SITE ENCLOSURE, ETC. Takgalang Consulting				

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Brought Forward			R
<u>Brickwork in NFP bricks (7MPa nominal compressive strength) in class II mortar with all joints grouted in solid with liquid cement mortar</u>			
12	Piers	m3	12
13	One brick wall	m2	1,268
<b><u>BRICKWORK SUNDRIES</u></b>			
14	150mm Wide reinforcement built in horizontally	m	3,728
<b><u>FACE BRICKWORK</u></b>			
<u>"Country Meadow Travertine FBS" or similar approved face bricks pointed with recessed horizontal and vertical joints</u>			
15	Extra over brickwork for face brickwork	m2	2,535
<u>Brick-on-edge header course copings, sills, etc of "Country Meadow Travertine FBS" or similar approved face bricks in stretcher bond with flush joints</u>			
16	220mm Coping on top of one brick wall	m	507
<b><u>PALISADE FENCING</u></b>			
<u>Steel palisade (not galvanized) fencing with 125 x 125 x 3mm pyramid column cappings, of 40 x 40 x 3mm angle top and bottom rails, 40 x 40 x 3mm angle iron verticals welded to horizontal supports at 160mm centres and posts of 100 x 100 x 3mm mild steel columns at 3000mm centres cast in and cast into 300 x 300 x 450mm concrete pad</u>			
17	Palisade security fencing 2125mm high	m	340
<u>One coat "Plascon Merit Metal Primer", one undercoat and coats "Plascon Velvaqlo Satin" emulsion paint to specification</u>			
18	On palisade panels (both sides measured over the full flat area)	m2	721
Carried Forward			R
Section No. 5 SITE WORKS Bill No. 15 GARDEN WALLS, SITE ENCLOSURE, ETC. Takgalang Consulting			

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		Brought Forward			R
		<b><u>GATES</u></b>			
		<b><u>Purpose made welded, framed and bolted remote controlled gates formed of 75 x 75 x 3mm square tubing stop end column cast in 300 x 300 x 450mm concrete pad foundation and 75 x 75 x 3mm square tubing guide with rollers at the other end, 100 x 50 x 3mm rectangular tube frame with three spike palisade verticals of 40 x 40 x 3mm angle iron with angled horizontal ends welded to horizontal supports at 160mm centres, braced with two diagonal 50 x 50 x 3mm square tubes, including two heavy duty sliding wheels on 50 x 50 x 3mm angle iron steel rail reinforced into concrete, heavy duty gate motor: bio-industrial sliding gate motor with battery driven high torque 24V DC motor, coupled to a robust gearbox (Gate motor measured elsewhere) (Refer to detail G7 on drawing A013-4-6)</u></b>			
19	Single gate size 6 040 x 2 100mm high overall (G1/G2)	No		2	
		<b><u>The following in "Cochrane" or similar approved steel mesh security fencing</u></b>			
20	Cochrane Steel Clear VU 11 high density anti-climbing and anti-cut pressed mesh panel fencing 2,1m high, formed of 4mm diameter horizontal and 4mm diameter vertical high tensile line galvanised with paint primer and coloured finish coat wires with aperture size 76,2mm x 12,7mm and reinforcing V-Section ribs, bolted with vandal resistant bolts and clamping plates to 60 x 60 x 3mm square tube posts 2,75m high at 2,34m centres with sealed end caps and 30 x 3 x 250mm long angle section ba anchors with posts bedded in 15mpa concrete bases size sill size 200 x 200mm between bases and fence with anti theft double bar rivetted to mesh and bedded in concrete sill. Top of the fence fitted with 100mm high galvanised shark tooth type spike rails, bolted to 50mm wide clearvu mesh flange bent along fence top.	m		132	
		<b>Carried Forward</b>			R
		Section No. 5 SITE WORKS Bill No. 15 GARDEN WALLS, SITE ENCLOSURE, ETC. Takgalang Consulting			

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Brought Forward				R
21	Manually operated sliding gate 6000 x 2440mm high overall, the outer frame of 75 x 75 x 5mm square tubing and 50 x 50 x 2.5mm welded mesh welded to frame work, complete with industrial type roller wheels rolling on ground track and mechanical operating mechanism and padbolt	No	1	
22	Single gate 1500 x 1800mm high of 50 x 50 x 2mm hollow section frame and 50 x 50 x 2mm hollow section horizontal middle rail, filled in with vertical cold rolled steel "C" channels of varying sizes 76 x 38 x 3mm, 50 x 25 x 2mm and 25 x 25 x 2mm; bar fitted with a pair of 25mm diameter x 80mm long pin hinges welded to post; Secure lockbox for and including 5 lever lockset with deadbolt.	No	1	
Carried Forward to Summary of Section No. 5				R
Section No. 5 SITE WORKS Bill No. 15 GARDEN WALLS, SITE ENCLOSURE, ETC. Takgalang Consulting				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 16</u></b></p> <p><b><u>MISCELLANEOUS SITE WORKS</u></b></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Items in this section shall be deemed to fall into relevant Work Groups for CPAP formula purposes, each as described previously herein.</p>				
	<p><b><u>LANDSCAPING</u></b></p> <p><b><u>Ground preparation</u></b></p>				
1	Cultivation and preparation of areas to be planted	m2	771		
	<p><b><u>Topsoil obtained from prescribed stock piles on site, including spreading and levelling</u></b></p>				
2	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	116		
	<p><b><u>Compost, lime and fertilizer</u></b></p>				
3	Compost in plant beds, holes for trees, shrubs, etc	m3	116		
	<p><b><u>Grassing, ground covers, etc</u></b></p>				
4	"Kikuyu" roots in rows at 250mm centres	m2	771		
	<p style="text-align: right;"><b>Carried Forward</b></p>				
	<p>Section No. 5 SITE WORKS Bill No. 16 MISCELLANEOUS SITE WORKS Takgalang Consulting</p>				R

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Brought Forward

R

Maintenance

- 5 Allow for maintaining landscaping for a period of 6 months, including watering, weeding, cutting, replacing dead plants, etc

Item

Carried Forward to Summary of Section No. 5

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Section No. 5  
SITE WORKS  
Bill No. 16  
MISCELLANEOUS SITE WORKS  
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Bill No		Page No	Amount
	Section No. 5		
	SITE WORKS		
	<b>SECTION SUMMARY - SITE WORKS</b>		
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2	EARTHWORKS (PIPE TRENCHES)	186	
3	EARTHWORKS (ROADS, SUBGRADE)	188	
4	MEDIUM PRESSUR PIPELINES	191	
5	BEDDING (WATER PIPES)	192	
6	SEWERS	198	
7	STORMWATER DRAINAGE	202	
8	DRILLING OF BOREHOLE	210	
9	SUBBASE	211	
10	BASE	213	
11	SEGMENTED PAVING	216	
12	KERBING, CHANNELLING, EDGE BEAMS, ETC	218	
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14	RETAINING STRUCTURES	222	
15	GARDEN WALLS, SITE ENCLOSURE, ETC.	227	
16	MISCELLANEOUS SITE WORKS	229	
	<b>Carried to Final Summary</b>		R
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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 6</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>PROVISIONAL AMOUNTS</u></b>				
	<b><u>CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)</u></b>				
1	Provide the amount of R 2 250 000.00 (Two Million Two Hundred and Fifty Thousand Rand) for Contract Skills Development Goals (CSDG)		Item		2,250,000.00
2	Add for profit		Item		
3	Allow for general attendance		Item		
	<b><u>COMMUNITY LIAISON OFFICER (CLO)</u></b>				
4	Provide the amount of R 240 000.00 (Two Hundred and Forty Thousand Rand) @ R10 000.00 per month for Community Liaison Officer		Item		240,000.00
5	Add for profit		Item		
6	Allow for general attendance		Item		
	<b><u>TOPOGRAPHIC SURVEY FOR THE ACCESS ROAD</u></b>				
7	Provide the amount of R 150 000.00 (One Hundred and Fifty Thousand Rand) for a Topographic Survey for the Access Road		Item		150,000.00
8	Add for profit		Item		
9	Allow for general attendance		Item		
	<b>Carried to Final Summary</b>				
	Section No. 6 PROJECT ASSESSMENT SCHEME Bill No. 1 PROVISIONAL AMOUNTS Takgalang Consulting			R	

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>HEALTH AND SAFETY WORK PRACTICES</u></b>				
	NOTE: The contractor is advised to study the Health and Safety Specifications (Annexure C) before pricing this bill. In the case of any discrepancies between the bill and the specification the contractor must notify the Principal Agent.				
	<b><u>HEALTH AND SAFETY FILE</u></b>				
1	Preparation & submission of health & safety file				SUM
	<b><u>HEALTH AND SAFETY WORK PRACTICES</u></b>				
2	Access Card (Client, employee, visitors & consultant)				SUM
3	Allow for appointment of competent Construction Health & Safety Officer (SACPCMP Registered)	MTHS	12		
4	Allow for appointment / training of competent Fire fighter	No	2		
5	Allow for appointment/training of competent health and safety representatives	No	4		
6	Allow for appointment / training of competent First Aider	No	3		
7	Allow for appointment /Training of competent Flag man	No	6		
8	Allow for OHS Appointment / Training (Scaffolding Erector, Scaffold Inspector, Working at Heights, Legal Liability, Incident Investigation, HIRA, Fall Protection Planner, Demolition Supervisor, etc.)				SUM
9	INITIAL (BASELINE) MEDICAL TESTS				SUM
	<b>Carried Forward</b>				R
	Section No. 7 OCCUPATIONAL HEALTH AND SAFETY Bill No. 1 OCCUPATIONAL HEALTH AND SAFETY Takgalang Consulting				

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		Brought Forward		R
<b><u>(Entry &amp; Exit Medical Fitness)</u></b>				
10	PERSONAL PROTECTIVE EQUIPMENT Eye and face protection (Safety goggles)	No	100	
11	Foot protection (Safety Boots & Gumboots)	No	250	
12	Hand protection (Gloves)	No	200	
13	Head protection (hard hats)	No	150	
14	Earmuffs	No	100	
15	Ear plugs	No	100	
16	Respiratory protection	No	20	
17	Protective clothing (Overalls)	No	200	
18	Reflective vests	No	200	
19	Sun hats	No	200	
20	other (dusk masks)	No	200	
21	EMPLOYEE WELLNESS AND COVID-19			SUM
<b><u>EMERGENCY PREPAREDNESS, RESPOND &amp; EVACUATION</u></b>				
22	First aid box		Item	
23	Stretcher and neck braces		Item	
24	Emergency siren		Item	
25	Whistle		Item	
26	Fire Blanket		Item	
27	Two-way Radio		Item	
28	Fire extinguisher		Item	
		Carried Forward		R
Section No. 7 OCCUPATIONAL HEALTH AND SAFETY Bill No. 1 OCCUPATIONAL HEALTH AND SAFETY Takgalang Consulting				

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		Brought Forward		R
		<b><u>CONSTRUCTION ACTS AND REGULATION CHARTS</u></b>		
29	OHS Acts chart	No	2	
30	BCE chart	No	2	
31	Construction regulation charts	No	2	
		<b><u>CONSTRUCTION SIGNS</u></b>		
32	No entry signs	No	6	
33	PPE signs	No	15	
34	Sanitation signs	No	10	
35	Scaffolding signs	No	40	
36	Safety stickers	No	200	
37	Heavy mobile vehicles signs	No	10	
38	Fire extinguishers signs	No	10	
39	Emergency exits signs	No	5	
40	Smoking signs	No	5	
41	First aid signs	No	10	
42	Excavation safety signs	No	10	
43	Flag for flag man	No	8	
44	Road safety signs	No	15	
		<b><u>FALL PROTECTION EQUIPMENT</u></b>		
45	Double stranded safety harness with pylon hooks		Item	
46	Fall arrest equipment		Item	
		Carried Forward		R
Section No. 7 OCCUPATIONAL HEALTH AND SAFETY Bill No. 1 OCCUPATIONAL HEALTH AND SAFETY Takgalang Consulting				



**CONSTRUCTION OF MARITE POLICE STATION  
SOUTH AFRICAN POLICE SERVICES  
MPUMALANGA PROVINCE**

*XTR. R. N. 1/11*

Section No	Page No	Amount
<b>FINAL SUMMARY</b>		
1	23	
2	105	
3	159	
4	183	
5	230	
6	231	
7	235	
SUB TOTAL		R
<b><u>CONTRACT PRICE ADJUSTMENTS</u></b>		
Allow the sum of R4,967,983.24 (Four Million Nine Hundred and Sixty Seven Thousand Nine Hundred and Eighty Three Rand and Twenty Four Cents) for Contract Price Adjustments		Item 4,967,983.24
SUBTOTAL		R
Add Value Added Tax @ 15%		R
Carried to Form of Tender		R
Takgalang Consulting		

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*CONSTRUCTION OF MARITE NEW POLICE STATION: MPUMALANGA  
PROVINCE*

*BID: 19/1/9/1/01TB (26)*

**PART C:**

**CONTRACT**

**Part C3**

**Scope of Work**



## C3: SCOPE OF WORKS

JBCC Series 2000

### CONTENTS

Document reference	Document title	No. of Pages
C3	SCOPE OF WORKS	22

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## C3: SCOPE OF WORKS

JBCC Series 2000

**Project** : Construction of New Marite Police Station: Mpumalanga Province

**Employer** : South African Police Service

**Reference** : 19/1/9/1/01TB (26)

### C3.1. DESCRIPTION OF THE WORKS

#### C3.1.1. Employer's objectives

The South African Police Service endeavours to complete the Construction of New Marite Police Station.

In addition to the above, the project aims to achieve the following:

- a) to provide a minimum Contract Participation Goal (CPG) of 5% of the total contract value and develop targeted enterprises by the main or lead partner contractors
- b) to train learners in Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates (which ever is applicable after award of the tender)
- c) to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines

The **employer** intends to appoint a suitable **contractor** to construct facilities and amenities as per the **employer** 's specifications

The general intent of this contract is that the **contractor** shall procure all items necessary to construct and complete the **works** in accordance with the terms of this contract, in a workmanlike and expeditious manner

#### C3.1.2. Overview of the works

Works included in this contract comprise the construction of a new police station, including all associated services.

The total size of the site is approximately 7481m<sup>2</sup> ha

In addition to the requirements specified, the design will ensure that the buildings comply with the national building regulations and standards of the country (SANS), the legal, safety, and health requirements, and should observe sustainable design principles

The extent of the works is detailed below, and the portion of the work relevant to the successful bidder of this document has also been stated below

#### C3.1.3. Extent of the works

The following is the high-level scope for the project:

- a) Community service centre spaces
- b) Public Ablution

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- c) Victim friendly facilities Spaces
- d) Offices
- e) Visible Policing Offices
- f) Crime Prevention Office
- g) Flash
- h) Exhibit Management
- i) Detective Services Spaces
- j) All Cases
- k) Support Services Spaces
- l) Management Information Centre
- m) Administration
- n) Administration Spaces
- o) Store Spaces
- p) Male Cells Standard Spaces
- q) Females and Juveniles Cells Standard Spaces
- r) Cell Standard Spaces
- s) Cleaners Rest Room
- t) Living Quarters
- u) Emergency Generator Room (Generator must be provided)
- v) Emergency Water Storage
- w) Air-cons and Humidifier must be provided where and if necessary
- x) Security measures as per security advisory spec.

**C3.1.4. Location of the works**

See C4: Site Information

**C3.2. WORKS SPECIFICATION**

**C3.2.1. Applicable national and international standards**

The following, but not limited to, national specifications even though not bound apply to this document, refer to purpose written specifications for all national standards:

- a) Occupation Health and Safety Act, 1993
- b) SANS 10400: National Building Regulations
- c) SANS 10400-XA: Energy Usage in Buildings
- d) SANS 10400-X: Environmental sustainability

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- e) SANS 1186-1: Symbolic safety signs - Part 1: Standard signs and general requirements
- f) SANS 10142: The wiring of premises (part 1 & 2)
- g) SANS 10389-1: Exterior lighting Part 1 Artificial lighting of exterior areas for work and safety
- h) SANS 10389-2: Exterior lighting Part 2 Exterior security lighting
- i) SANS 1765: Low voltage switchgear and control gear assemblies (distribution boards) with rated short circuit withstand strength up to and including 10kA
- j) SANS 10313: Protection against lightning - physical damage to structures and life hazard
- k) SANS 62305: Protection against lightning
- l) SANS 62040: Uninterruptible Power Systems (UPS)
- m) SANS 10252-1: Water Supply Installations for Buildings
- n) SANS 10252-2: Drainage Installations for building
- o) Local Municipality by laws & requirements
- p) SAPS Project Five Star 2012 Specifications for New and Existing Police Cell

**C3.2.2. Minimum Standard requirements**

- a) CIDB Best Practice Project Assessment Scheme (Government Gazette No.43726 of 18 September 2020)
- b) Standard for Developing Skills through Infrastructure Contracts, published in Gazette Notice 48491 of 28 April 2023
- c) Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No.36190 of 25 February 2013
- d) Guidelines for the Implementation of Labour-Intensive Infrastructure Projects Under the Expanded Public Works Programme (EPWP) – Third Edition 2015

**C3.3. DRAWINGS**

**C3.3.1. Tender Drawings**

Tender drawings are provided in order to give an overview of the project. Any ambiguities shall be clarified by the tenderer with the **employer** prior to the submission of tenders

The drawings that form part of the tender documents shall be used for tender purposes only

Drawings for construction purposes will be issued to the appointed **contractor** during the execution of the contract

The following drawings are annexed after C4: Site Information, and form part of the contract. The drawings issued to tenderers must be regarded as provisional and preliminary for the tenderer's benefit to assess the scope generally.

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## PART C3: SCOPE OF WORKS

#	DESCRIPTION	DRAWING No.	REVISION AND DATE
<b>1.0</b>	<b>ARCHITECTURAL DRAWINGS</b>		
1.1	SITE-SDP	A-000	2025 09 12
1.2	SITE-PERSPECTIVE	A-900	2025 09 12
1.3	SITE-SITE SECTIONS 1	A-300	2025 09 12
1.4	SITE-SITE SECTIONS 2	A-301	2025 09 12
1.5	SITE-ELEVATIONS	A-400	2025 09 12
1.6	SITE-SITE AND ROOF PLAN	A-100	2025 09 12
1.7	SITE-SITE SECTIONS 3	A-302	2025 09 12
1.8	SITE-APPROVED LAYOUT	A-120	2025 09 12
1.9	SITE FLAGPOLE DETAIL	A-950	2025 09 12
1.10	SITE-SOLAR CARPORT DESIGN	A-500	2025 09 12
1.11	SITE-SITE GATE SCHEDULES	A-600	2025 09 12
1.12	SITE-SPEC DOC	A-670	2025 10 02
1.13	SITE-DIRECTIONAL SIGNAGE	A-960	2025 09 12
1.14	SITE-REFUSE BLOCK AND BRAISE SOLEIL WALL BOUNDARY WALL DETAILS	A-970	2025 09 12
1.15	IRONMONGERY SCHEDULE	A-620	2025 10 02
1.16	STATION BLOCK--GROUND FLOOR PLAN QUAD A	A-200	2025 09 12
1.17	STATION BLOCK-ELEVATIONS	A-400	2025 09 12
1.18	STATION BLOCK-SECTIONS	A-300	2025 09 12
1.19	STATION BLOCK-DOOR SCHEDULES	A-600	2025 09 12
1.20	STATION BLOCK-ROOF PLAN	A-100	2025 09 12
1.21	STATION BLOCK-LOUVRE SCHEDULES	A-601	2025 09 12
1.22	STATION BLOCK-CEILING PLAN	A-210	2025 09 12
1.23	STATION BLOCK-GROUND FLOOR PLAN QUAD B	A-201	2025 09 12
1.24	STATION BLOCK-SECTIONS	A-301	2025 09 12
1.25	STATION BLOCK-ELEVATIONS	A-401	2025 09 12
1.26	STATION BLOCK-WINDOW SCHEDULES	A-602	2025 09 12
1.27	STATION BLOCK-ALUMINUM SHOPFRONT SCHEDULES	A-603	2025 09 12
1.28	STATION BLOCK- SECTIONAL ELEVATION	A-302	2025 09 12
1.29	STATION BLOCK-SECTIONAL ELEVATION	A-303	2025 09 12
1.30	STATION BLOCK-ALUMINUM SHOPFRONT SCHEDULES	A-604	2025 09 12
1.31	STATION BLOCK-PERSPECTIVE	A-900	2025 09 12
1.32	STATION BLOCK-WALL SECTIONS AND DETAILS	A-940	2025 09 12
1.33	MARRIED LIVING QUARTERS-PLANS AND SECTIONS	A-200-300	2025 09 12
1.34	MARRIED LIVING QUARTERS-PRESENTATION	A-900	2025 09 12
1.35	MARRIED LIVING QUARTERS-ELEVATIONS	A-400	2025 09 12
1.36	MARRIED LIVING QUARTERS-ELEVATIONS	A-401	2025 09 12
1.37	MARRIED LIVING QUARTERS - GROUND FLOOR CEILING AND ROOF PLAN	A-210	2025 09 12
1.38	MARRIED LIVING QUARTERS-SECTION AND SCHEDULES	A-301 & 600	2025 09 12
1.39	MARRIED LIVING QUARTERS - WALL SECTIONS AND DETAILS	A-920	2025 09 12
1.40	BACHELOR LIVING QUARTERS - PLANS & SECTIONS	A-200-300	2025 09 12

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## PART C3: SCOPE OF WORKS

1.41	BACHELORS-PERSPECTIVE VIEWS	A-900	2025 09 12
1.42	BACHELOR LIVING QUARTERS - ELEVATIONS AND SCHEDULES	A-400-600	2025 09 12
1.43	BACHELOR LIVING QUARTERS - WALL SECTIONS AND DETAILS	A-910	2025 09 12
1.44	CELL BLOCK-SCHEDULES	A-600	2025 09 22
1.45	CELL BLOCK-PLANS	A-200	2025 09 22
1.46	CELL BLOCK-ELEVATIONS 1	A-400	2025 09 12
1.47	CELL BLOCK-SECTIONS	A-300	2025 09 12
1.48	CELL BLOCK-ELEVATIONS 2	A-401	2025 09 22
1.49	CELL BLOCK-CEILING PLAN	A-210	2025 09 12
1.50	CELL BLOCK-ROOF PLAN	A-220	2025 09 12
1.51	CELL BLOCK -WALL SECTIONS AND DETAILS	A-930	2025 09 12
1.52	CELL BLOCK-PERSPECTIVE VIEWS	A-900	2025 09 12
1.53	REFUSE BLOCK - PLANS, SECTIONS, ELEVATIONS AND SCHEDULES	A-200 - 300 - 400 - 600	2025 09 12
1.54	REFUSE - PERSPECTIVE VIEWS	A-900	2025 09 12
	<b>INTERIORS DRAWINGS</b>		
1.55	BACHELORS QUARTERS - FLOOR PLAN	ID-200-BQ-01	
1.56	BACHELORS QUARTERS - SF1 DETAILS	ID-800-BQ-01	
1.57	BACHELORS QUARTERS - SF2 DETAILS	ID-800-BQ-02	
1.58	BACHELORS QUARTERS - WALL TILING ELEVATIONS	ID-400-BQ-01	
1.59	CELL BLOCK - FLOOR FINISHES PLAN	ID-200-CB-02	
1.60	CELL BLOCK - SF1 DETAILS	ID-800-CB-01	
1.61	CELL BLOCK - SF2 DETAILS	ID-800-CB-02	
1.62	CELL BLOCK - SF3 DETAILS	ID-800-CB-03	
1.63	CELL BLOCK - SF4 DETAILS	ID-800-CB-04	
1.64	CELL BLOCK - SF5 DETAILS	ID-800-CB-05	
1.65	CELL BLOCK - SF6 DETAILS	ID-800-CB-06	
1.66	CELL BLOCK - SF7 DETAILS	ID-800-CB-07	
1.67	CELL BLOCK - SHOPFITTING LOCALITY PLAN	ID-200-CB-05	
1.68	CELL BLOCK - SKIRTING FINISHES PLAN	ID-200-CB-03	
1.69	CELL BLOCK - SPACE PLAN	ID-200-CB-01	
1.70	CELL BLOCK - WALL FINISHES PLAN	ID-200-CB-04	
1.71	CELL BLOCK - WALL TILING ELEVATIONS	ID-400-CB-01	
1.72	MARRIED QUARTERS - FLOOR PLANS	ID-200-MQ-01	
1.73	MARRIED QUARTERS - SF1 DETAILS	ID-800-MQ-01	
1.74	MARRIED QUARTERS - SF2 DETAILS	ID-800-MQ-02	
1.75	MARRIED QUARTERS - WALL TILING ELEVATIONS	ID-400-MQ-01	
1.76	STATION BLOCK - FLOOR FINISHES PLAN	ID-200-SB-02	
1.77	STATION BLOCK - SF1 DETAILS	ID-800-SB-01	
1.78	STATION BLOCK - SF2 DETAILS	ID-800-SB-02	
1.79	STATION BLOCK - SF3 DETAILS	ID-800-SB-03	
1.80	STATION BLOCK - SF4 DETAILS	ID-800-SB-04	
1.81	STATION BLOCK - SF5 DETAILS	ID-800-SB-05	
1.82	STATION BLOCK - SF6 DETAILS	ID-800-SB-06	
1.83	STATION BLOCK - SF7 DETAILS	ID-800-SB-07	

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## PART C3: SCOPE OF WORKS

1.84	STATION BLOCK – SF8 DETAILS	ID-800-SB-08	
1.85	STATION BLOCK – SF9 DETAILS	ID-800-SB-09	
1.86	STATION BLOCK – SF10 DETAILS	ID-800-SB-10	
1.87	STATION BLOCK - SF12 DETAILS	ID-800-SB-12	
1.88	STATION BLOCK - SF13 DETAILS	ID-800-SB-13	
1.89	STATION BLOCK - SF14 DETAILS	ID-800-SB-14	
1.90	STATION BLOCK - SHOPFITTING LOCALITY PLAN	ID-200-SB-05	
1.91	STATION BLOCK - SKIRTING FINISHES PLAN	ID-200-SB-03	
1.92	STATION BLOCK - SPACE PLAN LAYOUT	ID-200-SB-01	
1.93	STATION BLOCK - WALL FINISHES PLAN	ID-200-SB-04	
1.94	STATION BLOCK - WALL TILING ELEVATIONS	ID-400-SB-01	
<b>2.0</b>	<b>CIVIL ENGINEERING DRAWINGS</b>		
2.1	Driveway 01& 02 Long Section	110-01	
2.2	Driveway 01 Cross Section	110-03	
2.3	Driveway 02 Cross Section	110-04	
2.4	Stormwater Layout Plan	120-00	
2.5	Stormwater Layout Plan & Long Section	120-01	
2.6	Stormwater Layout Plan & Long Section	120-02	
2.7	Sewer Layout	130-00	
2.8	Sewer Plan and Long Section	130-01	
2.9	Sewer Layout and Long Section	130-02	
2.10	Water Layout Plan	140-00	
2.11	Platform and Driveway Layout	150-01	
2.12	Platform Long section	150-02	
2.13	Platform Long section	150-03	
2.14	Platform Long section	150-04	
2.15	Pavement Design Detail	D-001	
2.16	Sewer Tank Detail	D-002	
2.17	Water tank Layout plan Details	D-003-01	
2.18	Water tank Layout plan Details	D-003-02	
2.19	Stormwater manhole Typical detail	D-004	
2.20	Grid and Field inlet Typical detail	D-005	
2.21	Sewer Manhole Typical Detail	D-006	
2.22	Sewer connection Typical detail	D-007	
2.23	Water Typical Detail	D-008	
2.24	Attenuation Pond Detail	D-009	
<b>3.0</b>	<b>STRUCTURAL ENGINEERING DRAWINGS</b>		
3.1	Bachelor Living Quarters	STR-150-05	
3.2	Cell Block	STR-150-06	
3.3	Married Living Quarters	STR-150-07	
3.4	Refuse Block	STR-150-08	
3.5	Station Block Sheet 1	STR-150-09	
3.6	Station Block Sheet 2	STR-150-10	

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## PART C3: SCOPE OF WORKS

3.7	Watertank	STR-150-05	
3.8	Boundary Wall	STR-150-06	
3.9	Ramp	STR-150-07	
3.10	Car Port	STR-150-08	
3.11	Retaining Wall	STR-150-09	
3.12	Generator Plinth	STR-150-10	
<b>4.0</b>	<b>ELECTRICAL ENGINEERING DRAWINGS</b>		
4.1	Station Block Power Layout	MPS-C-BE-TCS-TDW-001/1	
4.2	Cell Block Power Layout	MPS-C-BE-TCS-TDW-001/2	
4.3	Cleaners Rest Room Block -Power Layout	MPS-C-BE-TCS-TDW-001/3	
4.4	Bachelor Living Quarters -Power Layout	MPS-C-BE-TCS-TDW-001/4	
4.5	Married HA Living Quarters -Power Layout	MPS-C-BE-TCS-TDW-001/5	
4.6	Station Block -Lighting Layout	MPS-C-BE-TCS-TDW-002/1	
4.7	Cell Block -Lighting Layout	MPS-C-BE-TCS-TDW-002/2	
4.8	Cleaners Rest Room Block -Lighting Layout	MPS-C-BE-TCS-TDW-002/3	
4.9	Bachelor Living Quarters -Lighting Layout	MPS-C-BE-TCS-TDW-002/4	
4.10	Married HA Living Quarters -Lighting Layout	MPS-C-BE-TCS-TDW-002/5	
4.11	Refuse -Lighting Layout	MPS-C-BE-TCS-TDW-002/6	
4.12	Single Line Diagrams	MPS-C-BE-TCS-TDW-003	
4.13	Station Block Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/1	
4.14	Cell Block Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/2	
4.15	Cleaners Rest Room Block Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/3	
4.16	Bachelor Living Quarters Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/4	
4.17	Married HA Living Quarters Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/5	
4.18	Refuse -Earthing & Lightning Protection Layout	MPS-C-BE-TCS-TDW-004/6	
4.19	Site Plan -Site Power Reticulation Layout	MPS-C-BE-TCS-TDW-000	
4.20	Site Plan -Area & Perimeter Lighting Layout	MPS-C-BE-TCS-TDW-005	
4.21	Site Plan -Solar PV Modules Layout	MPS-C-BE-TCS-TDW-006	
<b>5.0</b>	<b>MECHANICAL ENGINEERING DRAWINGS</b>		
5.1	Administration Block HVAC Layout	MPS - C - BM - TCS - DDW - 001/1-TD	
5.2	Cell Block HVAC Layout	MPS - C - BM - TCS - DDW - 001/2-TD	
5.3	Bachelor Quarters Block Wet Services Domestic Layout	MPS - C - BM - TCS - DDW - 001/3-TD	

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## PART C3: SCOPE OF WORKS

5.4	Married Quarters Block Wet Services Domestic Layout	MPS - C - BM - TCS - DDW - 001/4-TD	
5.5	Site Plan Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/1-TD	
5.6	Bachelor Quarters Block Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/2-TD	
5.7	Married Quarters Block Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/3-TD	
5.8	Administration Block Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/4-TD	
5.9	Cell Block Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/5-TD	
5.10	Refuse Block Wet Services Domestic Layout	MPS - B - BM - TCS - DDW - 002/7-TD	
5.11	Bachelor Quarters Block Wet Services Drainage Layout	MPS - C - BM - TCS - DDW - 002/8-TD	
5.12	Married Quarters Block Wet Services Drainage Layout	MPS - C - BM - TCS - DDW - 002/9-TD	
5.13	Cell Block Wet Services Drainage Layout	MPS - B - BM - TCS - DDW - 002/10-TD	
5.14	Administration Block Wet Services Drainage Layout	MPS - C - BM - TCS - DDW - 002/11-TD2	
5.15	Refuse Block Wet Services Drainage Layout	MPS - C - BM - TCS - DDW - 002/13-TD	
5.16	Site Plan Wet Services Drainage Layout	MPS - C - BM - TCS - DDW - 002/14-TD	
5.17	Site Plan Fire Protection Layout	MPS - C - BF - TCS - DDW - 001/1-TD	
5.18	Bachelor Quarters Block Fire Protection Layout	MPS - B - BF - TCS - DDW - 001/2-TD	
5.19	Married Quarters Block Fire Protection Layout	MPS - B - BF - TCS - DDW - 001/3-TD	
5.20	Cell Block Fire Protection Layout	MPS - C - BF - TCS - DDW - 001/4-TD	
5.21	Administration Block Fire Protection Layout	MPS - C - BF - TCS - DDW - 001/5-TD	
5.22	Refuse Block Fire Protection Layout	MPS - C - BF - TCS - DDW - 001/7-TD	
5.23	Bachelor Quarters Block Fire Detection Layout	MPS - C - BF - TCS - DDW - 002/2-TD	
5.24	Married Quarters Block Fire Detection Layout	MPS - C - BF - TCS - DDW - 002/3-TD	
5.25	Cell Block Fire Detection Layout	MPS - C - BF - TCS - DDW - 002/4-TD	
5.26	Administration Block Fire Detection Layout	MPS - C - BF - TCS - DDW - 002/5-TD2	

### C3.3.2. Construction Drawings

Construction drawings will, in terms of Clause 3.7 of the **JBCC** Principal Building Agreement Edition 4.1 of March 2005 be issued to the **contractor** by the **principal agent** on the commencement date and from time to time as required.

The successful **contractor** will be supplied with three (3) sets of unreduced paper prints of each drawing free of charge. Any additional prints required will be for the account of the **contractor**

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The **contractor** shall conform in all aspects to the drawings and specifications and to any written instructions, which the **principal agent** may provide him with during the contract

It is the **contractor's** responsibility to ensure that work is carried out in accordance with the latest revision of the construction drawings

Only figured dimensions may be used, and the drawings shall not be scaled unless the **contractor** is so instructed by the **principal agent** in writing. The **principal agent** will upon written request provide any dimensions that may have been omitted from the drawings

Should any differences or contradictions exist in the documents or dimensions used in the documents, the **contractor** shall be responsible for obtaining clarification thereof from the **principal agent**. Such clarification shall be in writing and shall be final and binding

Should the **contractor** fail to seek clarification of any differences or contradictions, the **contractor** shall be solely liable for any costs that may arise due to his failure in this regard

**C3.3.3. As-built drawings**

The **contractor** shall mark up on drawings provided to him for this purpose the exact positions and details of all infrastructure, pipelines, and the like constructed under the contract, as well as the details of all existing services found during the contract. The marked-up drawings shall be handed to the **principal agent** monthly as the work progresses

**C3.4. PLANT AND MATERIALS**

**C3.4.1. Plant and materials supplied by the employer**

No plant and "free issue" materials are provided by the **employer**.

**C3.4.2. Materials, samples, and shop drawings**

The **contractor** shall, at his own cost, supply all samples that may be required. Material or **works** not conforming to the approved samples shall be rejected. The **employer's agent** reserves himself the right to submit samples to any tests to ensure that the material represented by the sample conforms to the requirements of the specifications

The recommendations of the manufacturers of patented materials must be strictly adhered to regarding the use, mixing, application, fastening, etc. thereof except when otherwise instructed in writing by the engineer

Where proprietary materials are specified, it is to indicate the quality or type of materials or articles required, and where the terms "or other approved", "or approved equivalent", or "similar approved" are used in connection with proprietary materials or articles, it is to be understood that the approval shall be at the sole discretion of the **employer**.

**C3.5. ACCESS TO WORKS SITE**

See item C4.5 of Part 4: Site Information

**C3.6. EXISTING SERVICES**

**C3.6.1. Known services**

Items have been allowed in the **bills of quantities** for dealing with and protecting existing services where they are known

The **contractor** shall take whatever extra precautions are required to protect all existing services from damage during the period of the contract. The **contractor** shall make use of

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hand excavation to expose services. Any damage to existing services indicated by the relevant service providers or other damage as a result thereof, shall be for the **contractor's** account

The **contractor** shall engage with the **employer**, local authority and **principal agent** to identify the positions of all existing services. Such service positions must be compared to those indicated on the drawings and any additional services so located, must be brought to the attention of the **principal agent** and marked up on the drawings. These will then become known services.

All existing services shall be regarded as live and operational until otherwise advised by the responsible service provider or official

**C3.6.2. Treatment of existing services**

Before the **contractor** commences operations, he must discuss with and have the approval of the **employer**, authority, or owner concerned regarding the method he proposes to use for relocating or safeguarding any services and existing **works** he may encounter during construction

**C3.6.3. Use of Detection Equipment**

Where the presence of underground cables is suspected the **contractor** shall use such methods as necessary, including cable or metal detectors, to prevent unnecessary damage and consequent delay and cost of repair

**C3.6.4. Damage to services**

The **contractor** shall be responsible for any damage to such existing services and **works** in the execution of this contract and shall reimburse the **employer**, authority, or the owner concerned for any repairs required and for damages

The **contractor** shall be responsible for immediately notifying the **employer** or **employer's agent** and the authorities concerned regarding any damage caused to public services and existing **works**

**C3.7. ALTERATIONS, ADDITIONS, EXTENSIONS, AND MODIFICATIONS TO EXISTING WORKS**

The **contractor** shall satisfy himself within 14 days of moving onto a site that the dimensional accuracy, alignment, levels, and setting out of existing structures or components thereof are compatible with the proposed works and procedures. Any discrepancies shall immediately be brought to the attention of the **principal agent** in writing where this is not the case

Failure by the **contractor** to timeously give written notice to the **principal agent** in this regard shall result in any claim for additional time and/or costs being rejected

New structures shall, as far as possible, match existing structures regarding the type of materials and finishes unless otherwise stated. The **contractor** shall provide the **employer's agent** with samples of bricks, blocks, and other materials and finishes for approval at least 3 weeks prior to starting any work. Only once the **principal agent** has given approval may the **contractor** place orders for these materials

**C3.8. PERMITS AND WAY LEAVES**

The **contractor** shall obtain the necessary approvals and shall be required to comply with the authorities, service providers, and landowners' / occupiers' requirements at all times



The **contractor** will be required to take cognizance of, and comply with, the general wayleave and 'permission to occupy' requirements of the authorities, service providers, and landowners/occupiers during the construction of the works

The **contractor** will be required to confirm that permission has been granted and that the authorities, service providers, landowners/ occupiers, and all affected parties have been informed of the **contractor's** intentions before commencing work on each property

**C3.9. MANAGEMENT OF THE WORKS**

**C3.9.1. Planning and programming**

The programme shall be in the form of a bar chart (Gantt Chart) or similar acceptable time/activity form reflecting the proposed sequence and tempo of the various activities. The programme shall clearly indicate the critical path, the inter-dependency of activities, and the sequence in which the **contractor** proposes to construct the **works**

During the course of the contract, whenever a significant change occurs, the **contractor** shall submit a revised programme allowing the allocation of resources, to the **principal agent** for approval. The **contractor** shall update the programme whenever construction progress differs by more than a week from anticipated in the programme

**C3.9.2. Quality plans and control**

The onus to produce work which conforms in quality and accuracy of detail to the requirements of the specifications and drawings rests with the **contractor**, and the **contractor** shall, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians, and technical staff, together with all transport, instruments, and equipment, to ensure adequate supervision and positive control of the **works** at all times

The costs of all supervision and process control, including testing thus carried out by the **contractor** shall be deemed to be included in the rates tendered for the related items of work

The **contractor's** attention is drawn to the provisions of the various standardized specifications regarding the minimum frequency of testing that will be required for process control. The **contractor** shall, at his own discretion, increase this frequency where necessary to ensure adequate control

On completion of every part of the work and submission thereof to the engineer for examination, the **contractor** shall furnish the **employer's agent** with the results of all relevant tests, measurements, and levels to indicate compliance with the specifications

The **contractor** shall at his own cost, supply all samples that may be required. Material or work not conforming to the approved samples shall be rejected. The engineer reserves the right to submit samples to any tests to ensure that the material represented by the sample conforms to the requirements of the specifications

No separate payment will be made for such testing by an approved independent laboratory, the costs of which will be deemed to be included in the **contractor's** tendered rates for the various items of work requiring testing in accordance with the specifications

The **contractor** shall provide a fortnightly progress report covering work that is the subject of a scope of works

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**C3.9.3. Payment Certificates**

The **contractor** shall submit invoices at monthly intervals in terms of Clause 31.0 of **JBCC** Principal Building Agreement Edition 4.1 of March 2005 in respect of **works** completed during the preceding period and **materials and goods** on **site**. The work shall be measured according to the format of the **bills of quantities** and measurements should be taken together with the **employer's agent** (e.g quantity surveyor) and are subject to agreement as to the status of work completed

The **contractor** will submit his invoice, together with invoices and other supporting documentation to the **principal agent** in terms of contract

The **payment certificate** will be scrutinised by the **employer** prior to payment within the prescribed period stipulated on the contract. The **contractor** must ensure that, allowing for the time allowed for processing **payment certificates** by the **employer**, his invoice is submitted in good time to allow for the payment cycle to be met

The **contractor's** tendered rates for the relevant items in the **bills of quantities** shall include full compensation for all possible additional costs which may arise from this, and no claims for extra payment due to inconvenience as a result of the modus operandi will be considered

Each **payment certificate** must, where applicable, be accompanied by:

- a) Monthly local content report
- b) **Tax** Invoice
- c) Labour intensive report
- d) Contract participation and contract skills development goals reports
- e) Supporting documentation for **materials and goods**

**C3.9.4. Community Liaison Officer**

It is the responsibility of the **contractor** to appoint a competent Community Liaison Officer (CLO) for the duration of the contract

The primary role of the CLO will be liaison and facilitation of communication which shall include

- a) Represent the community and assist the **employer**, the **employer's agent** and the **contractor** with communication between them and the community
- b) Inform community regarding the project detail, safety precautions and programme.
- c) Be available at the **site** offices when required in terms of the contract.
- d) Assist with relocation of people, where applicable
- e) Maintain and up-to-date record of potential employees within the community and provide the **contractor** with copies of this information
- f) To identify, screen and nominate labour from the community in accordance with the **contractor's** requirements and determine, in consultation with the **contractor**, the needs of local labour for employment and relevant technical training, where applicable.
- g) Liaise between principal **contractor** and labour regarding wages and conditions of employment.

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- h) Communicate daily with the principal **contractor** on labour related issues such as numbers and skills.
- i) Identify possible labour disputes, unrest, strikes, etc., in advance and assist in their resolution.
- j) Have a good working knowledge of the contents of the contents of the contract document regarding labour and training matters.
- k) Attend all meetings at which the community and/or labour is represented or discussed.
- l) Attend contract site meetings and report on community and labour issues of these meetings.
- m) Co-ordinate and assist with the obtaining of information regarding the community's needs (questionnaires, etc.)
- n) Inform local labour of their conditions of temporary employment, to ensure their timeous availability and to inform them they will they will be relieved.
- o) Ensure that all labour involved in activities when tasks have been set, are fully informed of the principle of task based work.
- p) Attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- q) Keep a daily written record of interviews and community liaison.
- r) Arrange venues for training if required.
- s) Assist with the training and education of the community regarding the correct usage of the services, where applicable.
- t) Any other duties that may became necessary as the works progress.

The CLO shall have no authority to issue any instructions to the **contractor**. The CLO shall be neutral to all parties and endeavour to remain impartial should any conflict arise

Responsibility for identifying a pool of suitable labour shall rest with the CLO, although the **contractor** shall have the right to choose from the pool. The **contractor** (and sub-contractors) shall have the right to determine the total number of labourers required at any one time, which may vary throughout the contract

The **contractor** shall have the right to replace labour that is not performing adequately and the replacement of any labour shall be done in conjunction with the CLO

Due cognizance must be taken of the risk of the Community Liaison Officer not being a member of the targeted community, and/or the Community Liaison Officer not being recommended by the Ward Councillor(s).

**C3.10. LABOUR-INTENSIVE WORK**

Applicable: Yes  No

If yes;

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work. Provided, however, that should adequate and appropriate labour not be available within the locality, other labour may be employed to

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satisfactory proof that reasonable endeavour has been made to employ labour from the immediate locality

The **contractor** through the appointed CLO shall communicate with the local community leaders or project steering committee where applicable with purpose of negotiating with them regarding the utilization of local labour in the construction process

In this regard, the **contractor** shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The **contractor** shall in general maximize the involvement of the local community

**C3.10.1. Generic Labour-Intensive Specification**

**Contractors** are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification (Hereinafter referred to as "Guideline") applicable to the contract

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) roads
- d) sidewalks and non-motorised transport infrastructure
- e) water and sanitation

**Precedence**

Where this specification is in conflict with any other standard or specification referred to in the C3: Scope of Works to this contract, the requirements of this specification shall prevail

**Hand excavatable material**

Hand excavatable material is:

**a) granular materials:**

- i. whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- ii. where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

**b) cohesive materials:**

- i. whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or

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- ii. where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

**Note**

- i. A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm
- ii. A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used

Table 2: Consistency of materials when profiled			
GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation roduced by blow of a geological pick point.

**Trench excavation**

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All hand excavatable material in trenches having a depth of less than 1,5 metres shall be excavated by hand

**Compaction of backfilling to trenches (areas not subject to traffic)**

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

- a) to 90% Mod AASHTO;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP

**Excavation**

All excavatable material including topsoil classified as hand excavatable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand

**Clearing and grubbing**

Grass and bushes shall be cleared by hand

**Shaping**

All shaping shall be undertaken by hand

**Loading**

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible

**Haul**

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m

**Offloading**

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage

**Spreading**

All material shall be spread by hand

**Compaction**

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas

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**Grassing**

All grassing shall be undertaken by sprigging, sodding, or seeding by hand

**Stone pitching and rubble concrete masonry**

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m

Grout shall be mixed and placed by hand

**Manufactured Elements**

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

**C3.10.2. Labour-intensive competencies of supervisory and management staff**

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C of the Guideline) at NQF outlined in Table 1

**C3.11. CONTRACT PARTICIPATION GOALS AND CONTRACT SKILLS DEVELOPMENT GOALS**

The contractor shall achieve in the performance of the contract the following goals as specified below. Provision for pricing of the compliance with the achieving the goals is made in the Project Assessment Scheme section of the bills of quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regards shall be entertained:

**C3.11.1. Minimum Targeted Enterprise Development Contract Participation Goal**

The Minimum Targeted Enterprise Development CPG: Applicable  Not Applicable   
If, applicable;

The Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No.36190 of 25 February 2013 (Hereinunder referred to as "Standard") applies to this section

The lead partner or main contractor shall dedicate a minimum of 30% of the tender amount at the time of award to provide developmental support to the targeted subcontractor or joint venture partner. Preference will be given to insert type of enterprises e.g. General Building, Electrical, Mechanical, Plumbing, etc. It could be either or any combination of all enterprises

The successful contractor shall:

- a) Subcontract a minimum of 30% of the total project value to targeted enterprises;

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- b) develop the targeted enterprise/s in two development areas as specified in the Standard<sup>1</sup>, and agreed by both the main **contractor** and the targeted enterprise/s;
- c) perform needs analysis on the targeted enterprise to identify developmental goals;
- d) provide internal mentorship support to improve the targeted enterprise/s performance;
- e) develop a project-specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas;
- f) monitor and report the progress of the agreed development areas with the targeted enterprise/s; and
- g) submit a project completion report to the **employer's** representative for each targeted enterprise.

The development of the Targeted Enterprise shall be guided by the CIDB Competence Standard for Contractors Gazette No. 41237, 10 November 2017

The **contractor** shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the participation goal will result in a penalty of thirty percent (30%) of the value not achieved, excluding VAT, unless the **contractor** can prove to the **employer's** satisfaction that the non-achievement was beyond his/her control.

The main **contractor** or lead partner in a joint venture in a leader of the awarded bid must;

- a) prepare needs analysis for indirect targeting and development in at least any two developmental areas as stipulated in paragraph 3.2.1 of the Standard;
- b) appoint an enterprise development coordinator in accordance with paragraph 3.2.3 of the Standard.
- c) provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

The enterprise development coordinator shall have the following competencies:

- a) Minimum experience of 5 years in the construction industry at a Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager, or Enterprise Development Manager
- b) Minimum experience of 2 years in training and development in Building or Construction; and

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Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No.36190 of 25 February 2013

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- c) National Diploma or B Degree in the Built Environment or Business Management

**Format of communications**

The **contractor** shall submit to the **employer's** representative:

- a) Project interim reports in the specified format (ED105P) detailing the interim value of the CPG that was achieved. Such a report shall also contain a monthly progress report, compiled by the **employer's** representative and the **contractor**, detailing an assessment of the enterprise development support provided
- b) Project completion report, in the specified format (ED101P), to the **employer's** representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or the participation parameter of the joint venture entered into; and
- c) Enterprise development declaration (ED104P).

**Management Meetings:**

The **contractor** shall report to the **employer's** Representative on the implementation and progress of the targeted enterprise development and CPG

**Forms for contract administration**

The **contractor** shall submit to the **employer's** Representative the following proformas:

- a) Form ED 105P Project Interim Report
- b) Form ED 104P Enterprise Development Declaration
- c) Form ED 101P Project Completion Report

**Records:**

The **contractor** shall:

- a) keep records of the targeted enterprise development,
- b) keep records of the payments made to the targeted enterprises in relation to the CPG,
- c) ensure all the documentation required in terms of the Standard is provided in a timely manner and according to a prescribed format where applicable.

**Payment Certificates:**

The **contractor** shall:

- a) achieve the measurable CPG and provide enterprise development support to the targeted enterprise/s as per the Standard,
- b) submit payment certificates to the **employer** representative at intervals determined in the C1.2 Contract Data

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**C3.11.2. Minimum Targeted Contract Skills Development Goal**

**Minimum Targeted Contract Skills Development Goal: Applicable**  **Not Applicable**

If, applicable;

The **contractor** shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in Table 2 of the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 43495 of 3 July 2020, as amended (Hereinafter in this section referred to as "Standard") in CIDB Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract

Failing to achieve the targeted Contract Skills Development Goal will result in A) a thirty percent (30%) penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, counter-signed by the relevant individuals has been submitted, unless the **contractor** can prove to the **employer's** satisfaction that the non-achievement was beyond his/her control

The **contractor** shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminaries section in the Bill of Quantities

The **contractor** may only place 33% of employees employed by him or that of his subcontractors contributing to the CSDG

The **contractor** shall employ at least 60% of the learners from a Public FET / TVET college should the **contractor** select to have trade qualification learners (Method 2) contributing to the CSDG

The successful **contractor** may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).

The successful **contractor** shall employ at least zero percent (0%) from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the **employer**.

The successful **contractor** shall ensure that no single method shall contribute more than seventy-five percent (75%) of the CSDG for the contract

**Training requirements**

The **contractor** shall achieve the measurable CSDG by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as agreed:

- a) Part/Full Occupational Qualification Learners (**Method 1**)
- b) and/or Trade Qualification Learners (**Method 2**)
- c) and/or Work Integrated Learners (**Method 3**)
- d) and/or Candidates (**Method 4**) as per the Standard in relation to work directly related to the contract or order as indicated under clauses 4.2 and 4.3 in the Standard.



The **contractor** must ensure all beneficiaries of the Standard are registered with the CIDB Skills Development Agency (SDA)

**The Format of Communications:**

The **contractor** shall, within 30 days of the award of the contract and in the specific format (Form A2 Baseline Training Plan), submit to the **employer's** representative a baseline training plan

The **contractor** shall submit to the **employers** representative:

- a) an interim contract compliance training report in the specific format (Form A3 Project Interim Report) at intervals that do not exceed 3 months; and
- b) a final contract compliance training report, in the specific format (Form A5 Project Completion Report). This report shall, respectively, be submitted within 15 days of, reaching completion, end of the service, the delivery date for all work required or practical completion (in the case of professional service), service, design, and construct contracts, and engineering and construction works contracts,

**The Key Personal:**

For Structured Workplace Learning Opportunities for Learners (Method 1 and Method 2)

The **contractor** shall:

- a) appoint a responsible supervisor to allocate learning tasks, to learners in line with their training plans.
- b) appoint an artisan in the applicable trade with a minimum of 3 years to mentor learners associated with structured workplace learning.

For Structured Workplace Learning for Candidates (Method 3 and Method 4)

The **contractor** shall:

- a) appoint a supervisor who is actively engaged in work directly associated with the contract to issue tasks,
- b) appoint a suitable mentor as required by the professional body or statutory council.

**Management Meetings:**

The **contractor** shall report to the **employer's** representative on the implementation and progress of the CSDG

The Forms for Contract Administration:

The **contractor** shall submit to the **employer's** representative the following proformas:

- a) Form A2 Baseline Training Plan
- b) Form A3 Project Interim Report
- c) Form A5 Project Completion Report

**Records:**

The **contractor** shall:



- a) keep records for learners and candidates of the hours worked and registration with the CIDB SDA, Sector Education Training Authorities SETA's (where required), and professional statutory councils (where required) particulars towards compliance with this Standard
- b) ensure all the documentation required in terms of clause 4 in the Standard is provided in a timely manner and according to a prescribed format where applicable
- c) upon termination of the opportunities provided to satisfy the CSDG, certify the quantum and nature of the opportunity and submit the certificate and counter-certified by the relevant individual, to the **employer's** representative for record-keeping purposes

**Payment Certificates:**

The contractor shall:

- a) achieve the measurable CSDG as agreed by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as per the Standard in relation to work directly related to the contract or order as indicated under clause 4.2 and 4.3 in the Standard
- b) submit payment certificates to the **employer's** representative at intervals determined in the contract

**C3.12. ANNEXURES**

**Annexure A:** Tender Drawings as listed in Paragraph C3.3.1 **Refer to e-tender portal**

**Annexure B:** Geotechnical investigation report

**Annexure C:** Occupational Health & Safety Specification

**Annexure D:** Baseline risk assessment

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**CONSTRUCTION OF MARITE NEW POLICE STATION: MPUMALANGA  
PROVINCE**

**BID: 19/1/9/1/01TB (26)**

**PART C:**

**CONTRACT**

**Part C4**

**Site information:**

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## C4: SITE INFORMATION

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### C4: SITE INFORMATION

**Project** : Construction of New Marite Police Station: Mpumalanga Province

**Employer** : South African Police Service

**Reference** :

#### C4.1 SITE LOCALITY

Erf/stand number	RE PT OF PT1 PF THE FARM WATERVAL 273 KU
Site address	RE PT OF PT1 PF THE FARM WATERVAL 273 KU
Township / Suburb	Bushbuckridge Local Municipality
City / Town	Bushbuckridge
Province	Mpumalanga Province
Local authority	Bushbuckridge Local Municipality
GPS Coordinates	24°55' 56" S 31°07' 28"E

Google Earth picture for site locality below:





**C4.2 GEOTECHNICAL INFORMATION**

**C4.2.1 Nature of Ground**

The Geotechnical Investigation report is attached herein for detailed description of the nature of the ground.

Whilst the information provided above is given in good faith, the Engineer and Employer accept no responsibility for the accuracy thereof. It remains the responsibility of the Contractor to verify the actual ground conditions during construction and to take appropriate measures to ensure the safety of persons and the Works at all times.

**C4.3 EXISTING BUILDINGS**

The are no existing buildings on site.

**C4.4 EXISTING SERVICES, SERVITUDES AND WAYLEAVES**

The known existing services are shown on the drawings. The positions of the services cannot be guaranteed. On establishing on site, the contractor must determine the positions of all pipelines and cable routes with the assistance of the engineer and the employer's staff on Site. The contractor must take precautions to prevent any damage to existing services. Damages that might occur will be repaired at the cost of the contractor.

The contractor must also excavate to determine the position where the installed outfall starts and determine the invert level of the first manhole.

Wayleaves will be required.

**C4.5 ACCESS TO SITE**

Access is taken off Big Street as far as possible from the bend in the gravel road serving the site.

**C4.6 ADDITIONAL SITE INFORMATION**

**C4.6.1 Water Supply**

Water is not available for construction purposes and the Contractor must make his/her own arrangement for water supply to the site. The contractor will be responsible at his or her own cost for the supply and distribution of water for construction use.

**C4.6.2 Electricity Supply**

Electrical power is not available for construction purposes and the Contractor must make his/her own arrangement for electrical power supply to the site. The contractor will be responsible at his or her own cost for the supply and distribution of electricity for construction use.

**C4.6.3 Environmental Issues**

The site is not particularly sensitive from environmental perspective..

The police station construction does not trigger any listed activities in terms of the 2014 EIA Regulations and can therefore proceed without an application for environmental authorization in terms of the National Environmental Management Act, Act 107 of 1998, as amended

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**C4.6.4 Traffic assessment**

There is no need for traffic impact assessment since the site is anticipated increase in vehicular trips, associated with the proposed upgrade will not exceed the threshold which requires a traffic impact study.