

**SPECIFICATION FOR ALTERNATIVE BUILDING METHOD
(PRE-MANUFACTURED PANELS ASSEMBLED ON SITE)
DATE: 17-10-2019 REV: 00**

SPEC 32242/19

NR	REQUIREMENT	PARTICULARS OF BID	
STATE UNDER PARTICULARS OF BID AGAINST EACH REQUIREMENT WHETHER THE BIDDER COMPLY OR DO NOT COMPLY WITH THE REQUIREMENT OF THE SPECIFICATION		COMPLY	DO NOT COMPLY
26.6.3	DB-EPS will include the following equipment: 63 A two-pole main isolator; 1 x 10 A lighting circuit breaker		
26.7	<u>Mechanical</u>		
26.7.1	<u>Heat pump</u> A provision of 3, 5 Kw energy efficient heat pump with a 150litre storage vessel should be made. The heat pump should be enclosed in 3mm lockable cabinet. It should be equipped with microcomputer controller with timer function, can automatically start-up and stop according to water temperatures and other running conditions.		
27.	<u>Married Quarters unit (Fig 12)</u>		
27.1	Each unit must have its own shower, toilet and hand wash basin as per layout, Fig 12. Shower heads will be of water saving type.		
27.2	Toilet facility: One (1) WC suite, one (1) basin and one (1) shower.		
27.3	One (1) x toilet paper holder		
27.4	Shower units to be fitted and properly sealed. Shower heads will be of water saving type.		
	State: type of unit		

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27.5	<p><u>Stove</u></p> <p>There should be a provision for a 68L electric stove with 4 vitro ceramic plates, with the following dimension; (HXWXD)=(1190X595X630). The stove should have an oven as well. It should be supplied and installed with an isolator</p>		
27.6	<u>Electrical</u>		
27.6.1	Distribution boards will be recessed.		
27.6.2	Each married quarter will be provided with a Normal Power DB (DB-NPS) and will include the following equipment: 63 A two-pole main isolator; 63 A earth leakage protection; 2 x 20 A switched socket outlets circuit breakers; 30 A stove circuit breaker; 1 x 10 A lighting circuit breaker; 1 x 20 A heat pump unit circuit breaker.		
27.6.3	Each married quarter will be provided with an externally, surface mounted, SS304 stainless steel, lockable, weather resistant cabinet, next to the main entrance at a height of 1 500 mm above apron surface.		
27.6.4	Cabinet to be equal to or better than WACO CRX Range stainless steel enclosures with cabinet size 300 mm (h) x 250 mm (w) x 150 mm (d).		
27.6.5	Cabinet to be supplied with and installed with OEM wall mount brackets and internal DIN rail suitable for the installation of a rail mount moulded case electricity consumption meter.		
27.6.6	The electricity consumption meter to be equal or better than the CBI EC320CM.		

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27.6.7	Electrical warning signage to be provided on each cabinet door.		
27.6.8	A SINGLE cabinet key to be provided per SAPS facility where a married quarter's unit is constructed.		
27.7	<u>Mechanical</u>		
2.7.1	<u>Heat pump</u> A provision of 3, 5 Kw energy efficient heat pump with a 150litre storage vessel should be made. The heat pump should be enclosed in 3mm lockable cabinet. It should be equipped with microcomputer controller with timer function, can automatically start-up and stop according to water temperatures and other running conditions.		
27.7.2	Each bedroom and open plan living space to be fitted with a 1 200 mm diameter four blade ceiling fan, centrally mounted in the room and living space. The fan and lighting will be powered from a single wall switch and have on board pull switches for light on/off and fan speed controls. The ceiling fan will have a central light with opaque diffuser with a 10 Watt cool white ES27 type light fitting.		
28.	<u>PLACING OF UNITS</u>		
28.1	The unit when assembled must be totally functional when connected to all services. The bidder must provide all services to the unit from the nearest source/connection provided that the source/connection can service the unit without negatively affecting the existing facilities. A unit cost/m must be provided to include all material, excavations and labour. (See Annexure L) Pricing for each unit must be provided separately.		

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28.2	The bidder will be responsible to level and compact the area where a unit is placed and provide a concrete apron of 1m wide x100 mm thick around the unit. (Ramps and landings must also be provided with an apron where applicable)		
28.3	Accessibility for the disabled to all units must be provided via a ramp of a gradient not steeper than 1:10 if the rise is less than 400 mm and 1:12 for a rise exceeding 400 mm. A landing with a minimum size of 1200 mm x 1500 mm must be provided. (Where applicable)		
28.4	The ramp may be constructed in concrete with wood float finish or in steel of chequered plate supported by a framework of adequate strength. All steel to be hot dip galvanized.		
29.	<u>DETAIL WITH BID</u>		
29.1	All deviations must be listed in sequence and alternatives be explained.		
29.2	Layout drawings of units must be provided with bid document which includes the foundation drawings, if not, the bid will not be considered.		
30.	<u>EVALUATION</u>		
30.1	The bidder <u>must</u> provide <u>all</u> relevant information e.g. drawings, layouts, dimensions etc. to enable proper evaluation of bid.		

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30.2	The factory/workshop will be visited as part of the evaluation where similar units will be viewed as examples or sites visited where previous projects has been completed. State: address of factory/workshop / sites		
31.	<u>INSPECTION AND ACCEPTANCE</u>		
31.1	The first of each unit will be a prototype.		
31.2	After inspection and acceptance, production of the rest can commence.		
32.	<u>HANDING OVER OF DOCUMENTATION</u>		
32.1	Three sets of documentation listed below, must be provided per site:		
32.2	Certificates of Compliance (COC's) per individual electrical distribution board and per individual electrical distribution kiosk on site.		
32.3	As built drawings of each unit on the site.		
32.4	Operating and maintenance manuals of all equipment supplied. (Hydro boil units, air conditioning units, heat pump units, hot water storage vessels, etc.)		
32.5	Brochures/catalogues for equipment supplied.		
32.6	Test and commissioning certificates for equipment supplied.		
32.7	Glazing certification.		
32.8	Fire rating certification.		

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32.9	SABS certification.		
32.10	COC from Civil and Structural Engineer for all structural systems.		
33.	<u>OCCUPATIONAL HEALTH AND SAFETY</u>		
33.1	The Contractor shall comply with the requirements of the Occupational Health & Safety Act and applicable regulations. The contractor shall refer to the site information, and the specifications describing the scope of the Engineering Works, for information about the type of environment in which the work is to be executed. Notwithstanding anything stated in this document the contractor shall be responsible for determining the safety requirements of the site. (as specified in this document)		

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SCHEDULE OF RATES				
1.	Description of Units:	Unit measurement	R / unit	Total
1.1		ea		
1.1.1	Victim Friendly Facility unit (Fig 1)	ea		
1.1.2	Office Block – 4 offices unit (Fig 2)	ea		
1.1.3	Double Wide Office Block – Open Plan with 2 offices unit (Fig 3)	ea		
1.1.4	Double Wide Office Block – Open Plan with 1 office unit (Fig 4)	ea		
1.1.5	Ablution Block unit (Fig 5)	ea		
1.1.6	Single Quarters Unit (Fig 6)	ea		
1.1.7	CSC Block Unit (Fig 7)	ea		
1.1.8	Open Plan Office Block – with 2 offices and Walk-In Safe unit (Fig 8)	ea		
1.1.9	Male and Female Temporary Holding Cells Unit (Fig 9)	ea		
1.1.10	Guard Kiosk (Fig 10)	ea		
1.1.11	Showers unit (Fig 11)	ea		
1.1.12	Married Quarters unit (Fig 12)	ea		

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2.	<u>CONSTRUCTION</u>			
2.2	EXTERNAL WALLS:			
2.2.1	External wall type 1: Wall consisting of 0.5mm Chromadek sheeting with bullet proof properties to withstand up to AK-47 calibre with CR value of 100 at 2700mm high	/m		
2.2.2	External wall type 2: Wall consisting of 0.5mm Chromadek sheeting with of 100 at 2700mm high	/m		
2.3	<u>INTERNAL WALLS:</u>			
2.3.1	Minimum 50mm thick internal wall consisting of 0.5mm Chromadek sheeting	/m		
3.	<u>ROOF:</u>			
3.1	Roof consisting of 0.5mm Chromadek sheeting at minimum 10 degree angle with minimum 600mm overhang to comply with minimum insulation for applicable climatic zone as per SANS 10400 Part XA	/m ²		
3.2	0.5mm ceiling or 12mm Thick gypsum ceiling board with paint finish as selected in specification document	/m ²		
3.	<u>DOORS:</u>			
3.1	Single door with appropriate ironmongery as per specification	/ea		
3.2	Double door with appropriate ironmongery as per specification	/ea		
4.	<u>WINDOWS:</u>			
4.1	Window Type 1: Natural anodized windows with 6mm thick safety glass, burglar proofing as per specification (bathroom windows to be frosted or obscure glass panels) and vertical blinds with tracks.	/m ²		

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4.2	Window Type 2: Natural anodized window with ballistic properties to withstand 9mm to AK-47 caliber (Level 3 ballistic glass). Burglar proofing to be installed on openable sections.	/m ²	
5.	<u>BOUNDARY WALL & FENCE:</u>		
5.1	Boundary fence & wall type 1 - Street boundary and CSC entrance: Minimum 3000mm high wall with 620mm high wall, 2 layers of 1800mm high fencing panel, 600mm high flat wrap razor wire, fence posts as per Annexure "A" and reinforced concrete strip foundation.	/m	
5.2	Boundary fence/ wall Type 2 - Around street boundaries (Not facing CSC entrance): Minimum 3000mm high wall with 620mm high wall, single layer of 1800mm high fencing panel, 600mm high flat wrap razor wire, fence posts as per Annexure "A" and reinforced concrete strip foundation.	/m	
5.3	Boundary fence/ wall Type 3 - Boundaries to adjacent sites and holding facilities: 2465mm High brick wall with 600mm high flat wrap razor wire to be minimum 3000mm high in total with reinforced concrete strip foundation.	/m	
5.4	Boundary fence/ wall Type 3 - Boundary signage wall at pedestrian entrance: 2465mm High brick wall with 600mm high flat wrap razor wire to be minimum 3000mm high in total with reinforced concrete strip foundation.	/m	
5.5	Boundary fence/ wall Type 3 - Signage as per Annexure "D"	/ea	
6.	<u>GATES:</u>		
6.1	Pedestrian Gate: 1200mm wide x 2400mm high with 600mm high flat wrap wire to match boundary fence with all ironmongery as per Annexure "A"	ea	
6.2	Vehicle Access Gate: Minimum 5000mm wide gate, 2400mm high with 600mm high flat wrap wire with all ironmongery as per Annexure "A"	/m	
6.3	Industrial type sliding gate wheels minimum 50mmø steel wheels	ea	
6.4	Sliding gate track: 100mm x 100mm Mild steel square tubing cast in concrete with minimum 20mmø mild steel round bar welded to square tubing	/m	
7.	<u>INTERCOM SYSTEM:</u>		

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7.1	Industrial type intercom system as per Annexure "A", supplier to include price for all cabling, conduit etc. to install the intercom system controlled from the Community Service Centre (CSC).	ea	
8.	<u>BURGLAR PROOFING (WINDOWS & DOORS):</u>		
8.1	Window burglar proofing: Burglar proofing in accordance with Annexure "B" to be custom made as per window size	/m ²	
8.2	Door burglar proofing: Burglar proofing in accordance with Annexure "B" to be custom made as per door size with appropriate 3 level lock mechanism and barrel bolt hinges	/m ²	
9.	<u>GRENADE SCREENS:</u>		
9.1	Grenade screens over windows as per Annexure "C" to be custom made as per window size	/m ²	
10.	<u>FLAG POLES:</u>		
10.1	Flag poles as per Annexure "E" installed at pedestrian entrance	ea	
11.	<u>INTERNAL ROADS AND WALKWAYS:</u>		
11.1	Paving: as per Annexure "F" with appropriate layer and compaction confirmed by civil and structural engineer included in price	/m ²	
11.2	Kerbing: All areas around paved areas requiring kerbing as per Annexure "F" appropriate layer and compaction confirmed by civil and structural engineer included in price	/m	
12.	<u>CARPETS:</u>		
12.1	Standard Carpet: Supplier to provide price for a single 2500mm x 5000mm parking bay carpet as per specification and material provided	ea	
12.2	Paraplegic Carpet: Supplier to provide price for a single 3000mm x 5000mm parking bay carpet as per specification and material provided	ea	

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13.	<u>ELECTRICAL RETICULATION</u>			
13.1	Single sided distribution kiosk (inclusive of mounting rails, faceplate, blank inserts, legend holder, screws, rawl bolts, washers, lock, keys, key ring, key tag, and Certificate of Compliance)	ea		
13.2	Double sided distribution kiosk (inclusive of mounting rails, faceplates, faceplate blank inserts, legend holders, screws, rawl bolts, washers, locks, keys, key rings, key tags and Certificates of Compliance)	ea		
13.3	50 mm diameter Nextube sleeve	/ m		
13.4	110 mm diameter Nextube sleeve	/ m		
13.5	Trenching and backfilling, 300 mm (w) x 600 mm (d) (Inclusive of electrical warning tape)	/ m		
13.6	Reinstate concrete and / or paving, upon completion of trenching (inclusive of compaction)	/ m ²		
13.7	1.5 mm ² 3 Core PVC Insulated (inclusive of all glands, terminals, ferrules)	/ m		
13.8	2.5 mm ² 3 Core PVC Insulated (inclusive of all glands, terminals, ferrules)	/ m		
13.9	4 mm ² 3 Core PVC Insulated (inclusive of all glands, terminals, ferrules)	/ m		
13.10	6 mm ² 3 Core PVC Insulated (inclusive of all glands, terminals, ferrules)	/ m		
13.11	10 mm ² 3 Core PVC Insulated (inclusive of all glands, terminals, ferrules)	/ m		

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13.12	10 mm ² 3 Core PVC/SWA/PVC (inclusive of all glands, terminals, ferrules)	/ m		
13.13	4 mm ² 4 Core PVC/SWA/PVC + 4 mm ² BCEW (inclusive of all glands, terminals, ferrules)	/ m		
13.14	6 mm ² 4 Core PVC/SWA/PVC + 4 mm ² BCEW (inclusive of all glands, terminals, ferrules)	/ m		
13.15	10 mm ² 4 Core PVC/SWA/PVC + 6 mm ² BCEW (inclusive of all glands, terminals, ferrules)	/ m		
13.16	16 mm ² 4 Core PVC/SWA/PVC + 10 mm ² BCEW (inclusive of all glands, terminals, ferrules)	/ m		
13.17	10 A single pole 6 kA circuit breaker (QF-1(13))	ea		
13.18	20 A single pole 6 kA circuit breaker (QF-1(13))	ea		
13.19	20 A single pole 6 kA circuit breaker (QF-1(26))	ea		
13.20	30 A single pole 6 kA circuit breaker (QF-1(26))	ea		
13.21	40 A single pole 6 kA circuit breaker (QF-1(26))	ea		
13.22	50 A single pole 6 kA circuit breaker (QF-1(26))	ea		
13.23	100 A single pole 6 kA circuit breaker (QF-1(26) – High Rating)	ea		
13.24	30 A three pole 6 kA circuit breaker (QF-3(26))	ea		

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13.25	40 A three pole 6 kA circuit breaker (QF-3(26))	ea		
13.26	50 A three pole 6 kA circuit breaker (QF-3(26))	ea		
13.27	63 A three pole 6 kA circuit breaker (QF-3(26))	ea		
13.28	70 A three pole 6 kA circuit breaker (QF-3(26))	ea		
14.	<u>GENERATORS</u>			
14.1	Decommissioning of existing generator: Up to 20 kVA generator	ea		
14.2	Decommissioning of existing generator: 20 - 39 kVA generator	ea		
14.3	Decommissioning of existing generator: 40 - 59 kVA generator	ea		
14.4	Decommissioning of existing generator: 60 - 79 kVA generator	ea		
14.5	Decommissioning of existing generator: 80 - 100 kVA generator	ea		
14.6	Generator yard fence and gate for 20 – 22 kVA standby generator, constructed as per fence specification and detailed drawings	ea		
14.7	Generator yard fence and gate for 40 kVA standby generator, constructed as per fence specification and detailed drawings	ea		
14.8	Generator yard fence and gate for 60 kVA standby generator, constructed as per fence specification and detailed drawings	ea		

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14.9	Generator yard fence and gate for 80 kVA standby generator, constructed as per fence specification and detailed drawings	ea		
14.10	Generator yard fence and gate for 100 kVA standby generator, constructed as per fence specification and detailed drawings	ea		
14.11	Generator Plinth for 20 – 22 kVA standby generator, inclusive of apron	ea		
14.12	Generator Plinth for 40 kVA standby generator, inclusive of apron	ea		
14.13	Generator Plinth for 60 kVA standby generator, inclusive of apron	ea		
14.14	Generator Plinth for 80 kVA standby generator, inclusive of apron	ea		
14.15	Generator Plinth for 100 kVA standby generator, inclusive of apron	ea		
14.16	Manhole with internal dimensions 900 mm x 900 mm x 900 mm inclusive of lockable lids, corrosion resistant locks, key rings and key tags	ea		
14.17	20 - 22 kVA Single-Phase standby generator inclusive of automatic change over panel	ea		
14.18	40 kVA Three-Phase standby generator inclusive of automatic change over panel	ea		
14.19	60 kVA Three-Phase standby generator inclusive of automatic change over panel	ea		
14.20	80 kVA Three-Phase standby generator inclusive of automatic change over panel	ea		
14.21	100 kVA Three-Phase standby generator inclusive of automatic change over panel	ea		

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14.22	Six-monthly service (following on the 2 year warranty period for the remainder of the term contract period): 20 - 22 kVA Single-Phase standby generator	ea		
14.23	Six-monthly service (following on the 2 year warranty period for the remainder of the term contract period): 40 kVA Three-Phase standby generator	ea		
14.24	Six-monthly service (following on the 2 year warranty period for the remainder of the term contract period): 60 kVA Three-Phase standby generator	ea		
14.25	Six-monthly service (following on the 2 year warranty period for the remainder of the term contract period): 80 kVA Three-Phase standby generator	ea		
14.26	Six-monthly service (following on the 2 year warranty period for the remainder of the term contract period): 100 kVA Three-Phase standby generator	ea		
14.27	Truck with on-board crane, suitable for delivery and placement of generator to site and inclusive of accompanying labour for placement and installation	/ km		
14.28	Light Delivery Vehicle (LDV) defined in terms of the SANRAL Vehicle Classifications and Definitions, suitable for general servicing and repair of generators and inclusive of accompanying labour for servicing and repair	/ km		
14.29	Supply 50 PPM diesel fuel: Replenishment during servicing and inspections	/ Litre		
15.	<u>LIGHTING</u> (Perimeter; Carport; Generator & Water Storage Yard)			
15.1	25 mm Diameter PVC conduit (inclusive of elbows, straight connectors, male adapters, raised saddles, T-junctions, PVC welding and draw wire	/ m		

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15.2	50 mm x 100 mm PVC draw box	ea		
15.3	315 mm (w) x 185 mm (h) x 120 mm (d) Synthetic weather resistant slide lid junction box (inclusive of screws, lugs and washers)	ea		
15.4	3 100 mm Birch grey glass fiber reinforced polyester (GRP) pole manufactured with subterranean cable entries as per detailed drawings	ea		
15.5	400 mm x 400 mm x 850 mm (h) concrete plinth for lighting post top	ea		
15.6	Galvanized wall mount pedestal for signage wall luminaries	ea		
15.7	National NS116 photocell (inclusive of bulkhead casing, screws, lugs and washers - installed as per lighting specification and detailed drawings)	ea		
15.8	10 A Weatherproof (IP66) rotary type light switch with maximum frontal dimensions 75 mm x 75 mm (WACO ERA L1944)	ea		
15.9	BEKA Rough Guard 19 Watt cool white LED vandal proof luminaire with marine grade aluminum die-cast body, powder coated grey and with high impact clear polycarbonate diffuser, MANUFACTURED WITHOUT SIDE ENTRIES (or equal or better approved)	ea		
15.10	BEKA Series-21 20 Watt cool white LED vandal resistant luminaire with aluminum die-cast body, powder coated black and with high impact acrylic diffuser (or equal or better approved)	ea		
15.11	BEKA Zela 19 Watt cool white LED with aluminum die-cast body, powder coated grey and with high impact SAPS blue acrylic diffuser and a symmetrical lighting distribution (or equal or better approved)	ea		

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15.12	BEKA Zela 37 Watt cool white LED with aluminum die-cast body, powder coated grey and with high impact acrylic diffuser and a-symmetrical lighting distribution (or equal or better approved)	ea		
15.13	BEKA Zela 37 Watt cool white LED with aluminum die-cast body, powder coated grey and with high impact acrylic diffuser and symmetrical lighting distribution (or equal or better approved)	ea		
16.	<u>WATER</u>			
16.1	Installation and connection of 20 mm galvanised supply pipe plus fittings and supports / including labour and material:		R	/m
16.2	Installation and connection of 20 mm class 6 HDPE supply pipe plus fittings and supports / including labour and material:		R	/m
17.	<u>Booster Pump</u>			
17.1	This shall include for all technical data and details of equipment and materials. Specialised and Qualified contractor shall carry out the works and installations with all the required tools, equipment and qualified skilled labour force. All the materials, equipment and installations shall comply with ISO and relevant SANS Standards and to be warranted for twelve (12) months defects liability period counted from the date of certified taking over certificate issued by Engineer in charge. All mechanical installations should include for all required fittings, and prior to materials ordering the contractor must submit complete shop drawings with detailed equipment technical data and specification for Engineer's Approvals. All works should be finally tested and commissioned by specialised team to verify all mechanical and electrical installations.		Sum	

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17.2	<p>A 4 bar pressure pump at a flow rate of 34 litres per minute should be supplied and which comes standard automatic switch to start the pump when the pressure decreases, then switches off when there is no flow. The pump should be have a brass impeller and a stainless steel shaft.</p> <p>The following attributes or features should be incorporated</p> <ul style="list-style-type: none"> · Dry running Protection · Overcurrent Protection · Prewired · Motor power of 0,37 kW – 0,4 Kw 		Sum
18.	<u>Water Exploration and Borehole</u>		
18.1	Where applicable and necessary water exploration in the form of a drilled borehole would be undertaken. The said borehole should be fully functional.		
18.2	Drilling of a Borehole		Unit: /m
19.	<u>Borehole Casing</u>		Unit: /m
19.1	Steel Casing		Unit: /m
19.2	Casing Shoe		Unit: item

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**SPECIFICATION FOR ALTERNATIVE BUILDING CONSTRUCTION METHOD
(PRE-MANUFACTURED PANELS ASSEMBLED ON SITE)
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19.3	uPVC Casing		Unit: /m
19.4	Perforated Casing		Unit: /m
19.5	Recovery Steel Casing		Unit: /m
20.	<u>Appointment of Hydrogeological Consultant</u>		
20.1	(a) Appointment of Hydrogeological Consultant (Contractor Responsibility)		Unit: PC Sum
20.2	(b) Charge required by Contractor on sub item (a) above		Unit %
21.	<u>Integrated Water System and Storage</u>		
21.1	Water storage tanks and a fully functional integrated water system should be completed and connected with all the associated fittings, pipes and accessories which are necessary for a fully functional installation. These would also include a concrete plinth (base), Galvanised fence and an IBR rooftop.		
21.2	5000 litres tank equivalent to a JoJo Tank. The needs for tank(s) would be incremental based on the site(s) water storage needs.	R	/m
21.3	Pipes, accessories and isolating valve(s) for maintainability		Sum

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**SPECIFICATION FOR ALTERNATIVE BUILDING CONSTRUCTION METHOD
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21.4	Transport costs to respective sites		R	/km
21.5	Construction of appropriate concrete plinth with an apron right around for the tanks which should match the site(s) needs in as far as the number of the 5000 litres tanks incremental.		Sum	
21.6	Installation of the galvanised Palisade fence around the plinth as per the point above including labour costs		Sum	
21.7	Construction of the IBR rooftop around the concrete plinth as per the point above		Sum	
22.	<u>STOVE/MARRIED QUARTERS)</u>			
22.1	There should be a provision for a 68L electric stove with 4 vitro ceramic plates, with the following dimension; (HXW XD)=(1190X595X630). The stove should have an oven as well. It should be supplied and installed with an isolator. The quantities would be determined and confirmed		R	/item
23.	<u>FIRE FIGHTING</u>			
23.1	4.5 kg dry powder fire extinguisher with wall mounted bracket and correct signage fixed to the walls.	ea		
24.	<u>SEWERAGE</u>			

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24.1

	Installation and connection of 110 mm PVC drain piping and fittings / including labour and material:		R	/m
24.2	Provision must be made for a septic tank and French drain to cater for the new units where applicable:		R	
25.	<u>EXCAVATION</u>			
25.1	Excavation and back fill of trenches for water and sewerage including equipment, labour and material:		R	/m ³
26.	<u>CASTING OF CONCRETE, PAVING, FOUNDATION AND RETAINING WALLS</u>			
26.1	Casting of aprons, paving, foundations and retaining walls must include labour and material:		R	/m ³
26.2	Provision must be made to provide concrete block paving for walkways where needed:		R	/m ²
26.3	Where retaining walls are needed, provision must be made for "Terrace Blocks" or similar type:		R	/m
27.	<u>TREES AND STRUCTURES</u>			
27.1	Provision must be made to trim trees where necessary and to remove the trimmed material:		R	/tree
27.2	Provision must be made to cut down trees and remove stumps:		R	/tree

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27.3	Provision must be made to remove any temporary structure where needed, e.g. "Wendy houses":		R
28	<u>TRANSPORT</u>		
28.1	Tariff for transport for connection of services:		
28.2	Tariff for transport of units:		R /km
29	<u>COUNCIL SUBMISSION</u>		
29.1	Submission of building plans submitted to Local City Council for approval to commence building works. Submission to be done by supplier. The supplier to price per/m ² rate of floor area for construction works.		R /m ²
30	<u>CONSULTANTS</u>		
30.1	The supplier will be responsible to appoint any required Professional Registered consultant the design and approval of the construction works to comply with SANS 10400 and NBR. The supplier will be required to supply a fixed percentage rate calculated on the total construction cost of the project. Each consultant will require his/ her own liability insurance for each project.		
30.2	The supplier will be responsible to supply the client with a full set of construction drawings for approval by the client (SAPS) prior to submission to the local city council.		
30.3	The consultant will not be applicable on all projects, the pricing will only be for if and when the consultants will be required. The supplier to notify the client of the required consultant on each project prior to appointment by the supplier.		
30.4	Architect (Professional Registered)		%
30.5	Civil Engineer (Professional Registered)		%
30.6	Structural Engineer (Professional Registered)		%

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30.7	Quantity Surveyor (Professional Registered)			%
30.8	Electrical Engineer (Professional Registered)			%
30.9	Mechanical Engineer (Professional Registered)			%
30.10	Landscape Architect (Professional Registered)			%
30.11	Fire Consultant (Professional Registered)			%

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**APPOINTMENT OF A CONTRACTOR FOR THE SUPPLY, DELIVERY,
INSTALLATION AND COMMISSIONING OF PRE-MANUFACTURED
COLLAPSABLE UNITS FOR THE PERIOD OF FIVE (05) YEARS TO THE
SOUTH AFRICAN POLICE SERVICE: NATIONALLY**

BID: 19/1/9/1/121TB(22)

PART C

CONTRACT

PART C.2.1

SCOPE OF WORK AND PRICING DATA

5 YEAR TERM CONTRACT FOR THE SUPPLY AND INSTALLATION OF PRE-MANUFACTURED UNITS ASSEMBLED ON SITE: SCOPE OF THE WORKS

DESCRIPTION OF THE WORKS

The contract shall be for a term of 5 years to supply and install various Pre-manufactured units assembled on-site for the South African Police Service (SAPS). Refer to the specification document 32242/19 for detailed information on the construction and requirements of the units. The installation shall include all services and structures required.

LOCATION OF THE SITE

Each project will be site-specific. The contractor shall do a site assessment of each project individually.

DRAWINGS AND ATTACHMENTS

The contractor shall use the attached drawings and attachments as a basis for a design that is required from the client SAPS. The construction method will differ from manufacturer to manufacturer of the units.

The drawings and specifications attached are as follows:

Layout Drawings

- Figure 1 - Omitted
- Figure 2 to 12 – Plug layout/ Unit Layout
- Figure 2 to 12 – Lighting Layout/ Unit Layout
- Figure 2 to 12 – Foundation and Roof Plan

Standard Details

- Annexure 1 – Flagpoles 1/2
- Annexure 2 – Flagpoles 2/2
- Annexure 3 – Sliding Gate Elevation
- Annexure 4 – Pedestrian and Sliding Gate Plan
- Annexure 5 – Double Mesh Perimeter Fence
- Annexure 6 – Single Mesh Perimeter Fence
- Annexure 7 – Perimeter Wall Detail
- Annexure 8 – Grenade and Burglar Proofing Detail

- Annexure 9 - Signage Wall Detail
- Annexure 10 – Perimeter Lighting Detail
- Annexure 11 – Perimeter Lighting Detail 2
- Annexure 12 – Perimeter Lighting Detail 3
- Annexure 13 – Generator/ Water Tank Yard Plan
- Annexure 14 – Generator/ Water Tank Yard Section

Specifications and documents:

- Annexure A – Perimeter Barrier and Access Specification
- Annexure B – Burglar Proofing Specification
- Annexure C – Grenade Screen Specification
- Annexure D – External Wall Signage Specification
- Annexure E – Flag Poles Specification
- Annexure F – Paving and Kerb Specification
- Annexure G – Integrated Water System and Storage Specification
- Annexure H – Borehole Pump Specification
- Annexure I – Perimeter Lighting Specification
- Annexure J – Generator Specification
- Annexure K – Schedule of Rates
- Annexure L - Top 10 Park home priorities for 2023 - 2026 financial years
- Specification document – 32242/19
- Unpriced bill of Quantities

DRAWINGS BY CONTRACTOR

The contractor shall submit a full set of working drawings with the bid documentation with complete specifications, construction methods, finishing schedules, ironmongery, services, etc. intended to be used to construct the Units based on the manufacturer's construction method in line with the specification document.

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CONSTRUCTION

APPLICABLE STANDARDISED SPECIFICATIONS

Although not bound in nor issued with this document, the latest issue of all relevant SABS and SANS 10400 specifications as well as the Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall form part of the contract Document.

SITE FACILITIES AVAILABLE

WATER SUPPLY

Each site will be assessed individually per project to determine the availability of existing water infrastructure. In cases where water is not available, the contractor shall be responsible to provide water during construction at his or her own cost.

ELECTRICAL SUPPLY

Each site will be assessed individually per project to determine the availability of existing electrical infrastructure. In cases where electrical power is not available for construction purposes, the contractor must make his/her own arrangement for an 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.

CONSTRUCTION PROGRAMME

The successful bidder shall submit a program, within FOURTEEN days after the appointment of a project, to construct mobile units, to the client SAPS, showing a detailed order of procedure and methodology in which he/she proposes to carry out the Works. The program shall reflect the completion times as reflected on the form and the program shall include a bar chart to show the proposed scheduling and methods of execution of the works and the resources to be allocated to each item or phase of the work.

SUPERVISION

Work shall at all times be subject to full-time supervision by a competent supervisor who must be authorized to receive instructions and take decisions on behalf of the Contractor.

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PRICED BILLS OF QUANTITIES

Bills of Quantities complete with all bid rates, extensions, summaries, etc. must accompany the Bid documents. Failure to comply will lead to disqualification.

PAYMENTS

All claims for interim payments must be approved and certified by the SAPS representative. Payment for materials on site will only be allowed if a documentary proof is submitted that the contractor is the lawful owner of the materials.

SECURITY AND INSURANCE

The contractor shall be responsible for insurance of the project from the date of the site handover till final completion. The insurance shall include, but not be limited to, theft of material, natural disasters, and material damage or installed infrastructure due to riots.

The contractor shall ensure that his/ her equipment, materials, etc. will be secured for the duration of the project. The contractor shall be responsible for any measures required to secure the construction site. Security can include but is not limited to storage containers, security personnel on-site, fencing, etc.

The contractor shall be responsible to replace any stolen or damaged materials within 30 Calendar days from the date of the incident reported.

INSTRUCTIONS TO THE CONTRACTOR

Any instructions related to this contract must be given in writing and must be recorded in the site instruction book which will be available on-site at all times. The site instruction book must be provided by the contractor. No alterations, variations, instructions, requests, etc. will be allowed unless authorized by the SAPS or the duly authorized representative. No claims for extra work, without written authorization and/or instructions from the SAPS will be entertained.

It should be noted that no additional work or any other than that which was included in the bills of quantities or any Variation Orders may be executed before an official written instruction is received from the SAPS representative, subject to BAC approval.

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CONSULTANTS:

The contractor shall be responsible for the appointment of any registered professionals such as an Architect, Civil and Structural Engineer, Electrical Engineer, etc. which will be required to complete the project. The contractor shall be responsible for the cost related to the appointment of consultants in the Bid documents submitted. No additional fee will be approved for the appointment of any consultant.

MUNICIPAL APPROVALS:

The contractor shall be responsible to ensure that all structures erected by himself/ herself, the contractor, or the sub-contractor are approved by the local municipality where applicable. Furthermore, the contractor will be responsible for the fees related to approving the structures erected, or altered, which include but are not limited to, water and drainage lines, electrical connections, etc. The contractor shall be responsible for all costs related to the municipal approvals.

Where required, the contractor must obtain temporary approval for construction from the Local Municipality. The contractor will not be penalized for delays caused by the local municipality for approval.

LEAD TIME:

Refer to Table 1 below indicating the lead time for the supply and construction of the units. The lead time allowed will be dependent on the number of units required per project. The lead time indicated in Table 1 will allow for the manufacturing, delivery, construction of the Units, connections of services to units, etc. (final completion as per the specification document). The contractor will receive the order form on the day of the site handover. The contractor shall take possession of the site while manufacturing the unit.

Table 1: Lead times.

Amount of Units per Project	Lead Time
2 Units and less	8 Weeks
3-4 Units	10 Weeks
5-6 Units	12 Weeks
7-8 Units	14 Weeks
9-10 Units	16 Weeks
11-12 Units	18 Weeks

13-14 Units	20 Weeks
15-16 Units	22 Weeks

PENALTIES FOR LATE COMPLETION

Where the **contractor** fails to bring the **works** or **sections** thereof to **practical completion** on the date or dates stated in the **schedule** or revision thereof in terms of Clause 29.0, the **contractor** shall be liable to the **employer** for a **penalty** per **calendar day** for no completion of the **works** or each **section** thereof at the rate in the **schedule**. The **principal-agent** shall calculate the **penalty** due from the date or revised date in terms of Clause 29.0 up to and including the actual date of **practical completion** of the **works** or **section** thereof or the date of cancellation in terms of Clause 36.3

Where the **employer** levies such a **penalty** the **principal agent** shall detail the amount for recovery in terms of Clause 33.1

The **employer** may also consider termination of the contract pursuant to Clause 36.0 and 37.0

Penalties shall be calculated proportionally on the contract value of each phase of the project.

CALCULATION OF PENALTIES PER DAY (EXCLUDING VAT)

<u>CONTRACT PERIOD</u>	<u>RATE FOR R100 OF CONTRACT VALUE</u>
1 month	27,5 cents
1,5 months	22 cents
2 months	16,5 cents
2,5 months	13,5 cents
3 months	11 cents
3,5 months	9,5 cents
4 months	8,5 cents
4,5 months	7,5 cents
5 months	6,25 cents
6 months	5,75 cents
7 months	4,75 cents
8 months	4 cents
9 months	3,75 cents