



DEVELOPMENT BANK OF SOUTHERN AFRICA

**APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE,
DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS
(ALTERNATIVE BUILDING TECHNOLOGY) FOR 5 SCHOOLS IN
THE EASTERN CAPE WITHIN THE ACCELERATED SCHOOLS
INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI) 47
PROGRAMME ON BEHALF OF THE DEPARTMENT OF BASIC
EDUCATION (DBE) – CLUSTER D2B**

TENDER NO. RFP 305/2022

C2.2: BILL OF QUANTITIES



DEVELOPMENT BANK OF SOUTHERN AFRICA

**APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE,
DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS
(ALTERNATIVE BUILDING TECHNOLOGY) AT **JONGINTSIZI
SENIOR PRIMARY SCHOOL** IN THE EASTERN CAPE
PROVINCE**

TENDER NO. RFP 305/2022

C2.2: BILL OF QUANTITIES

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<u>SECTION 1 : PRELIMINARIES</u>				
		<u>SECTION 1 : PRELIMINARIES</u>				
	SABS 1200A	<u>PRELIMINARIES</u>				
1	8.3.1	<u>Fixed Charge Items:</u>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
1.3	8.3.2	<u>Site Facilities:</u>				
1.3.1	8.3.2.3	Establishment of facilities for the contractor The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
1.3.2	8.3.4	Remove all site establishment on completion including equipment store.	Item	1		
1.4		<u>Occupational Health and Safety Act:</u> <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
1.4.1		Preparation of contractor's site specific health and safety plan.	Item	1		
1.4.2		Preparation and submission of notification of construction work.	Item	1		
1.4.3		Provision of PPE (reflective vests, hard hats, footwear, earplugs, dust masks, gloves, high visibility overalls, etc)	Item	1		
1.4.4		Initial (baseline) medical examinations and exit examinations.	Item	1		
1.4.5		Induction training.	Item	1		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		
1.4.7		Submission of health and safety file.	Item	1		
1.4.8		All other fixed costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
1.5		Other Fixed-Charge Items:				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
2		<u>Time Related Items:</u>				
2.1	8.4.1	Contractual Requirements.	Item	1		
2.2	8.4.2.3	Operate and maintain facilities on site for the Contractor for the duration of the contract The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
2.3	8.4.3, 8.4.4 and 8.4.5	Other time charge related obligations including supervision for duration of construction, and company and office overhead costs.	Item	1		
	8.4.5	<u>Other Time Related Charges:</u>				
2.4		Environmental Management:				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMA's).	Item	1		
2.5		Occupational Health and Safety Act: <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
2.5.1		Provision of full time Construction Health and Safety Officer (SACPCMP CHSO Registration) for the duration of the construction period.	Item	1		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
2.5.2		Medical surveillance.	Item	1		
2.5.3		Maintenance of first aid boxes to GSR requirements	Item	1		
2.5.4		Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item	1		
2.5.6		Maintenance of health and safety file,	Item	1		
2.5.7		All other time related costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
2.6		Targeted Labour:				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		Site Security:				
2.7.1		Provision of all or any additional full-time site security, as determined by the Contractor, for the duration of the Contract over and above the Contractor's obligations for providing site security which is included in the tendered rates. Contractor to provide details of security services provided for the sum tendered for this item.	Item	1		
2.8		Other Costs:				
2.8.1		Notwithstanding the provisions made in the items listed above, the tenderer is to price against this item any requirements or overhead costs that he deems necessary for the safe execution and completion of the works.	Item	1		
SECTION NO 1: PRELIMINARIES			carried forward to final summary			

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 2 : MODULAR STRUCTURES The modular structures shall comply with the "Modular Structures Specification" annexed to these bills of quantities for tender purposes, as well as the terms and conditions of the applicable Agrément Certificate issued by Agrément South Africa. For tender purposes a layout drawing of each modular unit is annexed in Volume 3 of the tender documents. Tenderers must fully demonstrate the nature, detailing and specifications offered whilst conforming to the sizing and layout indicated all in specifications in accordance with the attached project specifications and in conjunction with drawings scheduled herein. Prices must include for all internal electrical and air-conditioning installations in accordance with the project specification. Fabrication and design drawings:				
1		Allow for all costs for in connection with and for preparation of all shop drawings of all modular structures and submission to the Project Manager for approval, in principal, prior to commencement of fabrication and for submission to the Project Manager of final design and working drawings.	Item	1		
2		Allow for all costs for in connection with and for preparation of and submission to the Project Manager of three sets of data books, two sets of as-built drawings in the prescribed formats, engineers' certificates, municipal approval, occupation certificate and inspection sheets with electrical COC and dismantling and re-location procedures.	Item	1		
		Design, supply, erect and commission the following modular structures:				
3		Construction of double Classroom unit, size 16.21m long x 7.06m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
4		Construction of Multi-purpose Classroom unit, size 10.69m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
5		Construction of Grade R classroom unit, size 6.44m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
6		Construction of Combined Admin and Nutrition unit, size 18.92m long x 6.44m wide complete including two covered entrances with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
7		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
TOTAL		SECTION NO. 2 : MODULAR STRUCTURES	carried forward to final summary			

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>SECTION NO. 3 : EXTERNAL WORKS</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>DEMOLITIONS</p> <p>Nature and extent:</p> <p>Description of demolitions give a rough guide only as to the scope of work. Tenders are therefore advised to visit the site before submitting a tender and to acquaint themselves with the nature and extent of the work to be done and the value of the recoverable materials which are to be re-used or handed over to the Employer. Unless otherwise stated, loose furniture, kitchen and other equipment, apparatus, machinery, etc, shall remain the property of the Employer and the removal thereof does not fall within the scope of this contract.</p> <p>The contractor shall completely demolish the buildings, etc in careful, skilful, practical and safe manner down to 200mm below ground level. Demolitions shall include breaking up and moving:</p> <ul style="list-style-type: none"> - all floors and surface beds; - all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished; - all services, manholes, etc in the ground to point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level. <p>Where only a portion of a building is to be demolished, it shall be done without damage to the remaining portion of the building. Any such damage shall be made good by the Contractor at his own expense.</p> <p>Removal of posts, etc with concrete bases shall include filling in holes with selected material from the excavations and compacting to minimum 93% Mod AASHTO density.</p> <p>Explosives:</p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p>Notices, etc:</p> <p>The contractor shall, before commencing demolition work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination, handling of asbestos/ fibre cement and other dangerous products, etc and pay all necessary fees. All receipts and required certificates shall be handed to the project manager and the contractor shall pay all relevant charges and fees, which shall be deemed to be included in his prices. The contractor shall give ample notice to the project manager and School Authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc.</p> <p>Removal or demolition of existing work comprising or containing asbestos products:</p>				

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>Where existing works comprising or containing asbestos products are removed or demolished, the contractor shall ensure that such work is conducted in accordance with the provisions of the Asbestos Regulations promulgated by Government Notice No. R. 155 of 10 February 2002, as amended, as provided for in clause 12(9) of the Construction Regulations. Such works shall be carried out by a company registered with Department of Labour as an Asbestos Contractor. Prior to the commencement of such works, a plan of work approved by an approved by an approved Asbestos Inspection Authority shall be submitted to the Provincial Director / Provincial Executive Manager.</p> <p>Materials from the demolitions, credit, etc:</p> <p>Materials recovered from the demolitions will become the property of the Contractor, who may allow credit in respect thereof where provided for in the bills of quantities. Such materials shall not be re-used in any new work without written permission from project manager.</p> <p>Disposal of debris:</p> <p>The contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions.</p> <p>EARTHWORKS</p> <p>Nature of ground:</p> <p>The nature of the ground is assumed to be gravel material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock".</p> <p>No claim for rock excavation shall be entertained unless the Contractor has timeously notified the project manager thereof prior to backfilling.</p> <p>Carting away excavated material:</p> <p>Descriptions of carting away excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on site.</p> <p>Filling:</p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 on page 6 of Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.</p> <p>Drainage Sand:</p> <p>The sand shall be clean, hard sand obtained from approved borrow pits.</p> <p>The sand shall comply with the requirements of SABS 1083, Table 1: Sand for concrete, and shall be medium grade. The nominal maximum particle size for medium grade sand shall be 2,00mm.</p> <p>Topsoil:</p> <p>Topsoil shall vary between sandy loamy soil and sandy clayey soil with an ideal composition of 15% to 25% clay, 10% silt/ sludge and 65% to 75% sand, with a minimum ratio of organic material of 2% . All material shall be free of harmful deposits as well as unwanted seeds.</p> <p>Testing of material and filling:</p>				

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with SANS 1200 series.</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p> <p>Costs of tests:</p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately).</p> <p>Formwork:</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> <p>Movement joints:</p> <p>Formwork to edges of concrete at movement joints has been measured elsewhere, unless otherwise described.</p> <p>EXCAVATIONS, ETC.</p> <p>Excavations in earth not exceeding 2m deep:</p>				
1		To reduce levels under aprons including edge beams	m ³	32		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
2		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	32		
		Compaction of surfaces:				
3		Compaction of ground surfaces under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	277		
		Inspection tests:				
4		Excavation in earth not exceeding 0,5m ³ to expose existing foundations including preparing and issuing a photo report with measurements to the project manager, backfilling and compacting the excavation, etc.	No	8		
		Prescribed density tests on filling:				
5		Modified AASHTO density test	No	2		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		25MPa/19mm Reinforced concrete cast against excavated				
6		Concrete in apron laid to fall	m³	28		
7		Concrete in edge beams	m³	4		
		Concrete Tests				
8		Making and testing set of three 150x150x150mm concrete strength test cubes.	No	6		
9		Schmidt hammer test including cleaning, preparation, testing and submission of a test report to the project manager.	no	8		
		Rough formwork (Degree of accuracy III):				
10		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	209		
		Finishing top surfaces of concrete smooth with a wood float:				
11		Surface beds to falls.	m²	277		
		Fabric reinforcement:				
12		Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m²	277		
		Vertical construction joints through concrete including thick cement slurry to one face:				
13		Surface beds not exceeding 300mm thick.	m	185		
		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces				
14		10mm Joints not exceeding 300mm high.	m	233		
		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:				
15		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary	m	233		
		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape				
16		Under surface beds, etc.	m²	277		
TOTAL		SECTION NO. 3 : EXTERNAL WORKS	carried forward to final summary			

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
1		SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. 3067.60.02.GZA.07.U015 Site LV Reticulation Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	LV SUPPLY CABLE				
		Electrical Supply point The Contractor shall supply and connect the supply cable from the supply point, to the new buildings. Complete with all excavations, terminations, sleeves and all material needed to complete the installation and all accessories.				
1.01	EMCA	<u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.02	EMCA	<u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.03	EMCA	<u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.04	EMCA	<u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.05	EMCA	<u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.06	EMCA	<u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.07	EMCA	<u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	160 160 10		
1.08	EMCA	<u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	0 0 0		
1.09	EMCA	<u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u> i) Supply 18.1 (a) ii) Install 18.2 (a) 18.1 (a) & 18.2 (a) iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	m m No	140 140 6		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
B	EMCA	EARTHING AND BONDING				
		<u>All Earthing and bonding shall comply with the latest</u> requirements of SANS10142-1 and readings shall be obtained as per requirements of the Certificate of Compliance testing. All structures (including modular, ablutions, existing buildings, elevated water tower and boundary fencing) to be properly earthed and bonded by means of insulated earth wire and Cu electrodes.				
1.10		<u>16mm² insulated earth wire</u> i) Supply ii) Install iii) Terminate, complete with lugs and/or clamps, stainless steel nuts, bolts and washers	m m ea	250 250 60		
1.11		<u>20mmØ galvanised steel pipe (bosal) c/w all saddles etc.</u> i) Supply ii) Install	m m	60 60		
1.12		<u>1.2m or 1.5m Cu Earth Electrode</u> i) Supply ii) Install	ea ea	24 24		
C	EMCA	CABLE ACCESSORIES				
1.13	EMCA	Cable sleeves as per Specification, 110mm dia PVC complete with couplings and 1mm galv. draw wire i) Supply ii) Install	m m	0 0		
1.14	EMCA	Cable sleeves as per Specification, 50mm dia PVC complete with couplings and 1mm galv. draw wire i) Supply ii) Install	m m	80 80		
1.15	EMCA	Nett amount for cable route markers i) Supply ii) Install	No No	0 0		
1.16	EMCA	Nett amount for concrete cable slabs i) Supply ii) Install	No No	0 0		
D	EMCA	EXCAVATION				
	EMCA	Excavating, back filling, consolidation, importation of soil and dumping of all rock and stone removed during excavations including cleaning of cable routes all according to particular specification (including hand excavations where necessary along existing cable routes.				
1.17	18.2 (i)	i) Soft / Pickable Soil: Hand Pickable, 0.6m deep x 0.45m wide sleeve trench.	m³	38		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m³	8		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m³	4		
1.18	EMCA	Drilling for sleeves under road surfaces (6 m sleeves) (including excavation, drilling, sleeve, pipes and welding) i) Drill 110mm dia. for road crossing (Soft) ii) Drill 110mm dia. for road crossing (Intermediate)	m m	0 0		
1.19	18.2 (i)	Sifted Material for backfill (smaller than 60mm dia) i) Supply	m³	10		
1.20	18.2 (i)	Imported Material (soft soil) for backfill i) Supply	m³	4		
1.21	EMCA	Danger tape: Orange/Yellow PVC material-300mm above cable i) Supply ii) Install	m m	160 160		

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
E	ESPL	LV DISTRIBUTION BOARD AND KIOSK				
1.22	ESPL 12.1 (a)	AS-build drawings Preparing and furnishing the "As built" drawings of complete electrical installation	sum	1		
	ESPL	LV-Kiosk, wall mounted as indicated on the drawings				
	12.2 (a)	i) Supply	No	1		
1.23	12.3 (a)	ii) Install	No	1		
	ESPL	Bore hole pump kiosk, mounted on plinth, with doors, complete with circuit breaker and accessories				
	12.2 (a)	i) Supply	No	Elsewhere	N/A	N/A
1.24	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
	ESPL 12.4 (a)	Labelling Labelling of all LV-cables and DB-Board circuits and complete typed legend cards, complete to specification	Sum	1		
1.25	ESPL 12.4 (a)	Test and commission Testing and commissioning the electrical installation complete and providing the C.O.C. for each DB / kiosk LV Kiosk	Sum	1		
TOTAL		SECTION NO. 4 : ELECTRICAL INSTALLATION	carried forward to final summary			

JONGINTSIZI SENIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 5 : PROVISIONAL SUMS SUPPLEMENTARY PREAMBLES General Work for which budgetary allowances are provided will be measured and valued in accordance with the NEC3 Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances. GAS STOVE AND GAS INSTALLATION The following provisional amounts are for work to be carried out by domestic sub-contractors: 1 Provide the sum of R 110 000.00 (One Hundred and Ten Thousand Rand) for supply and installation of a gas stove including gas installation, fireboard, lockable gas cage, extraction fan, training, etc. 2 Allow for profit 3 Allow for attendance TARGETED LABOUR ALLOWANCES 4 Provide the sum of R 40 000.00 (Forty Thousand Rand) for the employment of a Community Liason Officer for the duration of the construction period. 5 Allow for profit 6 Allow for attendance MONETARY ALLOWANCES, ETC. The following monetary provisions are to be omitted from the contract sum and used as directed below: 7 Provide the sum of R 320 000 (Three Hundred and Twenty Thousand) for Contingencies, to be used as instructed by the Project Manager.				
			Item	1	R 110 000.00	R 110 000.00
			Item	1		
			Item	1		
			Item	1	R 40 000.00	R 40 000.00
			Item	1		
			Item	1		
			Item	1	R 320 000.00	R 320 000.00
TOTAL		SECTION NO. 5 : PROVISIONAL SUMS	carried forward to final summary			

JONGINTSIZI SENIOR PRIMARY SCHOOL			
FINAL SUMMARY	PAGE		TOTAL
SECTION NO. 1 : PRELIMINARIES	5	R	
SECTION NO. 2 : MODULAR STRUCTURES	7	R	
SECTION NO. 3 : EXTERNAL WORKS	11	R	
SECTION NO. 4 : ELECTRICAL INSTALLATION	14	R	
SECTION NO. 5 : PROVISIONAL SUMS	15	R	
SUB - TOTAL EXCLUDING VAT		R	
ADD: 15% VALUE ADDED TAX		R	
TOTAL INCLUDING 15% VAT		R	



DEVELOPMENT BANK OF SOUTHERN AFRICA

**APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE,
DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS
(ALTERNATIVE BUILDING TECHNOLOGY) AT **LAMPTA JUNIOR
PRIMARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

TENDER NO. RFP 305/2022

C2.2: BILL OF QUANTITIES

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<u>SECTION 1 : PRELIMINARIES</u>				
		<u>SECTION 1 : PRELIMINARIES</u>				
	SABS 1200A	<u>PRELIMINARIES</u>				
1	8.3.1	<u>Fixed Charge Items:</u>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
1.3	8.3.2	<u>Site Facilities:</u>				
1.3.1	8.3.2.3	Establishment of facilities for the contractor The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
1.3.2	8.3.4	Remove all site establishment on completion including equipment store.	Item	1		
1.4		<u>Occupational Health and Safety Act:</u> <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
1.4.1		Preparation of contractor's site specific health and safety plan.	Item	1		
1.4.2		Preparation and submission of notification of construction work.	Item	1		
1.4.3		Provision of PPE (reflective vests, hard hats, footwear, earplugs, dust masks, gloves, high visibility overalls, etc)	Item	1		
1.4.4		Initial (baseline) medical examinations and exit examinations.	Item	1		
1.4.5		Induction training.	Item	1		

LAMPTA JUNIOR PRIMARY SCHOOL						
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		
1.4.7		Submission of health and safety file.	Item	1		
1.4.8		All other fixed costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
1.5		Other Fixed-Charge Items:				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
2		<u>Time Related Items:</u>				
2.1	8.4.1	Contractual Requirements.	Item	1		
2.2	8.4.2.3	Operate and maintain facilities on site for the Contractor for the duration of the contract The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
2.3	8.4.3, 8.4.4 and 8.4.5	Other time charge related obligations including supervision for duration of construction, and company and office overhead costs.	Item	1		
	8.4.5	<u>Other Time Related Charges:</u>				
2.4		Environmental Management:				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMA's).	Item	1		
2.5		Occupational Health and Safety Act: <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
2.5.1		Provision of full time Construction Health and Safety Officer (SACPCMP CHSO Registration) for the duration of the construction period.	Item	1		

LAMPTA JUNIOR PRIMARY SCHOOL						
2.5.2		Medical surveillance.	Item	1		
2.5.3		Maintenance of first aid boxes to GSR requirements	Item	1		
2.5.4		Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item	1		
2.5.6		Maintenance of health and safety file,	Item	1		
2.5.7		All other time related costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
2.6		Targeted Labour:				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		Site Security:				
2.7.1		Provision of all or any additional full-time site security, as determined by the Contractor, for the duration of the Contract over and above the Contractor's obligations for providing site security which is included in the tendered rates. Contractor to provide details of security services provided for the sum tendered for this item.	Item	1		
2.8		Other Costs:				
2.8.1		Notwithstanding the provisions made in the items listed above, the tenderer is to price against this item any requirements or overhead costs that he deems necessary for the safe execution and completion of the works.	Item	1		
SECTION NO 1: PRELIMINARIES			carried forward to final summary			

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 2 : MODULAR STRUCTURES The modular structures shall comply with the "Modular Structures Specification" annexed to these bills of quantities for tender purposes, as well as the terms and conditions of the applicable Agrément Certificate issued by Agrément South Africa. For tender purposes a layout drawing of each modular unit is annexed in Volume 3 of the tender documents. Tenderers must fully demonstrate the nature, detailing and specifications offered whilst conforming to the sizing and layout indicated all in specifications in accordance with the attached project specifications and in conjunction with drawings scheduled herein. Prices must include for all internal electrical and air-conditioning installations in accordance with the project specification. Fabrication and design drawings:				
1		Allow for all costs for in connection with and for preparation of all shop drawings of all modular structures and submission to the Project Manager for approval, in principal, prior to commencement of fabrication and for submission to the Project Manager of final design and working drawings.	Item	1		
2		Allow for all costs for in connection with and for preparation of and submission to the Project Manager of three sets of data books, two sets of as-built drawings in the prescribed formats, engineers' certificates, municipal approval, occupation certificate and inspection sheets with electrical COC and dismantling and re-location procedures. Design, supply, erect and commission the following modular structures:	Item	1		
3		Construction of single Classroom unit, size 8.14m long x 7.06m wide complete with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
4		Construction of Multi-purpose Classroom unit, size 10.69m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
5		Construction of Grade R classroom unit, size 6.44m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
6		Construction of Combined Admin and Nutrition unit, size 18.92m long x 6.44m wide complete including two covered entrances with windows glazed with 6.3mm laminated safety glass, external door with security gate, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
6		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
TOTAL		SECTION NO. 2 : MODULAR STRUCTURES	carried forward to final summary			

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
		<p>SECTION NO. 3 : EXTERNAL WORKS</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>DEMOLITIONS</p> <p>Nature and extent:</p> <p>Description of demolitions give a rough guide only as to the scope of work. Tenders are therefore advised to visit the site before submitting a tender and to acquaint themselves with the nature and extent of the work to be done and the value of the recoverable materials which are to be re-used or handed over to the Employer. Unless otherwise stated, loose furniture, kitchen and other equipment, apparatus, machinery, etc, shall remain the property of the Employer and the removal thereof does not fall within the scope of this contract.</p> <p>The contractor shall completely demolish the buildings, etc in careful, skilful, practical and safe manner down to 200mm below ground level. Demolitions shall include breaking up and moving:</p> <ul style="list-style-type: none"> - all floors and surface beds; - all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished; - all services, manholes, etc in the ground to point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level. <p>Where only a portion of a building is to be demolished, it shall be done without damage to the remaining portion of the building. Any such damage shall be made good by the Contractor at his own expense.</p> <p>Removal of posts, etc with concrete bases shall include filling in holes with selected material from the excavations and compacting to minimum 93% Mod AASHTO density.</p> <p>Explosives:</p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p>Notices, etc:</p> <p>The contractor shall, before commencing demolition work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination, handling of asbestos/ fibre cement and other dangerous products, etc and pay all necessary fees. All receipts and required certificates shall be handed to the project manager and the contractor shall pay all relevant charges and fees, which shall be deemed to be included in his prices. The contractor shall give ample notice to the project manager and School Authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc.</p> <p>Removal or demolition of existing work comprising or containing asbestos products:</p>				

LAMPTA JUNIOR PRIMARY SCHOOL

Item	Page	Description	Uom	Quantity	Rate	Amount
		<p>Where existing works comprising or containing asbestos products are removed or demolished, the contractor shall ensure that such work is conducted in accordance with the provisions of the Asbestos Regulations promulgated by Government Notice No. R. 155 of 10 February 2002, as amended, as provided for in clause 12(9) of the Construction Regulations. Such works shall be carried out by a company registered with Department of Labour as an Asbestos Contractor. Prior to the commencement of such works, a plan of work approved by an approved by an approved Asbestos Inspection Authority shall be submitted to the Provincial Director / Provincial Executive Manager.</p> <p>Materials from the demolitions, credit, etc:</p> <p>Materials recovered from the demolitions will become the property of the Contractor, who may allow credit in respect thereof where provided for in the bills of quantities. Such materials shall not be re-used in any new work without written permission from project manager.</p> <p>Disposal of debris:</p> <p>The contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions.</p> <p>EARTHWORKS</p> <p>Nature of ground:</p> <p>The nature of the ground is assumed to be gravel material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock".</p> <p>No claim for rock excavation shall be entertained unless the Contractor has timeously notified the project manager thereof prior to backfilling.</p> <p>Carting away excavated material:</p> <p>Descriptions of carting away excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on site.</p> <p>Filling:</p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 on page 6 of Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.</p> <p>Drainage Sand:</p> <p>The sand shall be clean, hard sand obtained from approved borrow pits.</p> <p>The sand shall comply with the requirements of SABS 1083, Table 1: Sand for concrete, and shall be medium grade. The nominal maximum particle size for medium grade sand shall be 2,00mm.</p> <p>Topsoil:</p> <p>Topsoil shall vary between sandy loamy soil and sandy clayey soil with an ideal composition of 15% to 25% clay, 10% silt/ sludge and 65% to 75% sand, with a minimum ratio of organic material of 2% . All material shall be free of harmful deposits as well as unwanted seeds.</p> <p>Testing of material and filling:</p>				

LAMPTA JUNIOR PRIMARY SCHOOL

Item	Page	Description	Uom	Quantity	Rate	Amount
		<p>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with SANS 1200 series.</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p> <p>Costs of tests:</p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately).</p> <p>Formwork:</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> <p>Movement joints:</p> <p>Formwork to edges of concrete at movement joints has been measured elsewhere, unless otherwise described.</p> <p>EXCAVATIONS</p> <p>Excavations in earth not exceeding 2m deep:</p>				
1		To reduce levels under surface beds.	m ³	35		
2		To reduce levels under aprons including edge beams	m ³	29		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
3		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	64		
		Compaction of surfaces:				
4		Compaction of ground surfaces under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	427		
		Filling of G6 gravel material supplied by the contractor, compacted to 93% Mod AASHTO density				
5		Under raft slabs, etc.	m ³	28		

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
6		30MPa/19mm Reinforced concrete cast against excavated surfaces:				
		Raft foundations.	m³	33		
7		25MPa/19mm Reinforced concrete:				
		Aprons to fall.	m³	26		
8		Edge beams.	m³	3		
		Test cubes:				
9		Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	6		
		Finishing top surfaces of concrete smooth with a steel trowel:				
10		Surface beds, slabs, etc.	m²	175		
11		Surface beds to falls.	m²	252		
		Rough formwork (Degree of accuracy III):				
12		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	285		
		High tensile steel reinforcement to structural concrete work:				
13		8mm Diameter bars.	t	0.90		
14		10mm Diameter bars.	t	0.90		
15		12mm Diameter bars.	t	0.90		
		Fabric reinforcement:				
16		Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m²	252		
17		Mesh Ref. No. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m²	175		
		Vertical construction joints through concrete including thick cement slurry to one face:				
18		Surface beds not exceeding 300mm thick.	m	329		
		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces				
19		10mm Joints not exceeding 300mm high.	m	377		
		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:				
20		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary	m	377		
		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape				
21		Under surface beds, etc.	m²	480		
TOTAL		SECTION NO. 3: EXTERNAL WORKS	carried forward to final summary			

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
1		SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. 3067.60.02.GZA.07.U013 Site LV Reticulation Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	LV SUPPLY CABLE				
		Electrical Supply point The Contractor shall supply and connect the supply cable from the supply point, to the new buildings. Complete with all excavations, terminations, sleeves and all material needed to complete the installation and all accessories.				
1.01	EMCA	<u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.02	EMCA	<u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.03	EMCA	<u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.04	EMCA	<u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.05	EMCA	<u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.06	EMCA	<u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.07	EMCA	<u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	170		
	18.2 (a)	ii) Install	m	170		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	10		
1.08	EMCA	<u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.09	EMCA	<u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	125		
	18.2 (a)	ii) Install	m	120		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	6		

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
B	EMCA	EARTHING AND BONDING				
		<u>All Earthing and bonding shall comply with the latest</u> requirements of SANS10142-1 and readings shall be obtained as per requirements of the Certificate of Compliance testing. All structures (including modular, ablutions, existing buildings, elevated water tower and boundary fencing) to be properly earthed and bonded by means of insulated earth wire and Cu electrodes.				
1.10		<u>16mm² insulated earth wire</u> i) Supply ii) Install iii) Terminate, complete with lugs and/or clamps, stainless steel nuts, bolts and washers	m m ea	250 250 60		
1.11		<u>20mmØ galvanised steel pipe (bosal) c/w all saddles etc.</u> i) Supply ii) Install	m m	60 60		
1.12		<u>1.2m or 1.5m Cu Earth Electrode</u> i) Supply ii) Install	ea ea	24 24		
C	EMCA	CABLE ACCESSORIES				
1.13	EMCA	Cable sleeves as per Specification, 110mm dia PVC complete with couplings and 1mm galv. draw wire i) Supply ii) Install	m m	0 0		
1.14	EMCA	Cable sleeves as per Specification, 50mm dia PVC complete with couplings and 1mm galv. draw wire i) Supply ii) Install	m m	95 95		
1.15	EMCA	Nett amount for cable route markers i) Supply ii) Install	No No	0 0		
1.16	EMCA	Nett amount for concrete cable slabs i) Supply ii) Install	No No	0 0		
D	EMCA	EXCAVATION				
	EMCA	Excavating, back filling, consolidation, importation of soil and dumping of all rock and stone removed during excavations including cleaning of cable routes all according to particular specification (including hand excavations where necessary along existing cable routes.				
1.17	18.2 (i)	i) Soft / Pickable Soil: Hand Pickable, 0.6m deep x 0.45m wide sleeve trench.	m³	40		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m³	8		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m³	4		
1.18	EMCA	Drilling for sleeves under road surfaces (6 m sleeves) (including excavation, drilling, sleeve, pipes and welding) i) Drill 110mm dia. for road crossing (Soft) ii) Drill 110mm dia. for road crossing (Intermediate)	m m	0 0		
1.19	18.2 (i)	Sifted Material for backfill (smaller than 60mm dia) i) Supply	m³	10		
1.20	18.2 (i)	Imported Material (soft soil) for backfill i) Supply	m³	4		
1.21	EMCA	Danger tape: Orange/Yellow PVC material-300mm above cable i) Supply ii) Install	m m	160 160		

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
E	ESPL	LV DISTRIBUTION BOARD AND KIOSK				
1.22	ESPL 12.1 (a)	AS-build drawings Preparing and furnishing the "As built" drawings of complete electrical installation	sum	1		
	ESPL	LV-Kiosk, wall mounted as indicated on the drawings				
	12.2 (a)	i) Supply	No	1		
1.23	12.3 (a)	ii) Install	No	1		
	ESPL	Bore hole pump kiosk, mounted on plinth, with doors, complete with circuit breaker and accessories				
	12.2 (a)	i) Supply	No	Elsewhere	N/A	N/A
1.24	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
	ESPL 12.4 (a)	Labelling Labelling of all LV-cables and DB-Board circuits and complete typed legend cards, complete to specification	Sum	1		
1.25	ESPL 12.4 (a)	Test and commission Testing and commissioning the electrical installation complete and providing the C.O.C. for each DB / kiosk LV Kiosk	Sum	1		
TOTAL		SECTION NO. 4 : ELECTRICAL INSTALLATION	carried forward to final summary			

LAMPTA JUNIOR PRIMARY SCHOOL						
Item	Page	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 5 : PROVISIONAL SUMS SUPPLEMENTARY PREAMBLES General Work for which budgetary allowances are provided will be measured and valued in accordance with the NEC3 Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances. GAS STOVE AND GAS INSTALLATION The following provisional amounts are for work to be carried out by domestic sub-contractors: 1 Provide the sum of R 110 000.00 (One Hundred and Ten Thousand Rand) for supply and installation of a gas stove including gas installation, fireboard, lockable gas cage, extraction fan, training, etc. 2 Allow for profit 3 Allow for attendance TARGETED LABOUR ALLOWANCES 4 Provide the sum of R 40 000.00 (Forty Thousand Rand) for the employment of a Community Liason Officer for the duration of the construction period. 5 Allow for profit 6 Allow for attendance MONETARY ALLOWANCES, ETC. The following monetary provisions are to be omitted from the contract sum and used as directed below: 7 Provide the sum of R 320 000 (Three Hundred and Twenty Thousand) for Contingencies, to be used as instructed by the Project Manager.				
			Item	1	R 110 000.00	R 110 000.00
			Item	1		
			Item	1		
			Item	1	R 40 000.00	R 40 000.00
			Item	1		
			Item	1		
			Item	1	R 320 000.00	R 320 000.00
TOTAL		SECTION NO. 5 : PROVISIONAL SUMS	carried forward to final summary			

LAMPTA JUNIOR PRIMARY SCHOOL		
FINAL SUMMARY	PAGE	TOTAL
SECTION NO. 1 : PRELIMINARIES	20	R
SECTION NO. 2 : MODULAR STRUCTURES	22	R
SECTION NO. 3 : EXTERNAL WORKS	26	R
SECTION NO. 4 : ELECTRICAL INSTALLATION	29	R
SECTION NO. 5 : PROVISIONAL SUMS	30	R
SUB - TOTAL EXCLUDING VAT		R
ADD: 15% VALUE ADDED TAX		R
TOTAL INCLUDING 15% VAT		R



DEVELOPMENT BANK OF SOUTHERN AFRICA

**APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE,
DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS
(ALTERNATIVE BUILDING TECHNOLOGY) AT **MAYIBONGWE
JUNIOR PRIMARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

TENDER NO. RFP 305/2022

C2.2: BILL OF QUANTITIES

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<u>SECTION 1 : PRELIMINARIES</u>				
		<u>SECTION 1 : PRELIMINARIES</u>				
	SABS 1200A	<u>PRELIMINARIES</u>				
1	8.3.1	<u>Fixed Charge Items:</u>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
1.3	8.3.2	<u>Site Facilities:</u>				
1.3.1	8.3.2.3	Establishment of facilities for the contractor The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
1.3.2	8.3.4	Remove all site establishment on completion including equipment store.	Item	1		
1.4		<u>Occupational Health and Safety Act:</u> <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
1.4.1		Preparation of contractor's site specific health and safety plan.	Item	1		
1.4.2		Preparation and submission of notification of construction work.	Item	1		
1.4.3		Provision of PPE (reflective vests, hard hats, footwear, earplugs, dust masks, gloves, high visibility overalls, etc)	Item	1		
1.4.4		Initial (baseline) medical examinations and exit examinations.	Item	1		
1.4.5		Induction training.	Item	1		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		
1.4.7		Submission of health and safety file.	Item	1		
1.4.8		All other fixed costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
1.5		Other Fixed-Charge Items:				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
2		<u>Time Related Items:</u>				
2.1	8.4.1	Contractual Requirements.	Item	1		
2.2	8.4.2.3	Operate and maintain facilities on site for the Contractor for the duration of the contract The tendred sum shall include the following : - Offices, storage sheds, fencing, etc - Ablution and latrine facilities - Water supplies,electric power and communications, dealing with water and access - Tools and equipment - Construction plant	Item	1		
2.3	8.4.3, 8.4.4 and 8.4.5	Other time charge related obligations including supervision for duration of construction, and company and office overhead costs.	Item	1		
	8.4.5	<u>Other Time Related Charges:</u>				
2.4		Environmental Management:				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMA's).	Item	1		
2.5		Occupational Health and Safety Act: <i>The Contractor shall comply with the requirements set out in the Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.</i> <i>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</i> <i>Provision for pricing for compliance with the abovementioned regulations and the Health and Safety Specifications are made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</i>				
2.5.1		Provision of full time Construction Health and Safety Officer (SACPCMP CHSO Registration) for the duration of the construction period.	Item	1		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
2.5.2		Medical surveillance.	Item	1		
2.5.3		Maintenance of first aid boxes to GSR requirements	Item	1		
2.5.4		Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item	1		
2.5.6		Maintenance of health and safety file,	Item	1		
2.5.7		All other time related costs required for compliance with the requirements set out in the Occupational Health and Safety Act No 85 of 1993, Edition 23 (latest edition) including the Code of Practice: Managing exposure to SARS-CoV-2 in the workplace.	Item	1		
2.6		Targeted Labour:				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		Site Security:				
2.7.1		Provision of all or any additional full-time site security, as determined by the Contractor, for the duration of the Contract over and above the Contractor's obligations for providing site security which is included in the tendered rates. Contractor to provide details of security services provided for the sum tendered for this item.	Item	1		
2.8		Other Costs:				
2.8.1		Notwithstanding the provisions made in the items listed above, the tenderer is to price against this item any requirements or overhead costs that he deems necessary for the safe execution and completion of the works.	Item	1		
SECTION NO 1: PRELIMINARIES			carried forward to final summary			

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 2 : MODULAR STRUCTURES The modular structures shall comply with the "Modular Structures Specification" annexed to these bills of quantities for tender purposes, as well as the terms and conditions of the applicable Agrément Certificate issued by Agrément South Africa. For tender purposes a layout drawing of each modular unit is annexed in Volume 3 of the tender documents. Tenderers must fully demonstrate the nature, detailing and specifications offered whilst conforming to the sizing and layout indicated all in specifications in accordance with the attached project specifications and in conjunction with drawings scheduled herein. Prices must include for all internal electrical and air-conditioning installations in accordance with the project specification. Fabrication and design drawings:				
1		Allow for all costs for in connection with and for preparation of all shop drawings of all modular structures and submission to the Project Manager for approval, in principal, prior to commencement of fabrication and for submission to the Project Manager of final design and working drawings.	Item	1		
2		Allow for all costs for in connection with and for preparation of and submission to the Project Manager of three sets of data books, two sets of as-built drawings in the prescribed formats, engineers' certificates, municipal approval, occupation certificate and inspection sheets with electrical COC and dismantling and re-location procedures.	Item	1		
		Design, supply, erect and commission the following modular structures:				
3		Construction of double Classroom unit, size 16.21m long x 7.06m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gates, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
4		Construction of Multi-purpose Classroom unit, size 10.69m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gates, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
5		Construction of Grade R classroom unit, size 6.44m long x 6.44m wide complete including 2.2m wide verandah with windows glazed with 6.3mm laminated safety glass, external door with security gates, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
6		Construction of Combined Admin and Nutrition unit, size 18.92m long x 6.44m wide complete including two covered entrances with windows glazed with 6.3mm laminated safety glass, external door with security gates, steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified.	No	1		
7		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
TOTAL		SECTION NO. 2 : MODULAR STRUCTURES	carried forward to final summary			

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>SECTION NO. 3 : EXTERNAL WORKS</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>DEMOLITIONS</p> <p>Nature and extent:</p> <p>Description of demolitions give a rough guide only as to the scope of work. Tenders are therefore advised to visit the site before submitting a tender and to acquaint themselves with the nature and extent of the work to be done and the value of the recoverable materials which are to be re-used or handed over to the Employer. Unless otherwise stated, loose furniture, kitchen and other equipment, apparatus, machinery, etc, shall remain the property of the Employer and the removal thereof does not fall within the scope of this contract.</p> <p>The contractor shall completely demolish the buildings, etc in careful, skilful, practical and safe manner down to 200mm below ground level. Demolitions shall include breaking up and moving:</p> <ul style="list-style-type: none"> - all floors and surface beds; - all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished; - all services, manholes, etc in the ground to point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level. <p>Where only a portion of a building is to be demolished, it shall be done without damage to the remaining portion of the building. Any such damage shall be made good by the Contractor at his own expense.</p> <p>Removal of posts, etc with concrete bases shall include filling in holes with selected material from the excavations and compacting to minimum 93% Mod AASHTO density.</p> <p>Explosives:</p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p>Notices, etc:</p> <p>The contractor shall, before commencing demolition work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination, handling of asbestos/ fibre cement and other dangerous products, etc and pay all necessary fees. All receipts and required certificates shall be handed to the project manager and the contractor shall pay all relevant charges and fees, which shall be deemed to be included in his prices. The contractor shall give ample notice to the project manager and School Authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc.</p> <p>Removal or demolition of existing work comprising or containing asbestos products:</p>				

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>Where existing works comprising or containing asbestos products are removed or demolished, the contractor shall ensure that such work is conducted in accordance with the provisions of the Asbestos Regulations promulgated by Government Notice No. R. 155 of 10 February 2002, as amended, as provided for in clause 12(9) of the Construction Regulations. Such works shall be carried out by a company registered with Department of Labour as an Asbestos Contractor. Prior to the commencement of such works, a plan of work approved by an approved by an approved Asbestos Inspection Authority shall be submitted to the Provincial Director / Provincial Executive Manager.</p> <p>Materials from the demolitions, credit, etc:</p> <p>Materials recovered from the demolitions will become the property of the Contractor, who may allow credit in respect thereof where provided for in the bills of quantities. Such materials shall not be re-used in any new work without written permission from project manager.</p> <p>Disposal of debris:</p> <p>The contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions.</p> <p>EARTHWORKS</p> <p>Nature of ground:</p> <p>The nature of the ground is assumed to be gravel material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock".</p> <p>No claim for rock excavation shall be entertained unless the Contractor has timeously notified the project manager thereof prior to backfilling.</p> <p>Carting away excavated material:</p> <p>Descriptions of carting away excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on site.</p> <p>Filling:</p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 on page 6 of Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.</p> <p>Drainage Sand:</p> <p>The sand shall be clean, hard sand obtained from approved borrow pits.</p> <p>The sand shall comply with the requirements of SABS 1083, Table 1: Sand for concrete, and shall be medium grade. The nominal maximum particle size for medium grade sand shall be 2,00mm.</p> <p>Topsoil:</p> <p>Topsoil shall vary between sandy loamy soil and sandy clayey soil with an ideal composition of 15% to 25% clay, 10% silt/ sludge and 65% to 75% sand, with a minimum ratio of organic material of 2% . All material shall be free of harmful deposits as well as unwanted seeds.</p> <p>Testing of material and filling:</p>				

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with SANS 1200 series.</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p> <p>Costs of tests:</p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately).</p> <p>Formwork:</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> <p>Movement joints:</p> <p>Formwork to edges of concrete at movement joints has been measured elsewhere, unless otherwise described.</p> <p>EXCAVATIONS, ETC.</p> <p>Excavations in earth not exceeding 2m deep:</p>				
1		To reduce levels under aprons including edge beams	m ³	32		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
2		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	32		
		Compaction of surfaces:				
3		Compaction of ground surfaces under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	277		
		Inspection tests:				
4		Excavation in earth not exceeding 0,5m ³ to expose existing foundations including preparing and issuing a photo report with measurements to the project manager, backfilling and compacting the excavation, etc.	No	8		
		Prescribed density tests on filling:				
5		Modified AASHTO density test	No	2		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		25MPa/19mm Reinforced concrete cast against excavated surfaces:				
6		Concrete in apron laid to fall	m³	28		
7		Concrete in edge beams	m³	4		
		Concrete Tests:				
8		Making and testing set of three 150x150x150mm concrete strength test cubes.	No	6		
9		Schmidt hammer test including cleaning, preparation, testing and submission of a test report to the project manager.	no	8		
		Rough formwork (Degree of accuracy III):				
10		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	209		
		Finishing top surfaces of concrete smooth with a wood float:				
11		Surface beds to falls.	m²	277		
		Fabric reinforcement:				
12		Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m²	277		
		Vertical construction joints through concrete including thick cement slurry to one face:				
13		Surface beds not exceeding 300mm thick.	m	185		
		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces				
14		10mm Joints not exceeding 300mm high.	m	233		
		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:				
15		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary	m	233		
		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape				
16		Under surface beds, etc.	m²	277		
TOTAL		SECTION NO. 3 : EXTERNAL WORKS	carried forward to final summary			

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
1		SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. 3067.60.02.GZA.07.U017 Site LV Reticulation Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	LV SUPPLY CABLE				
		Electrical Supply point The Contractor shall supply and connect the supply cable from the supply point, to the new buildings. Complete with all excavations, terminations, sleeves and all material needed to complete the installation and all accessories.				
1.01	EMCA	<u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.02	EMCA	<u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.03	EMCA	<u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.04	EMCA	<u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.05	EMCA	<u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.06	EMCA	<u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
1.07	EMCA	<u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	240		
	18.2 (a)	ii) Install	m	240		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	10		
1.08	EMCA	<u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	0		
	18.2 (a)	ii) Install	m	0		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
1.09	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		
	EMCA	<u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u>				
	18.1 (a)	i) Supply	m	140		
	18.2 (a)	ii) Install	m	140		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	6		
B	EMCA	EARTHING AND BONDING				
1.10		<u>All Earthing and bonding shall comply with the latest</u> requirements of SANS10142-1 and readings shall be obtained as per requirements of the Certificate of Compliance testing. All structures (including modular, ablutions, existing buildings, elevated water tower and boundary fencing) to be properly earthed and bonded by means of insulated earth wire and Cu electrodes.				
		<u>16mm² insulated earth wire</u>				
		i) Supply	m	250		
		ii) Install	m	250		
		iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts	ea	60		
1.11		<u>20mmØ galvanised steel pipe (bosal) c/w all saddles etc.</u>				
		i) Supply	m	60		
		ii) Install	m	60		
1.12		<u>1.2m or 1.5m Cu Earth Electrode</u>				
		i) Supply	ea	24		
		ii) Install	ea	24		
C	EMCA	CABLE ACCESSORIES				
1.13	EMCA	Cable sleeves as per Specification, 110mm dia PVC complete with couplings and 1mm galv. draw wire				
	18.1 (g)	i) Supply	m	0		
	18.2 (g)	ii) Install	m	0		
1.14	EMCA	Cable sleeves as per Specification, 50mm dia PVC complete with couplings and 1mm galv. draw wire				
	18.1 (g)	i) Supply	m	140		
	18.2 (g)	ii) Install	m	140		
1.15	EMCA	Nett amount for cable route markers				
	18.1 (b)	i) Supply	No	0		
	18.2 (b)	ii) Install	No	0		
1.16	EMCA	Nett amount for concrete cable slabs				
	18.1 (c)	i) Supply	No	0		
	18.2 (c)	ii) Install	No	0		
D	EMCA	EXCAVATION				
1.17	EMCA	Excavating, back filling, consolidation, importation of soil and dumping of all rock and stone removed during excavations including cleaning of cable routes all according to particular specification (including hand excavations where necessary along existing cable routes.				
	18.2 (i)	i) Soft / Pickable Soil: Hand Pickable, 0.6m deep x 0.45m wide sleeve trench.	m ³	44		

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
1.18	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m ³	9		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m ³	3		
	EMCA	Drilling for sleeves under road surfaces (6 m sleeves) (including excavation, drilling, sleeve, pipes and welding)				
	18.2 (j)	i) Drill 110mm dia. for road crossing (Soft)	m	0		
	18.2 (j)	ii) Drill 110mm dia. for road crossing (Intermediate)	m	0		
1.19	18.2 (i)	Sifted Material for backfill (smaller than 60mmdia)				
	i) Supply		m ³	12		
1.20	18.2 (i)	Imported Material (soft soil) for backfill				
	i) Supply		m ³	4		
1.21	EMCA	Danger tape: Orange/Yellow PVC material-300mm above cable				
	18.1 (h)	i) Supply	m	200		
	18.2 (h)	ii) Install	m	200		
E	ESPL	LV DISTRIBUTION BOARD AND KIOSK				
1.22	ESPL	AS-build drawings				
	12.1 (a)	Preparing and furnishing the "As built" drawings of complete electrical installation	sum	1		
	ESPL	LV-Kiosk, wall mounted as indicated on the drawings				
1.23	12.2 (a)	i) Supply	No	1		
	12.3 (a)	ii) Install	No	1		
	ESPL	Bore hole pump kiosk, mounted on plinth, with doors, complete with circuit breaker and accessories				
1.24	12.2 (a)	i) Supply	No	Elsewhere	N/A	N/A
	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
	ESPL	Labelling				
	12.4 (a)	Labelling of all LV-cables and DB-Board circuits and complete typed legend cards, complete to specification	Sum	1		
1.25	ESPL	Test and commission				
	12.4 (a)	Testing and commissioning the electrical installation complete and providing the C.O.C. for each DB / kiosk LV Kiosk	Sum	6		
TOTAL		SECTION NO. 4 : ELECTRICAL INSTALLATION	carried forward to final summary			

MAYIBONGWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		SECTION NO. 5 : PROVISIONAL SUMS				
		SUPPLEMENTARY PREAMBLES				
		General				
		Work for which budgetary allowances are provided will be measured and valued in accordance with the NEC3 Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.				
		GAS STOVE AND GAS INSTALLATION				
		The following provisional amounts are for work to be carried out by domestic sub-contractors:				
1		Provide the sum of R 110 000.00 (One Hundred and Ten Thousand Rand) for supply and installation of a gas stove including gas installation, fireboard, lockable gas cage, extraction fan, training, etc.	Item	1	R 110 000.00	R 110 000.00
2		Allow for profit	Item	1		
3		Allow for attendance	Item	1		
		TARGETED LABOUR ALLOWANCES				
4		Provide the sum of R 40 000.00 (Forty Thousand Rand) for the employment of a Community Liason Officer for the duration of the construction period.	Item	1	R 40 000.00	R 40 000.00
5		Allow for profit	Item	1		
6		Allow for attendance	Item	1		
		BUDGETARY ALLOWANCES				
7		Provide the sum of R 300 000.00 (Three Hundred Thousand Rand) for foundation beams.	Item	1	R 300 000.00	R 300 000.00
		MONETARY ALLOWANCES, ETC.				
		The following monetary provisions are to be omitted from the contract sum and used as directed below:				
8		Provide the sum of R 320 000 (Three Hundred and Twenty Thousand) for Contingencies, to be used as instructed by the Project Manager.	Item	1	R 320 000.00	R 320 000.00
TOTAL		SECTION NO. 5 : PROVISIONAL SUMS	carried forward to final summary			

MAYIBONGWE JUNIOR PRIMARY SCHOOL		
FINAL SUMMARY	PAGE	TOTAL
SECTION NO. 1 : PRELIMINARIES	35	R
SECTION NO. 2 : MODULAR STRUCTURES	37	R
SECTION NO. 3 : EXTERNAL WORKS	41	R
SECTION NO. 4 : ELECTRICAL INSTALLATION	44	R
SECTION NO. 5 : PROVISIONAL SUMS	45	R
SUB - TOTAL EXCLUDING VAT		R
ADD: 15% VALUE ADDED TAX		R
TOTAL INCLUDING 15% VAT		R

APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE, DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS (ALTERNATIVE BUILDING TECHNOLOGY) FOR 3 SCHOOLS IN THE EASTERN CAPE WITHIN THE ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI) 47 PROGRAMME ON BEHALF OF THE DEPARTMENT OF BASIC EDUCATION (DBE) – CLUSTER D2B

TENDER NO. RFP 305/2022
CLUSTER SUMMARY

A	JONGINTSIZI SENIOR PRIMARY SCHOOL	PAGE		TOTAL PER SCHOOL
	SECTION NO. 1 : PRELIMINARIES	5	R	
	SECTION NO. 2 : MODULAR STRUCTURES	7	R	
	SECTION NO. 3 : EXTERNAL WORKS	11	R	
	SECTION NO. 4 : ELECTRICAL INSTALLATION	14	R	
	SECTION NO. 5 : PROVISIONAL SUMS	15	R	
	SUB - TOTAL EXCLUDING VAT		R	
	ADD: 15% VALUE ADDED TAX		R	
	TOTAL INCLUDING 15% VAT		R	
C	LAMPTA JUNIOR PRIMARY SCHOOL	PAGE		TOTAL PER SCHOOL
	SECTION NO. 1 : PRELIMINARIES	20	R	
	SECTION NO. 2 : MODULAR STRUCTURES	22	R	
	SECTION NO. 3 : EXTERNAL WORKS	26	R	
	SECTION NO. 4 : ELECTRICAL INSTALLATION	29	R	
	SECTION NO. 5 : PROVISIONAL SUMS	30	R	
	SUB - TOTAL EXCLUDING VAT		R	
	ADD: 15% VALUE ADDED TAX		R	
	TOTAL INCLUDING 15% VAT		R	

APPOINTMENT OF A SERVICE PROVIDER TO MANUFACTURE, DELIVER AND COMMISSION RELOCATABLE MODULAR UNITS (ALTERNATIVE BUILDING TECHNOLOGY) FOR 3 SCHOOLS IN THE EASTERN CAPE WITHIN THE ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI) 47 PROGRAMME ON BEHALF OF THE DEPARTMENT OF BASIC EDUCATION (DBE) – CLUSTER D2B

TENDER NO. RFP 305/2022
CLUSTER SUMMARY

C	MAYIBONGWE JUNIOR PRIMARY SCHOOL	PAGE		TOTAL PER SCHOOL
	SECTION NO. 1 : PRELIMINARIES	35	R	
	SECTION NO. 2 : MODULAR STRUCTURES	37	R	
	SECTION NO. 3 : EXTERNAL WORKS	41	R	
	SECTION NO. 4 : ELECTRICAL INSTALLATION	44	R	
	SECTION NO. 5 : PROVISIONAL SUMS	45	R	
	SUB - TOTAL EXCLUDING VAT		R	
	ADD: 15% VALUE ADDED TAX		R	
	TOTAL INCLUDING 15% VAT		R	

	CLUSTER D2B SUMMARY		TOTAL PER SCHOOL
A	JONGINTSIZI SENIOR PRIMARY SCHOOL	R	
B	LAMPTA JUNIOR PRIMARY SCHOOL	R	
C	MAYIBONGWE JUNIOR PRIMARY SCHOOL	R	
	SUB - TOTAL EXCLUDING VAT	R	
	ADD: 15% VALUE ADDED TAX	R	
	TOTAL INCLUDING 15% VAT	R	