



**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 D2A**

**TENDER NO. RFP 304/2022**

**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 **MNYAKA JUNIOR  
SECONDARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

**TENDER NO. RFP 304/2022**

**C2.2: BILL OF QUANTITIES**

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b><u>SECTION 1 : PRELIMINARIES</u></b>				
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	<b>SABS 1200A</b>	<b><u>PRELIMINARIES</u></b>				
<b>1</b>	<b>8.3.1</b>	<b><u>Fixed Charge Items:</u></b>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
<b>1.3</b>	<b>8.3.2</b>	<b><u>Site Facilities:</u></b>				
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		
<b>1.4</b>		<b><u>Occupational Health and Safety Act:</u></b>  <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		

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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		
<b>1.5</b>		<b>Other Fixed-Charge Items:</b>				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
<b>2</b>		<b><u>Time Related Items:</u></b>				
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		
	<b>8.4.5</b>	<b><u>Other Time Related Charges:</u></b>				
<b>2.4</b>		<b>Environmental Management:</b>				
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		
<b>2.5</b>		<b>Occupational Health and Safety Act:</b>  <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>				

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2.5.1		Provision of full time Construction Health and Safety Officer (SACPCMP CHSO Registration) for the duration of the construction period.	Item	1		
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		<b>Targeted Labour:</b>				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		<b>Site Security:</b>				
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		<b>Other Costs:</b>				
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			

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>  <b>MODULAR STRUCTURES</b>  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 single Classroom unit, size 8.14m long x 7.06m wide complete with windows glazed with 6.3mm laminated safety glass, external door, 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 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, 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 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, 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		

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Item	Ref	Description	Unit	Quantity	Rate	Amount
6		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 and 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		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 doors 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		
8		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
<b>TOTAL</b>		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>	carried forward to final summary			

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<p><b>SECTION NO. 3 : EXTERNAL WORKS (PROVISIONAL)</b></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"> <li>- all floors and surface beds;</li> <li>- all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished;</li> <li>- 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.</li> </ul> <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>				



MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	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><b>EARTHWORKS</b></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>				

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<p>Testing of material and filling:</p> <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>CONCRETE BLOCK PAVING</p> <p>Block paving to be manufactured in accordance with SANS Specification 1058.</p> <p>Paving to be laid in accordance with SANS 1200MJ, SANS 1058 and the Concrete Manufacturers Association's Specification.</p> <p>Clean dry jointing sand complying with SANS 1200MJ is to be swept into joints between paving units.</p> <p>Paving to be installed with a minimum longitudinal fall of 1% and transverse fall of at least 2%.</p> <p>All block paving shall be inspected and resanded after three months</p> <p>REMOVAL OF EXISTING WORK, DEMOLITIONS, ETC.</p> <p>Breaking up and removing existing buildings, etc.</p>				
1		Carefully dismantle single story prefab classroom, size 8 x 8m on plan and set aside.	No	4		
2		Extra over last for carting away to a dumping site to be located by the contractor.	No	4		
3		<p>Saw cut through reinforced concrete at right angles</p> <p>100mm thick surface beds</p> <p>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</p>	m	17		

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
4		100mm thick surface beds	m <sup>2</sup>	25		
		PAVED ASSEMBLY AREAS, PARKING, ETC				
		Taking up concrete block paving and set aside for re-use in same or new position (re-use elsewhere measured):				
5		60mm Interlocking paving blocks	m <sup>2</sup>	360		
		Excavation of sandbed layer not exceeding 2m deep and stockpile fo re-use (elsewhere measured):				
6		Reduced levels under paving (lifting pavers e/m)	m <sup>3</sup>	72		
		Filling supplied by the contractor under assembly areas, walkways, etc.				
7		G7 filling compacted in layers of 150mm to 93% Mod AASHTO density	m <sup>3</sup>	54		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
8		Surplus material from excavations and/or stock piles to a dumping site to be located by the contractor.	m <sup>3</sup>	54		
		Compaction of surfaces:				
9		Compaction of ground surface under paving to assembly area, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m <sup>3</sup>	360		
		Prescribed density tests on filling:				
10		Modified AASHTO density test	No	6		
		60mm Standard grey interlocking concrete (25 MPa) paving blocks from stockpile (removal elsewhere measured) on and including 25mm thick river sand bed (from stockpile, excavation elsewhere measured) with dry filler sand swept and vibrated into joints, all laid on subgrade (subgrade elsewhere) conforming to SANS 1200MF degree of accuracy 1:				
11		Paving to assembly, parking areas, etc to falls	m <sup>2</sup>	360		
		CONCRETE WALKWAYS, APRONS, ETC				
		Excavations in earth not exceeding 2m deep:				
12		To reduce levels under aprons including edge beams	m <sup>3</sup>	38		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
13		Surplus material from excavations and/or stock piles to a dumping site to be located by the contractor.	m <sup>3</sup>	38		
		Compaction of surfaces:				
14		Compaction of ground surfaces under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, dding suitable material where necessary and compacting to 90% Mod AASHTO density	m <sup>2</sup>	333		

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
15		Inspection tests:  Excavation in earth not exceeding 0,5m <sup>3</sup> to expose existing foundations including preparing and issuing a photo report with measurements to the project manager, backfilling and compacting the excavation, etc.	No	10		
16		Prescribed density tests on filling:  Modified AASHTO density test	No	4		
17		Saw cut through concrete walkways at right angles  100mm thick surface beds	m	17		
18		Breaking up and removing reinforced concrete, including cutting off and removing reinforcement  100mm thick surface beds	m <sup>2</sup>	25		
19		25MPa/19mm Reinforced Concrete:  Surface beds, walkways, etc	m <sup>3</sup>	3		
20		Aprons to fall.	m <sup>3</sup>	34		
21		Edge beams.	m <sup>3</sup>	4		
22		Concrete Tests:  Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	no	3		
23		Schmidt hammer test including cleaning, preparation, testing and submission of a test report to the project manager.  Rough formwork (Degree of accuracy III):	no	10		
24		Edges, risers, ends and reveals not exceeding 300mm high or wide.  Finishing top surfaces of concrete smooth with a wood float:	m	282		
25		Surface beds, walkways, ramps, etc.	m <sup>2</sup>	25		
26		Surface beds to falls.	m <sup>2</sup>	333		
27		Fabric reinforcement:  Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	333		
28		Mesh Ref. No. 193 fabric reinforcement in concrete surface beds, slabs, etc.  Vertical construction joints through concrete including thick cement slurry to one face:	m <sup>2</sup>	25		
29		Surface beds not exceeding 300mm thick.  Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces	m	223		
30		10mm Joints not exceeding 300mm high.	m	271		

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Item	Ref	Description	Unit	Quantity	Rate	Amount
31		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:	m	319		
		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary				
32		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape	m²	277		
		Under surface beds, etc.				
TOTAL		SECTION NO. 3 : EXTERNAL WORKS	carried forward to final summary			

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Payment Ref	Description	Unit	Quantity	Rate	Amount
		<b>SECTION NO. 4 : ELECTRICAL INSTALLATION</b>				
1		<b>SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:</b>				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. <b>3067.10.GZA.07.UO24 SITE LV RETICULATION</b>  Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	<b>LV SUPPLY CABLE</b>				
		<b>Electrical Supply point</b> 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	<b><u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	180		
	18.2 (a)	ii) Install	m	180		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	12		
1.08	EMCA	<b><u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	80		
	18.2 (a)	ii) Install	m	80		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	4		

MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Payment Ref	Description	Unit	Quantity	Rate	Amount
<b>B</b>	<b>EMCA</b>	<b>EARTHING AND BONDING</b>				
		<u>All Earthing and bonding shall comply with the latest 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>				
1.10		<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 and washers	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		
<b>C</b>	<b>EMCA</b>	<b>CABLE ACCESSORIES</b>				
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	60		
	18.2 (g)	ii) Install	m	60		
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		
<b>D</b>	<b>EMCA</b>	<b>EXCAVATION</b>				
	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	22		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m³	5		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m³	2		
1.18	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		m³	5		
1.20	18.2 (i)	Imported Material (soft soil) for backfill				
	i) Supply		m³	2		
1.21	EMCA	Danger tape: Orange/Yellow PVC material-300mm above cable				
	18.1 (h)	i) Supply	m	150		
	18.2 (h)	ii) Install	m	150		

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



MNYAKA JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>				
		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.				
		<b>GAS STOVE AND GAS INSTALLATION</b>				
		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		
		<b>TARGETED LABOUR ALLOWANCES</b>				
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		
		<b>MONETARY ALLOWANCES, ETC.</b>				
		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 320 000.00	R 320 000.00
<b>TOTAL</b>		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>	<b>carried forward to final summary</b>			

MNYAKA JUNIOR SECONDARY SCHOOL		
FINAL SUMMARY	PAGE	TOTAL
SECTION NO. 1 : PRELIMINARIES	5	R
SECTION NO. 2 : MODULAR STRUCTURES	7	R
SECTION NO. 3 : EXTERNAL WORKS	13	R
SECTION NO. 4 : ELECTRICAL INSTALLATION	16	R
SECTION NO. 5 : PROVISIONAL SUMS	17	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 **NGWEYESIZWE  
JUNIOR PRIMARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

**TENDER NO. RFP 304/2022**

**C2.2: BILL OF QUANTITIES**

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b><u>SECTION 1 : PRELIMINARIES</u></b>				
	<b>SABS 1200A</b>	<b><u>PRELIMINARIES</u></b>				
<b>1</b>	<b>8.3.1</b>	<b><u>Fixed Charge Items:</u></b>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
<b>1.3</b>	<b>8.3.2</b>	<b><u>Site Facilities:</u></b>				
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		
<b>1.4</b>		<b><u>Occupational Health and Safety Act:</u></b>  <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		
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
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		
<b>1.5</b>		<b>Other Fixed-Charge Items:</b>				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
<b>2</b>		<b><u>Time Related Items:</u></b>				
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		
	<b>8.4.5</b>	<b><u>Other Time Related Charges:</u></b>				
<b>2.4</b>		<b>Environmental Management:</b>				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMAs).	Item	1		
<b>2.5</b>		<b>Occupational Health and Safety Act:</b>  <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		

NGWEYESIZWE 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		<b>Targeted Labour:</b>				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		<b>Site Security:</b>				
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		<b>Other Costs:</b>				
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		
<b>SECTION NO 1: PRELIMINARIES</b>			<b>carried forward to final summary</b>			

**NGWEYESIZWE JUNIOR PRIMARY SCHOOL**

Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>				
		<b>MODULAR STRUCTURES</b>				
		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 steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified. See drawing Annexure "B".	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 steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified. See drawing Annexure "D".	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 steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified. See drawing Annexure "E"&"F".	No	1		

NGWEYESIZWE 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 steps, ramps, vinyl floor tiles, white boards, pinning boards, teacher's cupboard, including fascias, gutters and downpipes and all electrical installations all as specified. See drawing Annexure "G"&"H".	No	1		
7		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
<b>TOTAL</b>		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>	carried forward to final summary			



NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p><b>SECTION NO. 3 : EXTERNAL WORKS (PROVISIONAL)</b></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"> <li>- all floors and surface beds;</li> <li>- all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished;</li> <li>- 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.</li> </ul> <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>				

**NGWEYESIZWE 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><b>EARTHWORKS</b></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>				

**NGWEYESIZWE 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>REMOVAL OF EXISTING WORK, DEMOLITIONS, ETC.</p> <p>Saw cut through reinforced concrete at right angles:</p>				
1		100mm thick surface beds	m	12		
		Breaking up and removing reinforced concrete, including cutting off and removing reinforcement				
2		100mm thick surface beds	m <sup>2</sup>	15		
		Excavations in earth not exceeding 2m deep:				
3		To reduce levels under aprons including edge beams	m <sup>3</sup>	32		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
4		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	32		
		Compaction of surfaces:				
5		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 <sup>2</sup>	277		

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
6		Inspection tests:  Excavation in earth not exceeding 0,5m <sup>3</sup> 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		
7		Prescribed density tests on filling:  Modified AASHTO density test	No	4		
8		25MPa/19mm Reinforced Concrete:  Surface beds, walkways, etc	m <sup>3</sup>	2		
9		Aprons to fall.	m <sup>3</sup>	28		
10		Edge beams.	m <sup>3</sup>	4		
11		Concrete Tests:  Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	no	3		
12		Schmidt hammer test including cleaning, preparation, testing and submission of a test report to the project manager.	no	8		
13		Rough formwork (Degree of accuracy III):  Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	229		
14		Fabric reinforcement:  Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	277		
15		Mesh Ref. No. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	15		
16		Finishing top surfaces of concrete smooth with a wood float:  Surface beds to falls.	m <sup>2</sup>	277		
17		Vertical construction joints through concrete including thick cement slurry to one face:  Surface beds not exceeding 300mm thick.	m	185		
18		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces  10mm Joints not exceeding 300mm high.	m	325		
19		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:  10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape	m	373		
20		Under surface beds, etc.	m <sup>2</sup>	277		
<b>TOTAL</b>		<b>SECTION NO. 3 : EXTERNAL WORKS</b>	<b>carried forward to final summary</b>			

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 4 : ELECTRICAL INSTALLATION</b>				
1		<b>SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:</b>				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. <b>3067.10.GZA.07.U027 SITE LV RETICULATION</b>  Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	<b>LV SUPPLY CABLE</b>				
		<b>Electrical Supply point</b> 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	<b><u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	160		
	18.2 (a)	ii) Install	m	160		
	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	<b><u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	50		
	18.2 (a)	ii) Install	m	50		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	0		

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
<b>B</b>	<b>EMCA</b>	<b>EARTHING AND BONDING</b>				
		<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>16mm<sup>2</sup> insulated earth wire</u> i) Supply ii) Install iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and washers	m m ea	150 150 40		
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		
<b>C</b>	<b>EMCA</b>	<b>CABLE ACCESSORIES</b>				
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	60		
	18.2 (g)	ii) Install	m	60		
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		
<b>D</b>	<b>EMCA</b>	<b>EXCAVATION</b>				
	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.	m <sup>3</sup>	24		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m <sup>3</sup>	0		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m <sup>3</sup>	0		
1.18	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 60mm dia)				
	i) Supply		m <sup>3</sup>	0		
1.20	18.2 (i)	Imported Material (soft soil) for backfill				

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
1.21	EMCA	i) Supply Danger tape: Orange/Yellow PVC material-300mm above cable	m <sup>3</sup>	0		
	18.1 (h)	i) Supply	m	160		
	18.2 (h)	ii) Install	m	160		
<b>E</b>	<b>ESPL</b>	<b>LV DISTRIBUTION BOARD AND KIOSK</b>				
1.22	ESPL 12.1 (a)	<b>AS-build drawings</b> 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		
	12.3 (a)	ii) Install	No	1		
1.23	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
	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
1.24	ESPL 12.4 (a)	<b>Labelling</b> 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)	<b>Test and commission</b> Testing and commissioning the electrical installation complete and providing the C.O.C. for each DB / kiosk LV Kiosk	Sum	1		
<b>TOTAL</b>		<b>SECTION NO. 4 : ELECTRICAL INSTALLATION</b>	<b>carried forward to final summary</b>			

NGWEYESIZWE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>				
		<b>BILL NO. 1 : PROVISIONAL SUMS</b>				
		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.				
		<b>GAS STOVE AND GAS INSTALLATION</b>				
		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		
		<b>TARGETED LABOUR ALLOWANCES</b>				
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		
		<b>MONETARY ALLOWANCES, ETC.</b>				
		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 320 000.00	R 320 000.00
<b>TOTAL</b>		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>	carried forward to final summary			



NGWEYESIZWE JUNIOR PRIMARY SCHOOL			
FINAL SUMMARY	PAGE		TOTAL
SECTION NO. 1 : PRELIMINARIES	22	R	
SECTION NO. 2 : MODULAR STRUCTURES	24	R	
SECTION NO. 3 : EXTERNAL WORKS	28	R	
SECTION NO. 4 : ELECTRICAL INSTALLATION	31	R	
SECTION NO. 5 : PROVISIONAL SUMS	32	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 **QHAMILE  
JUNIOR PRIMARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

**TENDER NO. RFP 304/2022**

**C2.2: BILL OF QUANTITIES**

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b><u>SECTION 1 : PRELIMINARIES</u></b>				
	<b>SABS 1200A</b>	<b><u>PRELIMINARIES</u></b>				
<b>1</b>	<b>8.3.1</b>	<b><u>Fixed Charge Items:</u></b>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
<b>1.3</b>	<b>8.3.2</b>	<b><u>Site Facilities:</u></b>				
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		
<b>1.4</b>		<b><u>Occupational Health and Safety Act:</u></b>  <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		
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		

QHAMILE JUNIOR PRIMARY SCHOOL						
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		
<b>1.5</b>		<b>Other Fixed-Charge Items:</b>				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
<b>2</b>		<b><u>Time Related Items:</u></b>				
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		
	<b>8.4.5</b>	<b><u>Other Time Related Charges:</u></b>				
<b>2.4</b>		<b>Environmental Management:</b>				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMAs).	Item	1		
<b>2.5</b>		<b>Occupational Health and Safety Act:</b>  <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		

QHAMILE 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		<b>Targeted Labour:</b>				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		<b>Site Security:</b>				
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		<b>Other Costs:</b>				
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		
<b>SECTION NO 1: PRELIMINARIES</b>			<b>carried forward to final summary</b>			

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>  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 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 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	2		
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 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		
<b>TOTAL</b>		<b>SECTION NO. 2 : MODULAR STRUCTURES</b>	<b>carried forward to final summary</b>			

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p><b>SECTION NO. 3 : EXTERNAL WORKS (PROVISIONAL)</b></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"> <li>- all floors and surface beds;</li> <li>- all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished;</li> <li>- 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.</li> </ul> <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>				

QHAMILE 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><b>EARTHWORKS</b></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>				



QHAMILE 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>REMOVAL OF EXISTING WORK, DEMOLITIONS, ETC.</p> <p>Saw cut through reinforced concrete at right angles:</p>				
1		100mm thick surface beds	m	17		
		Breaking up and removing reinforced concrete, including cutting off and removing reinforcement				
2		100mm thick surface beds	m <sup>2</sup>	25		
		CONCRETE WALKWAYS, APRONS, ETC				
		Excavations in earth not exceeding 2m deep:				
3		To reduce levels under aprons including beams	m <sup>3</sup>	29		
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
4		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	29		
		Compaction of surfaces:				

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
5		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 <sup>2</sup>	259		
		Inspection tests:				
6		Excavation in earth not exceeding 0,5m <sup>3</sup> 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:				
7		Modified AASHTO density test	No	4		
		25MPa/19mm Reinforced Concrete:				
8		Surface beds, walkways, etc	m <sup>3</sup>	3		
9		Aprons to fall.	m <sup>3</sup>	26		
10		Edge beams.	m <sup>3</sup>	3		
		Concrete Tests:				
11		Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	5		
12		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):				
13		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	227		
		Fabric reinforcement:				
14		Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	259		
15		New mesh Ref. No. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	25		
		Finishing top surfaces of concrete smooth with a wood float:				
16		Surface beds to falls.	m <sup>2</sup>	259		
		ROUGH FORMWORK (DEGREE OF ACCURACY III)				
		Smooth Formwork to Sides:				
17		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	197		
		MOVEMENT JOINTS ETC				
		Vertical construction joints through concrete including thick cement slurry to one face:				
18		Surface beds not exceeding 300mm thick.	m	174		
		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces				
19		10mm Joints not exceeding 300mm high.	m	222		

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
20		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:				
		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary	m	270		
		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape				
21		Under surface beds, etc.	m <sup>2</sup>	259		
<b>TOTAL</b>		<b>SECTION NO. 3 : EXTERNAL WORKS</b>	<b>carried forward to final summary</b>			

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 4 : ELECTRICAL INSTALLATION</b>				
1		<b>SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:</b>				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. <b>3067.10.GZA.07.U020 Site LV Reticulation</b>  Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	<b>LV SUPPLY CABLE</b>				
		<b>Electrical Supply point</b> 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	<b><u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	120		
	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	10		
1.08	EMCA	<b><u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	70		
	18.2 (a)	ii) Install	m	70		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	6		

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
<b>B</b>	<b>EMCA</b>	<b>EARTHING AND BONDING</b>				
		<u>All Earthing and bonding shall comply with the latest 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>				
1.10		<u>16mm<sup>2</sup> insulated earth wire</u>				
		i) Supply	m	250		
		ii) Install	m	250		
		iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and washers	ea	24		
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	16		
		ii) Install	ea	16		
<b>C</b>	<b>EMCA</b>	<b>CABLE ACCESSORIES</b>				
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	66		
	18.2 (g)	ii) Install	m	66		
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		
<b>D</b>	<b>EMCA</b>	<b>EXCAVATION</b>				
	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.	m <sup>3</sup>	46		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m <sup>3</sup>	8		
	18.2 (i)	iii) Hard rock 0.6mm deep x 0.45mm wide sleeve trench.	m <sup>3</sup>	4		
1.18	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 <sup>3</sup>	20		
1.20	18.2 (i)	Imported Material (soft soil) for backfill				
	i) Supply		m <sup>3</sup>	12		
1.21	EMCA	Danger tape: Orange/Yellow PVC material-300mm above cable				
	18.1 (h)	i) Supply	m	120		
	18.2 (h)	ii) Install	m	120		

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
E	ESPL	LV DISTRIBUTION BOARD AND KIOSK				
	ESPL	<b>AS-build drawings</b>				
	12.1 (a)	Preparing and furnishing the "As built" drawings of complete electrical installation	sum	1		
1.22	ESPL	LV-Kiosk, wall mounted as indicated on the drawings				
	12.2 (a)	i) Supply	No	1		
	12.3 (a)	ii) Install	No	1		
1.23	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
	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
1.24	ESPL	<b>Labelling</b>				
	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	<b>Test and commission</b>				
	12.4 (a)	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			

QHAMILE JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>  <b>SUPPLEMENTARY PREAMBLES</b>  <b>General</b>  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.  <b>GAS STOVE AND GAS INSTALLATION</b>  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  <b>TARGETED LABOUR ALLOWANCES</b>  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  <b>MONETARY ALLOWANCES, ETC.</b>  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
<b>TOTAL</b>		<b>SECTION NO. 5 : PROVISIONAL SUMS</b>	<b>carried forward to final summary</b>			

QHAMILE JUNIOR PRIMARY SCHOOL			
	FINAL SUMMARY	PAGE	TOTAL
	SECTION NO. 1 : PRELIMINARIES	37	R
	SECTION NO. 2 : MODULAR STRUCTURES	38	R
	SECTION NO. 3 : EXTERNAL WORKS	43	R
	SECTION NO. 4 : ELECTRICAL INSTALLATION	46	R
	SECTION NO. 5 : PROVISIONAL SUMS	47	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 **VUYOLWETHU  
JUNIOR PRIMARY SCHOOL** IN THE EASTERN CAPE PROVINCE**

**TENDER NO. RFP 304/2022**

**C2.2: BILL OF QUANTITIES**

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b><u>SECTION 1 : PRELIMINARIES</u></b>				
	<b>SABS 1200A</b>	<b><u>PRELIMINARIES</u></b>				
<b>1</b>	<b>8.3.1</b>	<b><u>Fixed Charge Items:</u></b>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
<b>1.3</b>	<b>8.3.2</b>	<b><u>Site Facilities:</u></b>				
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		
<b>1.4</b>		<b><u>Occupational Health and Safety Act:</u></b>  <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		
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
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		
<b>1.5</b>		<b>Other Fixed-Charge Items:</b>				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
<b>2</b>		<b><u>Time Related Items:</u></b>				
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		
	<b>8.4.5</b>	<b><u>Other Time Related Charges:</u></b>				
<b>2.4</b>		<b>Environmental Management:</b>				
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		
<b>2.5</b>		<b>Occupational Health and Safety Act:</b>  <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		

VUYOLWETHU 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		<b>Targeted Labour:</b>				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		<b>Site Security:</b>				
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		<b>Other Costs:</b>				
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		
<b>SECTION NO 1: PRELIMINARIES</b>			<b>carried forward to final summary</b>		<b>R</b>	<b>-</b>

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>  <b>BILL NO. 1 : ROOF COVERINGS</b>  <b>SUPPLEMENTARY PREAMBLES</b>  Roof coverings:  The roof sheeting system is to be installed in strict accordance with the Manufacturer's and/or Supplier's specifications.  Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved instruction book.  The Manufacturer shall comply with ISO9002 Quality Management System.  A written and approved five year guarantee of the site workmanship and watertightness shall be issued after final inspection of the roofing by the Manufacturer.  <b><u>STEEL ROOF SHEETING AND ACCESSORIES</u></b>  0,47mm thick AZ150 Colourplus Widespan Sheeting fixed to AL/zinc Tophat purlins as per Engineer's specification:				
1		Roof covering with pitch not exceeding 10 degrees, in transportable lengths not exceeding 20m.	m <sup>2</sup>	397.00		
2		Ridge 460mm girth with minimum 230mm laps, fixed to roof sheeting.	m	38.00		
3		470mm girth Barge flashing.	m	62		
4		Narrow flute moulded polyethylene eaves filler blocks to suit profile	m	77		
		<b><u>ROOF INSULATION</u></b>				
5		Radenshield Climasential Aluminium Radiant Barrier with extra tear- strength fixed using 12x65mm sheet fixing screws.	m <sup>2</sup>	397		
6		Aerolite 135mm Flexible Fibreglass wool doubl sided fire retardent heavy industrial grade reinforced aluminium foil insulation sheeting	m <sup>2</sup>	397		
<b>TOTAL</b>		<b>BILL NO. 1 : ROOF COVERINGS</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>  <b>BILL NO. 2 : CARPENTRY AND JOINERY</b>  <b>SUPPLEMENTARY PREAMBLES</b>  Joinery:  Descriptions of hardwood joinery shall be deemed to include punching nail heads and filling with matching wood filler and sinking and pelleting heads and nuts of bolts.  Fixing:  Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.				

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres.</p> <p>Fire doors:</p> <p>Fire doors are to be in accordance with SANS 1253.</p> <p>Prefabricated roof trusses:</p> <p>Prefabricated trusses shall be fabricated in a factory that has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principle Agent.</p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of practice for Design of Timber Structures.</p> <p>The complete structure shall be inspected by the truss designer to ensure that the manufacture and erection details have been complied with.</p> <p><b>EAVES, VERGES, ETC</b></p> <p>Medium density fibre cement fascia and barge boards:</p>				
1		12 x 225mm Fascia boards fixed to roof timbers with brass screws and 38 x 50 x 114mm softwood blocking pieces including 'Chromaprep' or equal and approved fascia joiners.	m	77.00		
2		80 x 200mm Moulded barge board, butt jointed with 'Chromaprep' or equal and approved H-profile joiners, screwed on.	m	63.00		
		<b><u>DOORS ETC</u></b>				
		Wrought hardwood doors:				
3		40mm Solid Meranti hardwood Framed batten door 813 x 2032mm high of 44 x 107mm top rail and stiles, 22 x 107 middle ledge, braces and bottom rail filled in flush with 22mm V-jointed one side boarding.	No	3.00		
4		813 x 2032mm high Hollow core flush panel internal door	No	5.00		
		<b><u>JOINERY SUNDRIES</u></b>				
		Wrought Meranti				
5		19 x 70mm Skirting including quadrant bead nailed on	m	138.00		
6		19 x 100mm Dado rail	m	138.00		
7		380 x 180 x 22mm Fire Extinguisher backing board with 4 x 5mm chamfer around exposed edges	No	4.00		
<b>TOTAL</b>		<b>BILL NO. 2 : CARPENTRY AND JOINERY</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>				
		<b>BILL NO.3 : CEILINGS PARTITIONS AND ACCESS FLOORING</b>				
		<b>SUPPLEMENTARY PREAMBLES</b>				
		Fixing:				

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as bolted the bolts have been measured elsewhere.</p> <p>Ceilings:</p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p>Steel components:</p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.</p> <p>Openings in nailed-up ceilings:</p> <p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc.</p> <p>General:</p> <p>Only specialist ceiling and partition subcontractors approved by the Manufacturer of the materials shall be allowed to execute the work. Ceiling boards shall be arranged symmetrically about the room, with cut boards along walls and straight joints in both directions.</p> <p>NAILED UP AND SCREW UP CEILINGS</p> <p>9mm Rhino-board plain ceiling boards with 6 x 32mm wrought meranti coverstrips over joints:</p>				
1		Ceilings including 38 x 50 sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings.	m²	220.00		
2		Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander covered with ceiling board and fitted flush in opening, including trimmers around.	No	3.00		
3		Moulded polystyrene cornices:				
4		75mm Coved cornice.	m	141.00		
5		<p>Non-combustible polyester thermal insulation of a density of not less than 10kg/ m3:</p> <p>100mm Insulation in blanket form closely fitted and laid on top of brandering between roof timbers etc.</p>	m²	220.00		
<b>TOTAL</b>		<b>BILL NO. 3 : CEILINGS AND PARTITONS</b>	carried to section summary			
		<p><b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b></p> <p><b>BILL NO.4 : FLOOR COVERINGS</b></p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p>Fixing:</p> <p>Floor coverings, wall linings, etc shall be fixed and installed in accordance with the manufacturer's instructions.</p>				

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
1		<b><u>FLOOR COVERINGS</u></b> 300 x 300 x 2,5mm Thick 'Polyflex Plus PU' semi-flexible vinyl floor tiles or equal and approved product fixed with approved water based acrylic adhesive:	m²	220.00		
2		<b><u>POLISH, SEALERS, ETC</u></b> Polish, sealers, etc: Three coats wax polish on vinyl flooring.	m²	220.00		
<b>TOTAL</b>		<b>BILL NO. 4 : FLOOR COVERINGS</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b> <b>SUPPLEMENTARY PREAMBLES</b> Finishes to ironmongery:  Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.  Descriptions:  Descriptions of ironmongery shall be deemed to include for fixing to wood, aluminium and steel.				
		<b><u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC</u></b>				
1		38mm Brass hinge.	No	21.00		
2		38mm Diameter rubber door stop.	No	5.00		
		<b><u>LOCKS</u></b>				
3		Approved Two Lever Mortice Lock set SKU UNN1201 with chrome finish	No	3.00		
4		Approved Three lever Mortice lockset SKU ESC1303 with chrome finish	No	5.00		
		<b><u>PINNING BOARDS, WRITING BOARDS, ETC</u></b> Carpet type pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction:				
5		Pinning board size 2400 x 1200mm high plugged.	No	9.00		
6		Vitrex' or equal and approved: System 1000 standard vitreous enamelled steel wall mounted school chalkboard 2400 x 1140mm high (ref 1009) complete with chalkrail and fixing components, plugged.	No	12.00		
		<b><u>SIGNAGE</u></b>				



VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
7		Approved engraved grde 304 Stainless steel fire sign size 150 x 150 x 1,2mm with "Fire Extinguisher" pictogram engraving with counter sunk sunk fixing holes plugged and screwed with 3mm diameter stainless steel screws	No	6.00		
8		Approved engraved grde 304 Stainless steel sign with "Arrow pointing down" pictogram engraving with counter sunk sunk fixing holes plugged and screwed with 3mm diameter stainless steel screws  <u>50mm high approved non-reflective self adhesive material, all in accordance with SANS 1519, colour black "ARIAL" bold font in capital letters or numerals fitted to stainless steel plates</u>	No	6.00		
9		One letter or numeral	No	1.00		
10		Two letters or numerals	No	1.00		
11		Three letters or numerals	No	1.00		
12		Four letters or numerals	No	1.00		
13		Five letters or numerals	No	1.00		
14		Six letters or numerals	No	1.00		
<b>TOTAL</b>		<b>BILL NO.5 : IRONMONGERY</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>  <b>BILL NO.6 : METALWORK</b>  <b>SUPPLEMENTARY PREAMBLES</b>  Descriptions:  Descriptions of bolts shall be deemed to include nuts and washers.  Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.  Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described.  Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres.  <b><u>GALVANIZED STEEL DOOR FRAMES</u></b>  1,2mm Double rebated frames suitable for 150mm concrete walls:  1 Frame for door 813 x 2032mm high.  <b><u>ALUMINIUM</u></b>  "Swartland Kenzo" powder coated windows etc. glazed with 6,3mm laminated safety glass including ironmongery, sealing with Butterfly rubber seals, and fixing to concrete wall.  2 900 x 900mm vertical multi- sash window  3 Extra over last for epoxy powder coated steel burglar screens bolted to concrete wall with expansion anchors.				
			No	8.00		
			No	27.00		
			No	27.00		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
<b>TOTAL</b>		<b>BILL NO.6 : METALWORK</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>				
		<b>BILL NO.7 : PLASTERING</b>				
		<b>SUPPLEMENTARY PREAMBLES</b>				
		<b>Preparation of surfaces for plaster</b> Mortar joints to brickwork shall be rake to take plaster. Concrete surfaces shall be well wetted, wire brushed and slushed over with : cement grout which must be allowed to set hard before plaster is applied				
		<b><u>SCREEDS</u></b>				
		4:1 Cement plaster screeds on concrete:				
1		Average 30mm thick.	m <sup>2</sup>	220.00		
		<b><u>INTERNAL PLASTER</u></b>				
2		4:1 Cement plaster on brickwork:	m <sup>2</sup>	372.00		
3		On narrow widths not exceeding 300mm wide.	m <sup>2</sup>	8.00		
		<b><u>EXTERNAL PLASTER</u></b>				
4		4:1 Cement plaster on brickwork:	m <sup>2</sup>	356.00		
5		On narrow widths not exceeding 300mm wide.	m <sup>2</sup>	7.00		
<b>TOTAL</b>		<b>BILL NO.7 : PLASTERING</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL) (PROVISIONAL)</b>				
		<b>BILL NO.8 : PLUMBING AND DRAINAGE</b>				
		<b>SUPPLEMENTARY PREAMBLES</b>				
		Fixing of pipes:				
		Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level.				
		<b><u>RAINWATER DISPOSAL</u></b>				
		0,80mm thick powder coated prepainted Al/Zinc AL150 gutters and downpipes				
1		125 x 150 x 125mm pre-painted Al/Zinc or similar approved eaves gutter	m	77.00		
2		Extra over eaves gutter for stopped end.	No	12.00		
3		Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	12.00		
4		75mm Diameter powder coated pre-painted rainwater pipes fixed to wall with and including uPVC pipe clips at 1000mm centres.	m	45.00		
5		Extra over downpipes for leaf filter	No	12.00		
6		Extra over rainwater pipes for bend.	No	12.00		
7		Extra over rainwater pipes for swan neck ends.	Pairs	12.00		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
8		Extra over rainwater pipes for shoe.	No	12.00		
		<b><u>SANITARY FITTINGS</u></b>				
		<b><u>Vaal'</u></b>				
9		435 x 335mm Lab Sink (Code 234500) without overflow, fitted in cupboard (cupboard elsewhere) with and including acid resisitant waste fitting with rubber plug (Code 8790Z0) and two adjustable underslung brackets (code 8109Z0)	No	5.00		
10		Approved virtreous china 'Hidiscus' wall hung basin colour white overall size 510 x 405mm with two tap holes, including intergrated overflow, bolted to wall	No	1.00		
11		900 x 455 x 235mm Stainless steel double sink with overflow, fitted in cupboard (cupboard elsewhere) with and including acid resisitant waste fitting with rubber plug (Code 8790Z0) and two adjustable underslung brackets (code 8109Z0)	No	3.00		
		<b><u>Franke' grade 304 (18/10) stainless steel:</u></b>				
12		Quinline' QLX611 overall size 900 x 500mm stainless steel kitchen sink	No	1.00		
		<b><u>TRAPS ETC.</u></b>				
		<b><u>uPVC</u></b>				
13		Franke spazio f/2 plumbing kit for double sink	No	5.00		
		<b><u>Vulcathene traps, etc</u></b>				
14		Anti siphon bottle trap Code W561	No	4.00		
		<b><u>Cobra</u></b>				
15		32mm chromium plated push open basin waste set	No	1.00		
		<b><u>TAPS. VALVES</u></b>				
16		15mm 'Plumline' CXC mini ball valve	No	10.00		
		<b><u>Cobra</u></b>				
17		15mm 'Star' Chrome plated code 266/041/10 star wall type sink mixer with overarm swivel outlet and adjustable wall flanges	No	9.00		
18		15mm Chrome plated code 113-15 'Star' hi-waist pillar tap	No	2.00		
19		15mm Stainless steel braided flexible hose 400mm long	No	18.00		
		<b><u>FIRE APPLIANCES</u></b>				
20		Standard 4,5kg Dry chemical powder fire extinguisher with bracket fixed to wood	No	4.00		
<b>TOTAL</b>		<b>BILL NO.8 : PLUMBING AND DRAINAGE</b>	carried to section summary			
		<b>SECTION NO. 2: BUILDING WORKS (PROVISIONAL)</b>				
		<b>BILL NO.9 : PAINTWORK</b>				
		SUPPLEMENTARY PREAMBLES				

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<p>General:</p> <p>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p> <p>Primers and first coats may be thinned in accordance with the paint specifications of the paint manufacturer to aid the absorption of the paint.</p> <p>All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally and 3% for slabs/screeds, etc.</p> <p><b><u>PAINTWORK ETC TO NEW WORK</u></b></p> <p><b><u>ON FLOATED PLASTERED SURFACES</u></b></p> <p><b><u>Prepare and paint surfaces and apply one coat 'Plascon Professional Alkali Resistant Plaster Primer' and two coats 'Plascon Professional Super Sheen'</u></b></p>				
1		On internal walls.	m <sup>2</sup>	372.00		
2		<p>In narrow widths</p> <p><b><u>Prepare and paint surfaces and apply one coat 'Plascon Professional Alkali Resistant Plaster Primer' and two coats 'Plascon Professional Super Sheen'</u></b></p>	m <sup>2</sup>	2.00		
3		On external walls.	m <sup>2</sup>	356.00		
4		<p>In narrow widths</p> <p><b><u>ON FIBRE CEMENT</u></b></p> <p><b><u>Prepare surfaces and apply one coat 'Plascon Professional Gypsum Sealer' and two coats 'High cover PVA' paint:</u></b></p>	m <sup>2</sup>	7.00		
5		<p>On ceilings</p> <p><b><u>Prepare surfaces and apply one coat "Plascon Professional Gypsum and Plaster Primer" and two coats 'Plascon Wall &amp; All' pure acrylic paint:</u></b></p>	m <sup>2</sup>	220.00		
6		<p>On fascias and barge boards not exceeding 300 mm girth.</p> <p><b><u>ON WOOD</u></b></p> <p><b><u>Prepare surfaces and apply one coat primer and 2 coats "High Gloss enamel"</u></b></p>	m <sup>2</sup>	139.00		
7		<p>On internal doors.</p> <p><b><u>Prepare surfaces and apply three coats 'Woodtreat Woodseal'</u></b></p>	m <sup>2</sup>	11.00		
8		<p>On external doors.</p> <p><b><u>Prepare surfaces and apply one coat "Plascon Professional Wood primer"</u></b></p>	m <sup>2</sup>	18.00		
9		<p>On cornices.</p> <p><b><u>Prepare surfaces and apply three coats Plascon Woodcare Water Based Interior Varnish</u></b></p>	m	141.00		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
10		On backing boards, coat hook rails, etc not exceeding 300mm girth.  <u>Prepare surfaces and apply Nova 18 Novadye wood stain and three coats 'Woodoc 20' clear polyutherane sealer:</u>	m	1.00		
11		On skirtings, rails, sills etc.  <u>ON METAL</u>  <u>Prepare surfaces and apply two coats High Cover PVA</u>	m	276.00		
12		Door frames.	m	40.00		
<b>TOTAL</b>		<b>BILL NO.9 : PAINTWORK</b>	carried to section summary			
<b>SECTION 2 : BUILDING WORKS SUMMARY</b>						<b>TOTAL</b>
BILL NO. 1 : ROOF COVERINGS BILL NO. 2 : CARPENTRY AND JOINERY BILL NO. 3 : CEILINGS AND PARTITONS BILL NO. 4 : FLOOR COVERINGS BILL NO.5 : IRONMONGERY BILL NO.6 : METALWORK BILL NO.7 : PLASTERING BILL NO.8 : PLUMBING AND DRAINAGE BILL NO.9 : PAINTWORK						R R R R R R R R R
<b>TOTAL SECTION 2 : BUILDING WORKS</b>						carried forward to final summary

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 3 : MODULAR STRUCTURES</b>  <b>MODULAR STRUCTURES</b>  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		
3		Design, supply, erect and commission the following modular structures:  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 doors with security gates and 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		Extra over last for supply and installation of 100 liter direct solar geyser	No	1		
<b>TOTAL</b>		<b>SECTION NO. 3 : MODULAR STRUCTURES</b>	<b>carried forward to final summary</b>			

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<p><b>SECTION NO. 4 : EXTERNAL WORKS (PROVISIONAL)</b></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"> <li>- all floors and surface beds;</li> <li>- all extent screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished;</li> <li>- 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.</li> </ul> <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>				

VUYOLWETHU 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><b>EARTHWORKS</b></p> <p>Nature of ground: 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. 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>				



VUYOLWETHU 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>REMOVAL OF EXISTING WORK, DEMOLITIONS, ETC.</p> <p>Breaking up and removing existing buildings, temporary structures, etc.</p>				
1		Carefully dismantle single story prefab classroom, size 8 x 8m on plan and set aside.	No	4		
2		Extra over last for carting away to a dumping site to be located by the contractor.	No	4		
3		<p>Saw cut through concrete at right angles:</p> <p>100mm thick reinforced concrete surface beds</p>	m	17		
4		<p>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</p> <p>100mm thick surface beds</p> <p>CONCRETE WALKWAYS, APRONS, ETC</p>	m <sup>2</sup>	25		
5		<p>Excavations in earth not exceeding 2m deep:</p> <p>To reduce levels under aprons including edge beams</p>	m <sup>3</sup>	32		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		Extra over all excavations for carting away (no allowance made for increase in bulk):				
6		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	32		
		Compaction of surfaces:				
7		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 <sup>2</sup>	277		
		Inspection tests:				
8		Excavation in earth not exceeding 0,5m <sup>3</sup> to expose existing foundations including preparing and issuing a photo report with measurements to the project manager, backfilling and compacting the excavation, etc.	No	2		
		Prescribed density tests on filling:				
9		Modified AASHTO density test	No	4		
		25MPa/19mm Reinforced Concrete:				
10		Surface beds, walkways, etc	m <sup>3</sup>	3		
11		Aprons to fall.	m <sup>3</sup>	28		
12		Edge beams.	m <sup>3</sup>	4		
		Concrete Tests:				
13		Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	no	3		
14		Schmidt hammer test including cleaning, preparation, testing and submission of a test report to the project manager.	no	10		
		Rough formwork (Degree of accuracy III):				
15		Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	239		
		Finishing top surfaces of concrete smooth with a wood float:				
16		Surface beds to falls.	m <sup>2</sup>	277		
		Fabric reinforcement:				
17		Mesh Ref. No. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	277		
18		New mesh Ref. No. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	25		
		Vertical construction joints through concrete including thick cement slurry to one face:				
19		Surface beds not exceeding 300mm thick.	m	185		
		Expansion joints with 'Jointex' closed cell expanded polyethylene joint filler between vertical concrete surfaces				
20		10mm Joints not exceeding 300mm high.	m	233		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
21		Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:				
		10 x 10mm In vertical expansion joints between concrete surfaces, including raking out expansion joint filler as necessary	m	281		
22		One layer 250 micron waterproof sheeting sealed at laps with PVC self-adhesive tape				
		Under surface beds, etc.	m <sup>2</sup>	277		
<b>TOTAL</b>		<b>SECTION NO. 4 : EXTERNAL WORKS</b>	<b>carried forward to final summary</b>			

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 5 : ELECTRICAL INSTALLATION</b>				
1		<b>SCHEDULE FOR ELECTRICAL SITE RETICULATION INSTALLATION:</b>				
		As per the General Electrical Specification Electrical installation shall comply with SANS 10142 (latest addition) and the specification and electrical layout drawings. <b>3067.10.GZA.07.U020 Site LV Reticulation</b>  Rates shall be inclusive of all profit and preliminaries.				
A	EMCA	<b>LV SUPPLY CABLE</b>				
		<b>Electrical Supply point</b> 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	<b><u>70mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>50mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>35mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>25mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>16mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>10mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>6mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	160		
	18.2 (a)	ii) Install	m	160		
	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	<b><u>4mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	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	<b><u>2.5mm², 3core PVC/SWA/PVC copper cable +ECC</u></b>				
	18.1 (a)	i) Supply	m	80		
	18.2 (a)	ii) Install	m	80		
	18.1 (a) & 18.2 (a)	iii) Terminate, complete with lugs and/or clamps, stainlesssteel nuts, bolts and lock washers.	No	6		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
<b>B</b>	<b>EMCA</b>	<b>EARTHING AND BONDING</b>				
		<u>All Earthing and bonding shall comply with the latest 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>				
1.10		<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 a	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		
<b>C</b>	<b>EMCA</b>	<b>CABLE ACCESSORIES</b>				
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	60		
	18.2 (g)	ii) Install	m	60		
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		
<b>D</b>	<b>EMCA</b>	<b>EXCAVATION</b>				
	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	26		
	18.2 (i)	ii) Soft Rock Equipment, pneumatics, jackhammers, 0.6mm deep x 0.45mm wide sleeve trench.	m³	6		
	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)				
	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		m³	8		
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				
	18.1 (h)	i) Supply	m	120		
	18.2 (h)	ii) Install	m	120		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Payment Ref	Description	Uom	Quantity	Rate	Amount
E	ESPL	LV DISTRIBUTION BOARD AND KIOSK				
	ESPL	<b>AS-build drawings</b>				
	12.1 (a)	Preparing and furnishing the "As built" drawings of complete electrical installation	sum	1		
1.22	ESPL	LV-Kiosk, wall mounted as indicated on the drawings				
	12.2 (a)	i) Supply	No	1		
	12.3 (a)	ii) Install	No	1		
1.23	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
	12.3 (a)	ii) Install	No	Elsewhere	N/A	N/A
1.24	ESPL	<b>Labelling</b>				
	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	<b>Test and commission</b>				
	12.4 (a)	Testing and commissioning the electrical installation complete and providing the C.O.C. for each DB / kiosk LV Kiosk	Sum	1		
TOTAL		SECTION NO. 5 : ELECTRICAL INSTALLATION	carried forward to final summary			

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 6 : PROVISIONAL SUMS</b>				
		<b>SUPPLEMENTARY PREAMBLES</b>				
		<b>General</b>				
		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.				
		<b>GAS STOVE AND GAS INSTALLATION</b>				
		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		
		<b>BUDGETARY ALLOWANCES</b>				
		The following budgetary allowances are for work to be executed by specialist subcontractors:				
4		Provide the sum of R120 000.00 (One Hundred and Twenty Thousand Rand) for roof construction to the MPC, Double Classroom and Grade-R Buildings.	Item	1	R 120 000.00	R 120 000.00
5		Profit on above item.	Item	1		
6		Attendance on ditto.	Item	1		
7		Provide the sum of R 65 000.00 (Sixty Five Thousand Rand) for joinery fittings to the MPC and Grade-R Buildings.	Item	1	R 65 000.00	R 65 000.00
8		Profit on above item.	Item	1		
9		Attendance on ditto.	Item	1		
		The following budgetary allowances are for work to be executed by the contractor or his domestic subcontractors:				
10		Provide the amount of R50 000.00 (Fifty Thousand Rand) for water and waste pipe installations to the MPC and Grade-R Buildings.	Item	1	R 50 000.00	R 50 000.00
11		Provide the amount of R20 000.00 (Twenty Thousand Rand) for builders work to the Double Classroom, MPC and Grade-R Buildings.	Item	1	R 20 000.00	R 20 000.00
		<b>TARGETED LABOUR ALLOWANCES</b>				
12		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
13		Allow for profit	Item	1		
14		Allow for attendance	Item	1		

VUYOLWETHU JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
15		<p>MONETARY ALLOWANCES, ETC.</p> <p>The following monetary provisions are to be omitted from the contract sum and used as directed below:</p> <p>Provide the sum of R 320 000 (Three Hundred and Twenty Thousand) for Contingencies, to be used as instructed by the Project Manager.</p>	Item	1	R 320 000.00	R 320 000.00
<b>TOTAL</b>		<b>SECTION NO. 6 : PROVISIONAL SUMS</b>	<b>carried forward to final summary</b>			



VUYOLWETHU JUNIOR PRIMARY SCHOOL			
	FINAL SUMMARY	PAGE	TOTAL
	SECTION NO. 1 : PRELIMINARIES	52	R
	SECTION NO. 2 : BUILDING WORKS	61	R
	SECTION NO. 3 : MODULAR STRUCTURES	62	R
	SECTION NO. 4 : EXTERNAL WORKS	67	R
	SECTION NO. 5 : ELECTRICAL INSTALLATION	70	R
	SECTION NO. 6 : PROVISIONAL SUMS	72	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 FOR REPAIRS TO  
MODULAR UNITS (ALTERNATIVE BUILDING TECHNOLOGY) AT  
HOKISI JUNIOR SECONDARY SCHOOL IN THE EASTERN CAPE  
PROVINCE**

**TENDER NO. RFP 304/2022**

**C2.2: BILL OF QUANTITIES**

HOKISI JUNIOR PRIMARY SCHOOL						
Item	Ref	Description	Unit	Quantity	Rate	Amount
		<b><u>SECTION 1 : PRELIMINARIES</u></b>				
	<b>SABS 1200A</b>	<b><u>PRELIMINARIES</u></b>				
<b>1</b>	<b>8.3.1</b>	<b><u>Fixed Charge Items:</u></b>				
1.1		Contractual Requirements.	Item	1		
1.2		Provision of complete as-built information at completion.	Item	1		
<b>1.3</b>	<b>8.3.2</b>	<b><u>Site Facilities:</u></b>				
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		
<b>1.4</b>		<b><u>Occupational Health and Safety Act:</u></b>  <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		
1.4.6		Provision of first aid boxes to GSR requirements.	Item	1		

HOKISI JUNIOR PRIMARY SCHOOL						
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		
<b>1.5</b>		<b>Other Fixed-Charge Items:</b>				
1.5.1	8.3.3	All other fixed charges including contractual requirements.	Item	1		
<b>2</b>		<b><u>Time Related Items:</u></b>				
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		
	<b>8.4.5</b>	<b><u>Other Time Related Charges:</u></b>				
<b>2.4</b>		<b>Environmental Management:</b>				
2.4.1		Compliance with National Environmental Management act 107 of 1998 (NEMA) as amended all all relevant Specific Environmental acts (SEMAs).	Item	1		
<b>2.5</b>		<b>Occupational Health and Safety Act:</b>  <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		

HOKISI 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		<b>Targeted Labour:</b>				
2.6.1		Compliance with targeted labour requirements including submission of monthly employment statistics.	Item	1		
2.7		<b>Site Security:</b>				
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		<b>Other Costs:</b>				
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		
<b>SECTION NO 1: PRELIMINARIES</b>			<b>carried forward to final summary</b>			

HOKISI JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		<b>SECTION NO. 2 : PROVISIONAL SUMS</b>  <b>SUPPLEMENTARY PREAMBLES</b>  <b>General</b>  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.  <b>GAS STOVE AND GAS INSTALLATION</b>  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  <b>TARGETED LABOUR ALLOWANCES</b>  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  <b>BUDGETARY ALLOWANCES</b>  7 Provide the sum of R 450 000.00 (Four Hundred and Fifty Thousand Rand) for repairs to existing modular structures.  <b>MONETARY ALLOWANCES, ETC.</b>  The following monetary provisions are to be omitted from the contract sum and used as directed below:  8 Provide the sum of R 150 000 (One Hundred and Fifty 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 450 000.00	R 450 000.00
			Item	1	R 150 000.00	R 150 000.00
<b>TOTAL</b>		<b>SECTION NO. 2 : PROVISIONAL SUMS</b>	<b>carried forward to final summary</b>			

HOKISI JUNIOR SECONDARY SCHOOL						
Item	Ref	Description	Uom	Quantity	Rate	Amount
		FINAL SUMMARY	PAGE			TOTAL
		SECTION NO. 1 : PRELIMINARIES		77	R	
		SECTION NO. 2 : PROVISIONAL SUMS		78	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 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 D2A

TENDER NO. RFP 304/2022

CLUSTER SUMMARY

A MNYAKA JUNIOR SECONDARY SCHOOL			TOTAL PER SCHOOL
SECTION NO. 1 : PRELIMINARIES	5	R	
SECTION NO. 2 : MODULAR STRUCTURES	7	R	
SECTION NO. 3 : EXTERNAL WORKS	13	R	
SECTION NO. 4 : ELECTRICAL INSTALLATION	16	R	
SECTION NO. 5 : PROVISIONAL SUMS	17	R	
SUB - TOTAL EXCLUDING VAT		R	
ADD: 15% VALUE ADDED TAX		R	
TOTAL INCLUDING 15% VAT		R	
B NGWEYESIZWE JUNIOR PRIMARY SCHOOL			TOTAL PER SCHOOL
SECTION NO. 1 : PRELIMINARIES	22	R	
SECTION NO. 2 : MODULAR STRUCTURES	24	R	
SECTION NO. 3 : EXTERNAL WORKS	28	R	
SECTION NO. 4 : ELECTRICAL INSTALLATION	31	R	
SECTION NO. 5 : PROVISIONAL SUMS	32	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 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 D2A

TENDER NO. RFP 304/2022

CLUSTER SUMMARY

C	QHAMILE JUNIOR PRIMARY SCHOOL			TOTAL PER SCHOOL
	SECTION NO. 1 : PRELIMINARIES	37	R	
	SECTION NO. 2 : MODULAR STRUCTURES	38	R	
	SECTION NO. 3 : EXTERNAL WORKS	43	R	
	SECTION NO. 4 : ELECTRICAL INSTALLATION	46	R	
	SECTION NO. 5 : PROVISIONAL SUMS	47	R	
	SUB - TOTAL EXCLUDING VAT		R	
	ADD: 15% VALUE ADDED TAX		R	
	TOTAL INCLUDING 15% VAT		R	

D	VUYOLWETHU JUNIOR PRIMARY SCHOOL			TOTAL PER SCHOOL
	SECTION NO. 1 : PRELIMINARIES	52	R	
	SECTION NO. 2 : BUILDING WORKS	61	R	
	SECTION NO. 3 : MODULAR STRUCTURES	62	R	
	SECTION NO. 4 : EXTERNAL WORKS	67	R	
	SECTION NO. 5 : ELECTRICAL INSTALLATION	70	R	
	SECTION NO. 6 : PROVISIONAL SUMS	72	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 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 D2A

TENDER NO. RFP 304/2022

CLUSTER SUMMARY

E HOKISI JUNIOR SECONDARY SCHOOL			TOTAL PER SCHOOL
SECTION NO. 1 : PRELIMINARIES	77	R	
SECTION NO. 2 : PROVISIONAL SUMS	78	R	
SUB - TOTAL EXCLUDING VAT		R	
ADD: 15% VALUE ADDED TAX		R	
TOTAL INCLUDING 15% VAT		R	

CLUSTER D2A SUMMARY			TOTAL PER SCHOOL
A	MNYAKA JUNIOR SECONDARY SCHOOL	R	
B	NGWEYESIZWE JUNIOR PRIMARY SCHOOL	R	
C	QHAMILE JUNIOR PRIMARY SCHOOL	R	
D	VUYOLWETHU JUNIOR PRIMARY SCHOOL	R	
E	HOKISI JUNIOR SECONDARY SCHOOL	R	
SUB - TOTAL EXCLUDING VAT		R	
ADD: 15% VALUE ADDED TAX		R	
TOTAL INCLUDING 15% VAT	CARRIED TO FORM OF OFFER	R	