

Item No	Quantity	Rate	Amount
<u>SECTION No. 1</u>			
<u>BILL No. 1 : PRELIMINARY AND GENERAL</u>			
<u>CPAP WORK GROUP NO. 190 UNLESS OTHERWISE STATED</u>			
(Applicable to all sections of the Works)			
<u>NOTES:</u>			
(i) The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2010) (Second Edition) , publishedby the S. A. Institution Of Civil Engineering.			
(ii) The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.			
(iii) Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.			
(iv)Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading.			
(v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable").			
(vi) Adjustment of the preliminaries: each item priced, is to be allocated to one or more of thethree categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.			
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	(vii) Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted. See Contract Data.			
	<u>SECTION A: GENERAL CONDITIONS OF CONTRACT</u>			
1	A1. General (Clause 1) F:..... V:..... T:.....	Item		
2	A2. Basis of the Contract (Clause 2) F:..... V:..... T:.....	Item		
3	A3. Engineer (clause 3) F:..... V:..... T:.....	Item		
4	A4. Contractor's General Obligation (clause 4) F:..... V:..... T:.....	Item		
5	A5. Time and Related Matters (clause 5) - As referred to in the Contract Data under Special Condition of Contract. The Contract Period shall be deemed to include all Non - Working Days, Special Non - Working Days and the year-end Builders Annual Industry Holiday Periods. F:..... V:..... T:.....	Item		
6	A6. Payment and Related Matters (clause 6) F:..... V:..... T:.....	Item		
7	A7. Quality and Related Matters (clause 7) F:..... V:..... T:.....	Item		
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8	A8. Risk and Related Matters (clause 8) F:..... V:..... T:.....	Item		
9	A9. Termination of Contract (clause 9) F:..... V:..... T:.....	Item		
10	A10. Claims and Disputes (clause 10) F:..... V:..... T:.....	Item		
<u>SECTION B: SANS 1921-1-2004 (Edition 1): CONSTRUCTION AND MANAGEMENT FOR THE WORKS: PART 1</u>				
<u>Refer to the SCOPE OF WORK for detail requirements</u>				
11	B1. Scope F:..... V:..... T:.....	Item		
12	B2. Normative references F:..... V:..... T:.....	Item		
13	B3. Definitions F:..... V:..... T:.....	Item		
14	B4. Requirements for construction and management F:..... V:..... T:.....	Item		
15	B4.1 General F:..... V:..... T:.....	Item		
16	B4.2 Responsibilities for design and construction F:..... V:..... T:.....	Item		
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STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
17	B4.3	Planning, programme and method statements F:..... V:..... T:.....	Item		
18	B4.4	Quality assurance F:..... V:..... T:.....	Item		
19	B4.5	Setting Out F:..... V:..... T:.....	Item		
20	B4.6	Management and disposal of Water F:..... V:..... T:.....	Item		
21	B4.7	Blasting F:..... V:..... T:.....	Item		
22	B4.8	Works adjacent to services and structures F:..... V:..... T:.....	Item		
23	B4.9	Management of the Works and site F:..... V:..... T:.....	Item		
24	B4.10	Earthworks F:..... V:..... T:.....	Item		
25	B4.11	Testing F:..... V:..... T:.....	Item		
26	B4.12	Materials, samples and fabrication drawings F:..... V:..... T:.....	Item		
27	B4.13	Equipment F:..... V:..... T:.....	Item		
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STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
28	B4.14 Site Establishment F:..... V:..... T:.....	Item		
29	B4.15 Survey Control F:..... V:..... T:.....	Item		
30	B4.16 Temporary Works F:..... V:..... T:.....	Item		
31	B4.17 Existing Services F:..... V:..... T:.....	Item		
32	B4.18 Health and Safety F:..... V:..... T:.....	Item		
33	B4.19 Environmental Requirements F:..... V:..... T:.....	Item		
34	B4.20 Alterations, additions, extensions and modifications to existing works F:..... V:..... T:.....	Item		
35	B4.21 Inspection of adjoining structures, services, buildings and property F:..... V:..... T:.....	Item		
36	B4.22 Attendance on nominated and selected subcontractors F:..... V:..... T:.....	Item		
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Item No		Quantity	Rate	Amount
	<u>SECTION C: SCOPE OF WORK in accordance with SANS 10403</u>			
	'(The reference to Clauses refer to Table B.1 of SANS 1921-1:2004)			
37	C1. Certification by recognised bodies - CLAUSE 4.4 F..... V:..... T:.....	Item		
38	C2. Agrément certificates - CLAUSE 4.5 F..... V:..... T:.....	N/A		
39	C3. Other services and facilities - CLAUSE 4.8 F..... V:..... T:.....	Item		
40	C4. Recording of weather - CLAUSE 5.2 F..... V:..... T:.....	Item		
41	C5. Management meetings - CLAUSE 5.3 F..... V:..... T:.....	Item		
42	C6. Daily records CLAUSE 5.6 F..... V:..... T:.....	Item		
43	C7. Bond and guarantees - CLAUSE 5.7 F..... V:..... T:.....	Item		
44	C8. Permits - CLAUSE 5.9 F..... V:..... T:.....	Item		
45	C9. Proof of compliance with the law- CLAUSE 5.10 F..... V:..... T:.....	Item		
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	<u>SECTION D: SPECIFICATION DATA</u> <u>ASSOCIATED WITH SANS 1921-1:2004 (Table A.1)</u>			
46	D1. Requirements for drawings, information and calculations for which the contractor is responsible CLAUSE 4.1.7 F..... V:..... T:.....	Item		
47	D2. The responsibility strategy assigned to the contractor for the works CLAUSE 4.2.1 F..... V:..... T:.....	Item		
48	D3. The planning, programme and method statements - CLAUSE 4.3 F..... V:..... T:.....	Item		
49	D4. Samples of materials, workmanship and finishes - CLAUSE 4.12.1 F..... V:..... T:.....	Item		
50	D5. Fabrication drawings that the contractor is to provide and deliver to the employer - CLAUSE 4.12.2 F..... V:..... T:.....	Item		
51	D6. Office for the foreman CLAUSE 4.14.3 F..... V:..... T:.....	Item		
52	D7. Telephone - CLAUSE 4.14.3 F..... V:..... T:.....	Item		
53	D8. Office for inspector of works - CLAUSE 4.14.3 F..... V:..... T:.....	Item		
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54	D9. Telephone in office for inspector of works - CLAUSE 4.14.3 F..... V:..... T:.....	Item		
55	D10. Sheds - CLAUSE 4.14.3 F..... V:..... T:.....	Item		
56	D11. Provision and erection of signboards - CLAUSE 4.14.6 F..... V:..... T:.....	Item		
57	D12. Termination, diversion or maintenance of existing services - CLAUSE 4.17.1 F..... V:..... T:.....	Item		
58	D13. Services which are known to exist - CLAUSE 4.17.3 F..... V:..... T:.....	Item		
59	D14. Detection apparatus - CLAUSE 4.17.4 F..... V:..... T:.....	Item		
60	D15. Additional health and safety requirements - CLAUSE 4.18 F..... V:..... T:.....	Item		
<u>SECTION E: SPECIFIC PRELIMINARIES</u>				
<u>Section E contains Specific Preliminary items which apply to this contract except where "N/A" (Not Applicable) appears against the item</u>				
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	<u>E1. PROPRIETARY BRANDED PRODUCTS</u>			
61	The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative. F:..... V:..... T:.....	Item		
	<u>E2. OVERTIME</u>			
62	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Engineer/Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer. F:..... V:..... T:.....	Item		
	<u>E3. AS BUILT DRAWINGS</u>			
63	The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the Structural Engineer's drawings and are to be submitted to the Engineer/Principal Agent and the Structural Engineer for their records. F:..... V:..... T:.....	Item		
	<u>E4. SITE INSTRUCTIONS</u>			
64	Site Instructions issued on site are to be recorded in triplicate in a Site Instruction book which is to be maintained on site by the Contractor. F:..... V:..... T:.....	Item		
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	<u>E5. LABOUR RECORDS</u>			
65	At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day. F:..... V:.....T:..... <i>Note: In the event that the contractor fails to satisfy the requirements of this specification, the Employer (Head: Public Works) may apply any of the sanctions provided in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum per calendar day of which the required report has not been submitted.</i>	Item		
	<u>E6. PLANT RECORDS</u>			
66	At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works. F:..... V:..... T:.....	Item		
	<u>E7. CESSION OF MONIES</u>			
67	The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract. F:..... V:..... T:.....	Item		
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Item No		Quantity	Rate	Amount
	<u>E8. SECTIONAL COMPLETION</u>			
68	When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained. F:..... V:..... T:.....	Item		
	<u>E9. LOCAL LABOUR</u>			
69	It is a general requirement of this contract that persons normally resident in the locality of the works (Local Labour) or unemployed parents whose children attend this specific school, be given preference for employment on the contract. Provided, however, that should adequate and appropriate Labour not be available within the locality, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ Local Labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of Local Labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community. All standard local labour employment forms (EPWP), local labour forms, together with the supporting documentation ie, Certified copies of ID Documents, Employment details, wage rates, proof of payments, period of employment and employment contracts, must be submitted with the monthly payment certificate to the Engineer. F:..... V:..... T:.....	Item		
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	E10. IMPORT PERMITS AND DUTIES			
70	The responsibility for obtaining the necessary import permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration. Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No. 1 of the Customs and Excise Act, 1964 with effect from 1 October 1989. F:..... V:..... T:.....	Item		
	E11. CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)			
71	Notwithstanding anything to the contrary contained in the GCC for Construction Works 2010 2nd Edition, this Contract shall only when the Construction Period exceeds 6 months and the Contract sum exceeds R1,000,000,00 be subject to the Contract Price Adjustment Provisions Indices Application Manual for use with P0151 indices (CPAP) (Revised 1 January 2013) as published by Statistics South Africa. Tenderers are advised that with reference to Clause 3.4.6 of the Contract Price Adjustment Provisions (CPAP) Indices Applications Manual, the Head: Public Works <u>will not accept the submission by Tenderers of lists of additional items.</u> Where this contract is a Lump Sum contract, the contract will be subject to Contract Price Adjustment Provisions (CPAP) only where the contract period equals or exceeds 6 calendar months. The applicable work group shall be WG 180 for domestic buildings or WG 181 for commercial and industrial buildings. F:..... V:..... T:.....	Item		
	E12. EPWP CONDITIONS AND SPECIFICATIONS			
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	<u>12.1 EMPLOYMENT TARGETS</u>			
72	E12.1 a Employment Targets The contractor needs to provide a realistic estimate on the number of jobs that the project has the potential to create throughout the project duration as the project will be implemented using labour intensive construction methods on elements where it is economical and feasible for this construction method. No of jobs to be created = [Contractor to fill in an estimated number] F:..... V:..... T:.....	Item		
73	E12.1 b Employment requirements Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment. Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program; 1. 55% of unskilled labour to be women. 2. 55% of unskilled labour to be youth aged between 18 and 35 years 3. 2% of unskilled labour to be people living with disability 4. 100% Unskilled labour utilised must reside within the boundaries of the Municipality Ward where this contract is executed, with preference to the local community closest or at the walking distance to the contract site. Wherever possible local skilled tradesmen are to be employed on this contract with the view to maximize utilization of local resources.(See E9) F:..... V:..... T:.....	Item		
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74	E12.1 c Labour rate and payment intervals The contractor should ensure that labour rate paid to unskilled local labour is commensurate to the daily task. When determining the rate, consideration should be given to that EPWP beneficiaries are mostly bread winners in their families, as the program intends alleviating poverty. There should also be consideration that the labour rate promotes creation of expanded number of jobs created and person days of work. Contractors should make endeavours to ensure that labourers, particularly unskilled are remunerated on fortnight basis and prior notification be made should there be a shortfall on their wages. The labour rate for local unskilled shall also be determined in consideration of the location of the project, i.e. for projects implemented in urbanized municipalities will not be the same as that for rural municipalities. F:..... V:..... T:.....			
	<u>12.2 LABOUR INTENSIVE CONSTRUCTION METHOD</u>			
75	<u>E12.2 a Labour Intensive Construction (LIC) method</u> On site there must a person(s) having competency in managing and implementing LIC methods. *Foreman @ NQF Level 4 the Unit Standard on Implementing LIC methods on site. *Site Agent/ Managers @ NQF level 5 the Unit Standard on Manage Labour-Intensive Skills Programme both must be CETA accredited F:..... V:..... T:.....			
		Item		
		N/A		
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76	<u>E12.2 b Labour Intensive Construction Method</u> Those parts of the contract to be constructed using Labour Intensive methods will be marked in the BoQ with letter LI (indicating Labour Intensive) against every item so designated. Such works will only be constructed using method so indicated. Reference to be made to Guidelines for the implementation of Labour Intensive Infrastructure projects under EPWP. "Scope of Work in Respect of Work Relating to the Expanded Public Works Programme (EPWP)" F:..... V:..... T:.....	N/A		
	<u>12.3 RECORD KEEPING</u>			
77	12.3.1 Every employer must keep in the project site office the following minutes of site progress minutes; contractors' monthly site progress reports; accurately recorded attendance register; proof of payment as means to verify authenticity of data in the EPWP Beneficiary form submitted with payment certificates. Copies of submitted EPWP beneficiary data forms should also be kept in the site office. F:..... V:..... T:.....	N/A		
78	12.3.2 The employer must keep this record for a period of at least three (3) years after the completion of the project in his/her office as the project site office would have been relocated. This should be safely kept for job creation data verifications and periodical audits on projects conducted by National and Provincial Department of Public Works after one (1) or two (2) quarters of submitting captured EPWP Data to the National EPWP coordinating Department. F:..... V:..... T:.....	Item		
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Item No		Quantity	Rate	Amount
	E12.4 EPWP REPORTING as per EPWP DATA FORM			
79	At the end of each month as part of site progress report and to be attached to every contractors' progress payment certificate; the contractor shall provide the principal agent & Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name & surname; ID No and job description of labour employed by main contractor and sub-contractors on site. At the end of each month the contractor must submit the following documents to be attached to the Progress payment certificate: 1. EPWP monthly data collection form 2. Worker monthly payment upload 3. Worker monthly proof of payment i.e 3.1 Acknowledgement of receipt of payment or 3.2 Payslips 3.3 Bank statement highlighted the workers paid 4. Worker monthly training form 5. Monthly attendance register 6. Certified copies of ID's (once off) 7. ID size photos (once off) 8. Proof of UIF 9. Proof of COIDA F:..... V:..... T:.....			
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	<u>E12.5 EPWP PROMOTION</u>			
80	<u>12.5.1 EPWP signage board</u> EPWP Program at the project level shall always be promoted through have the projects signage board that embrace EPWP logo at the bottom, correct measurement for this signage board will be provided by the project leader during the site handing over meeting. the standard "HELVETIVA Medium " letters are to be used . Professional title to be 10 mm above line . Line thickness to be 8 mm thick . Space between bottom of the line and bottom of the lettering below the line has to be 100 mm. Letter sizes are as follows : Helvetian medium 100 mm black upper case to be for project name and owner . Helvetian medium 75mm black upper case only to be used for professional titles.Project name and owner shall be black lettering on white background board sizes are as follows : Board to be minimum 2000mm from ground level and to be constructed from reinforced formed chromadek panels minimum 0,6mm thick chromadek. The contractor is responsible for ensuring that the project board remains neatly and safely erected for the full duration including maintenance period, after which the project board and post are to be dismantled and handed to the client in good order. F:..... V:..... T:.....	N/A		
81	<u>12.5.2 Branding of labour apparel</u> Contractor & Sub-contractors' labourers shall be provided with EPWP branded Personal Protective Equipment (PPE), reflector vest with EPWP wording at the back is an ideal and cost effective means of promoting program on site. The contractor is then advised to price for both item 17.5.1 and 17.5.2 F:..... V:..... T:.....	N/A		
	<u>E12.6 COMMUNITY LIAISON OFFICER (CLO)</u>			
82	<u>UTILISATION OF A COMMUNITY LIAISON OFFICER</u> In addition to the requirements of Clause E9, contained in this document;			
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	The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract. In the interest of providing a sound service to both the community and the Contractor, a CLO may only manage one project at a given time. A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community. <u>Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:</u> 1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor. 2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor. 3. Assisting the contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor. 4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise. 5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained. 6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained			
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	E12.7 SKILLS DEVELOPMENT ON SITE			
83	Contractor in conforming to the object of EPWP that its beneficiaries need to be capacitated with skills that will render them employable in the future. It is then the responsibility of the Contractor that mandatory life skills are provided to 100% of workforce on site and on the job training to labourers from whom the potential for further development has been identified. The latter is not mandatory to all as it covers technical skills. Contractor should also make provision for the possibility that there might be local youth that will need to be placed on the project with an intention to be provided support towards improving their level of competency and productivity. Contractor shall also provide all necessary on-the-job training to targeted labour to enable such labour to master and advance on techniques required to undertake the work in accordance with requirements of the contract in a manner that does not compromise workers health and safety. F:..... V:..... T:..... E12.8 LABOUR ONLY Sub Contracting for local emerging enterprises Tenderer's are advised that this contract is subject to the Expanded Public Works Programme (EPWP) and the following criteria will apply:			
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a) The Tenderer is to allow for 5% of the total value of works to be undertaken by a Priority Population Group. This percentage excludes the costs of employing local unskilled labour. The allocation of this percentage from the Project, the screening of people, the selection of skills, will be for the Contractor to adjudicate.

b) The Priority Population Group consists of women, youth and disabled people.

c) The Contractor is to give first option for prospective PPG's from the surrounding areas of the Project. Should there be insufficient suitable people fitting the criteria of PPG's, the Contractor may hire people from further afield. This is to be done only after consultation with the Department of Works EPWP Co-ordinator and the Community Liaison Officer (CLO).

d) A Mentor is to be employed by the Contractor, in consultation with the Department of Works for the purposes of quality control and liaison between the Contractor and the selected PPG's on site. The mentor will be responsible for ensuring an acceptable level of quality workmanship and that such work carried out by the PPG's is executed within the time frames stipulated.

In so far as possible, the Contractor is encouraged to expand the PPG's skills, knowledge and performance levels.

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<u>TENDERER'S TO NOTE CONDITIONS</u>			
a) The contract to be entered into between the Contractor and the PPG's will be a LABOUR ONLY sub-contract.			
b) The Contractor will be responsible for ensuring that all materials for use by the PPG's in the works are to be on site timeously. The Contractor shall liaise with The Mentor and PPG to determine the nature and extent of materials required and the lead time necessary.			
c) The Contractor shall be responsible for the overall programming of the Works and he is to allow for monitoring the PPG's programme and progress.			
d) In conjunction with the Mentor, he is to allow for the supervision and mentoring (where necessary) of the PPG to ensure quality and adherence to standard building practice			
e) The Contractor is to allow for extra storage facilities on site for the PPG's tools and equipment.			
f) Basic tools shall be provided by the PPG's and where these are not available; the Contractor will supply him with the necessary tools and equipment and deduct the costs thereof from the interim claims made by the PPG.			
g) Work requiring specialized tools will be provided free of charge by the Contractor with the provision that these be returned upon completion of the Work.			
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	<u>CO-ORDINATION</u>			
85	The Contractor is to co-ordinate the work of all the PPG's, Sub-Contractors and Nominated Sub-Contractors appointed direct by the Employer in such a manner and at all times as will suit the building programme and he is to allow adequate access, for the PPG's, where required, to carry out their work in an efficient manner as no claims for extras in this connection will be entertained. F:..... V:..... T:.....	Item		
	<u>ATTENDANCE</u>			
86	The Contractor may allow for attendance upon the PPG's concerned to execute the work. The Contractor is to allow the PPG's the use of any scaffolding belonging to him while it remains so erected on the site. Where scaffolding is necessary for the use by any PPG and the Contractor has not erected any for his own use or has removed same after his own use, the Contractor shall supply sufficient scaffolding to the PPG to be erected and dismantled by the PPG and returned to the Contractor. This attendance upon PPG's to execute the work is to include for the scaffolding provisions as aforesaid and, in addition, is to include for co-operating to the fullest extent with all the parties, attending on off-loading materials, providing suitable storage for tools and materials used by the PPG's, use of general facilities such as latrines, etc., supply and cost of power, lighting, water and the like. F:..... V:..... T:.....	Item		
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	<u>E12.9 EPWP CONTRACT FOR LABOUR</u>			
87	It is compulsory that shortly after the contractor and or sub contractor has appointed local labour, the employment contract should be signed by both parties, prior to commencement with works on site. The employment contract forms part of the Ministerial Determination or from the regional EPWP officials. Each contract will lapse at the end of each financial year therefore requiring the Contractor to do a renewal of each contract should the need of employment still exist for that particular labourer. F:..... V:..... T:.....	Item		
	<u>E12.10 EPWP SCOPE OF WORK</u>			
	Contractors are to price any item on the Bill of Quantities having below, bearing in mind that they are regarded as main sources of job creation, whether sub contracted or undertaken by the main contractor.			
88	Elements on the scope of work where application of Labour Intensive Construction methods as will indicated with letters (LI) are regarded feasible are as follows; i) Excavating trenches for foundations and any other civil works with the depth not more than 1.5 m ii) All masonry works which include concrete mixing on site; brickwork; plastering; screed works; jointing; etc. iii) Painting, Plumbing, Ironmongery; roof cladding; glazing; tiling; carpentry; flooring; waterproofing; etc. F:..... V:..... T:.....	Item		
89	Note: It is a general requirement of this contract that persons not ward of the works (local labour) be given preference for employment on this contract. Provided, however, that should adequate and appropriate labour be available within the ward, others may be employed subject to proof being provided that every reasonable endeavour has been made to employ local labour.			
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Item No		Quantity	Rate	Amount
	employ local labour (Local Sub-contractor(s); Skilled; Semi Unskilled). The contractor shall in consultation with the local community with the purpose of negotiating with them regarding the utilisation of resources in the construction process. In this regard, the contractor shall furthermore give preference, wherever possible to the employment of heads of households, women and youth as well as families of the unemployed indigent by War on Poverty/ Sukuma Sakhe program profile. The contractor should aim, in general, to maximise the involvement of the local community, however workers from other communities should also be employed. All persons working on the project, where local employees of competency that meet contractors requirements. Payment for the labour-intensive component of the works. Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict. <u>Linkage of payment for labour-intensive component of works to submission of project data.</u> The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted. <u>Applicable labour laws</u> The current Ministerial Determination (also downloadable at www.epwp.gov.za) Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice , shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.			
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	F:..... V:..... T:.....	Item		
	<u>E13 HIV/AIDS AWARENESS</u>			
	Tenderers are to price against the following items for compliance with the SPECIFICATION FOR HIV/AIDS AWARENESS bound into this document (The clauses referred to are those of the Specification for HIV/AIDS)			
90	E13.1 Provide and maintain a condom dispenser in terms of Clause 5.1a) F:..... V:..... T:.....	Item		
91	E13.2 Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b) F:..... V:..... T:.....	Item		
92	E13.3 HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs; Engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme in terms of Clause 5.2.1a) F:..... V:..... T:.....	Item		
93	E13.4 Arrange for workers to attend the HIV Awareness Programme in terms of Clause 5.2.1b) F:..... V:..... T:.....	Item		
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Item No		Quantity	Rate	Amount
	<u>E13 HIV/AIDS AWARENESS</u>			
94	E13.5 Reporting Prepare and attach to claims for payment a brief report in terms of Clause 5.3 (see also HIV/STI Compliance Report included with this document). F:..... V:..... T:..... Note: In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Public Works) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum per calendar day of which the required reports has not been submitted.	Item		
	<u>E14 OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993</u>			
95	Tenderers are to allow for costs in providing a project specific ' Construction Phase Safety, Health and Environmental Plan' in accordance with "Section 2 - Specification Data associated with SANS 1921-1:2004" clause C4.18 in "Part C3 - Scope of Work" F:..... V:..... T:.....	Item		
	<u>E15 NOTICE BOARD, SITE OFFICE, ETC.</u>			
96	Bidders are to allow for the provision and removal of a project notice board and a site office in accordance with the Principal Agent's requirements. F:..... V:..... T:.....	Item		
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E16 IMPORTED MATERIALS AND EQUIPMENT

97 | Where imported items are listed in the tender documents, the tenderer shall provide all information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. (Refer to T2.14 - Schedule of Imported Materials and Equipment.

F:_____ V:_____ T:_____

E17 CONTRACT DOCUMENTS

98 The drawings issues with these Bid documents do not comprise the complete set but serves as a guide only for Bidding purposes and for indicating the scope of works to enable the Bidder to acquaint him with the nature and extent of the works and the manner in which they are to be executed.

Should any part of the drawings not be clearly legible to the Bidder he shall, before submitting his Bid, obtain clarification in writing from the principal agent.

F: _____ V: _____ T: _____

E18 GENERAL PREAMBLES

99 The Document Preambles will be the “ASAQS Model Preambles for Trades – 2008” and is obtainable from the various Regional Office’s of the Department of Public Works and shall be read in conjunction with the Bills of Quantities and be referred to for the full descriptions of work to be done and materials to be used.

F:..... V:..... T:.....

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Item No		Quantity	Rate	Amount
	<u>E19 TRADE NAMES</u>			
100	Wherever a Trade Name for any product has been described in the Bills of Quantities the Bidder's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior to the closing date for submission of Bids. F:..... V:..... T:.....	Item		
	<u>E20 EXISTING PREMISES OCCUPIED</u>			
101	Refer to Scope of Works Part C3 of this Bid Document for information on the occupation of existing buildings. F:..... V:..... T:.....	Item		
	<u>E21 INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT</u>			
102	The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work. Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work. F:..... V:..... T:.....	Item		
	<u>E22 VIEWING THE SITE IN SECURITY AREAS</u>			
103	If the site is situated in a security area and the Bidder must arrange with the Authorities to obtain permission to enter the site for Bidding purposes. F:..... V:..... T:.....	Item		
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Item No		Quantity	Rate	Amount
	E23 COMMENCEMENT OF WORKS IN SECURITY AREAS			
104	If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account. F:..... V:..... T:.....	Item		
	E24 ENTRANCE PERMITS TO SECURITY AREAS			
105	If the works fall within a security area, the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under control of the Authority. F:..... V:..... T:.....	Item		
	E25 SECURITY CHECK OF PERSONNEL			
106	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works. F:..... V:..... T:.....	Item		
	Carried to Collection		R	
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Item No		Quantity	Rate	Amount
	<u>E26 PROHIBITION ON TAKING PHOTOGRAPHS</u>			
107	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking photographs, except when authorised thereto by or on behalf of the Minister. The same prohibition is also applicable to all Correctional Institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959. F:..... V:..... T:.....	Item		
	<u>E27 MANAGEMENT OF WATER</u>			
108	Water for Construction purposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licenced water treatment works for human consumption), eg dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality / standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage. F:..... V:..... T:.....	Item		
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Item No	Quantity	Rate	Amount
<u>SECTION No. 2</u>			
<u>BILL No. 1 : ALTERATIONS</u>			
Key	Location Description		
A	2 Classroom Block		
B	1 Classroom & Admin Block		
C	5 Classroom Block		
D	Staff Ablution		
E	Female Ablution		
F	Male Ablution		
G	Kitchen		
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Existing Furniture, Equipment, etc</u>			
The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done			
Carried to Collection			R
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Item No	Quantity	Rate	Amount
<u>Damage to existing finishes</u>			
The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.			
Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account			
<u>Responsibility for site</u>			
The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated			
Carried to Collection			R
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Item No	Quantity	Rate	Amount
General			
The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately "Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the fame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing			
Carried to Collection			R
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Item No		Quantity	Rate	Amount
	"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing "Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing "Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained			
	Carried to Collection		R	
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Item No		Quantity	Rate	Amount
	"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described. <u>Removal of asbestos material</u> All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc. <u>The following shall apply in respect of asbestos removal</u> The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001 Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose			
	Carried to Collection		R	
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Item No		Quantity	Rate	Amount
	Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted cinimally The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained (CPAP WORK GROUP NO. 102 UNLESS OTHERWISE STATED) <u>TEMPORARY BARRIERS, SCREENS, ETC</u> <u>Temporary barriers, screens, etc including removal and allow for re-use</u>			
1	SANS approved weld mesh type temporary barrier fencing and shade cloth 1,8m high fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including re-using barrier as the work progress as per the construction programme.	m	150	
	A : 150 B : 0 C : 0 D : 0 E : 0 F : 0 H : 0			
	Carried to Collection		R	
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Item No		Quantity	Rate	Amount
	<u>Temporary protection and waterproofing of roofs</u>			
2	Temporary waterproof and weatherproof protection of buildings where roofing and related items have been removed during construction including the supply, installation and rotation of the temporary protection throughout the contract period as per the construction program	m2	167	
	A : 0 B : 167 C : 0 D : 0 E : 0 F : 0 H : 0			
	<u>DEMOLISH</u>			
	<u>Demolish & remove existing</u>			
3	Single storey building comprising brickwork and gumpoles under partial metal roof sheeting overall size 4 x 4 x 2,5m high	No	1	
	A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 H : 0			
4	2540 x 2540 x 620mm High Tank Stand	No	6	
	A : 0 B : 2 C : 4 D : 0 E : 0 F : 0 H : 0			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Break down and remove brickwork etc</u>			
5	M140 Blockwork in beamfill and small areas	m2	16	
	A : 0 B : 16 C : 0 D : 0 E : 0 F : 0 H : 0			
	<u>Take out and remove doors, windows, etc from brickwork to remain</u>			
6	Timber door and timber door frame 0,9 x 2,1m high in facebrick wall	No	7	
	A : 1 B : 0 C : 0 D : 6 E : 0 F : 0 H : 0			
	Carried to Collection			
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Item No			Quantity	Rate	Amount
7	Timber door and timber door frame 0,9 x 2,1m high in M140 block wall	No	7		
	A : 0 B : 2 C : 5 D : 0				
	E : 0 F : 0 H : 0				
8	Glazed steel window 1,0 x 1,5m high from M140 block walls	No	1		
	A : 0 B : 0 C : 1 D : 0				
	E : 0 F : 0 H : 0				
	<u>Take down and remove glass & mirrors</u>				
9	Glass from steel windows including cleaning out rebates & preparing for new glass (new glass elsewhere)	m2	9		
	A : 1 B : 1 C : 2 D : 1				
	E : 2 F : 2 H : 0				
	<u>Take down and remove roofs, floors, panelling, ceilings, partitions, etc</u>				
10	Corrugated metal roof sheeting, including timber purlins, underlay etc.	m2	167		
	A : 0 B : 167 C : 0 D : 0				
	E : 0 F : 0 H : 0				
11	Gypsum plasterboard ceilings including cornices, timber brandering, etc not exceeding 3,5m high	m2	113		
	A : 113 B : 0 C : 0 D : 0				
	E : 0 F : 0 H : 0				
12	Fascia boards and fixings	m	169		
	A : 32 B : 32 C : 74 D : 10				
	E : 12 F : 9 H : 0				
13	Barge boards and fixings	m	74		
	A : 0 B : 21 C : 11 D : 14				
	E : 16 F : 12 H : 0				
14	Rainwater gutters and fixings	m	152		
	A : 31 B : 16 C : 74 D : 10				
	E : 12 F : 9 H : 0				
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Item No		Quantity	Rate	Amount
15	Rainwater downpipes and fixings A : 16 B : 8 C : 16 D : 0 E : 0 F : 0 H : 0 Hack up/off & remove grano, screed, plaster & prepare surface to receive new	m	40	
16	30mm Screed from floors in patches A : 56 B : 55 C : 113 D : 0 E : 0 F : 0 H : 0	m2	224	
17	Internal plaster to brickwork in patches A : 5 B : 7 C : 0 D : 0 E : 0 F : 0 H : 0	m2	12	
18	External plaster to brickwork in patches A : 0 B : 7 C : 10 D : 0 E : 0 F : 0 H : 0 Hack up/off & remove ceramic tiles & prepare surface to receive new	m2	17	
19	On walls in patches A : 0 B : 0 C : 0 D : 0 E : 1 F : 1 H : 0 Take out and remove piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)	m2	3	
20	PVC wash hand basin including brackets A : 0 B : 0 C : 0 D : 0 E : 4 F : 4 H : 0 STRUCTURAL REPAIRS	No	8	
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Item No		Quantity	Rate	Amount
	<u>Repairs to structural cracks, etc</u>			
21	Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long and plaster over (plaster measured elsewhere) A : 0 B : 4 C : 15 D : 2 E : 0 F : 0 H : 0	m	21	
22	Rake out existing major structural crack blockwork, remove all debris/loose material including embedding steel rods, cutting or drilling slots (60mm deep) in brickwork at 250mm centres to embed 8mm mild steel bars fixed between mortar joints with injected epoxy resin A : 0 B : 2 C : 0 D : 0 E : 0 F : 0 H : 0	m	2	
	<u>SERVICE</u>			
	<u>Windows</u>			
23	Service steel window including lubricating ironmongery and leave in workable condition (replacement of damaged/ missing ironmongery measured elsewhere) A : 14 B : 7 C : 35 D : 4 E : 8 F : 4 H : 0	No	72	
	<u>Inspection and Repairs of Existing Roofs</u>			
24	The contractor is to carry out an inspection of the existing roofs, remove and replace all loose metal sheets, remove and replace damaged sisalation, and roof screws with approved new (8mm diameter with 26mm washers and rubber gasket) including the re-fixing of all looses roof sheets, in accordance to the manufacturer's instructions. A : 164 B : 0 C : 386 D : 41 E : 36 F : 27 H : 0	m2	654	
	<u>SUNDRIES</u>			
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Item No			Quantity	Rate	Amount
	<u>Desludging</u>				
	Debris and rubble covering the access to the pit latrine must be cleared and disposed of at a registered landfill site. The pit latrine is to be accessed by the removable cover or removal of the access concrete slab. The solids that cannot be pumped out must be dug out by mechanical means. When the contents of the pit or tank are to be pumped out and the sludge is too firm or dry it must be jetted with a high pressure hose and agitate the mixture of sludge and water with the end of the suction hose before pumping begins. After pumping out the contents of the pit, the tanker must be driven to a legally authorised safe-disposal site, such as an off-site sewage treatment works, where the contents can be emptied. Dry pits or pits containing large quantities of solid materials including stones, sticks, plastic bags, debris, etc. must be cleaned by individuals with hand held mechanical machinery with the appropriate protective gear in terms of the OHS Act as well as certified to work in confined spaces. Contractors are to ensure that the vacuum tankers are suitable to manoeuvre close to latrines without compromising the integrity of the pit latrine				
25	Clean out pit latrine by desludging. Contractor to price per toilet seat approximately 2Kl in volume	No	16.00		
	<u>Temporary Accommodation</u>				
	<u>Provide temporary accommodation units (park homes) for Educational Facilities during construction in phases as herewith measured including leveling of area, positioning on site and connected electrical supply including issue of electrical compliance certificate. Park homes to be standard size class room size and needs to be minimum 7 x 7m or nearest standard size</u>				
26	Rental of temporary accommodation approximate size 7 x 7m wide, including standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, electrical certificate of compliance, for a period of seven (7) calendar months	No	5		
	A : 0 B : 0 C : 5 D : 0 E : 0 F : 0 H : 0				
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STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
27	Two tier steps for seven (7) Calendar months A : 0 B : 0 C : 5 D : 0 E : 0 F : 0 H : 0	No	5		
28	Transportation and establishment on site and de-establishment on completion temporary accommodation units approximate size 7 x 7m wide A : 0 B : 0 C : 5 D : 0 E : 0 F : 0 H : 0	No	5		
<u>Temporary Ablutions</u>					
29	Rental of temporary plastic ablutions approximate size 1,2 x 1,2 x 2,3m high for the sole use by the school, for 6 months inclusive of servicing on a regular basis. Ablutions are to be kept clean and in operation for the duration A : 0 B : 0 C : 0 D : 2 E : 4 F : 2 H : 0	No	8		
30	Transportation and establishment on site and de-establishment on completion temporary ablutions approximate size 1,2 x 1,2 x 2,3m high A : 0 B : 0 C : 0 D : 2 E : 4 F : 2 H : 0	No	8		
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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 1 : MASONRY</u>			
	Key Location Description			
	A 2 Classroom Block			
	B 1 Classroom & Admin Block			
	C 5 Classroom Block			
	D Staff Ablution			
	E Female Ablution			
	F Male Ablution			
	G Kitchen			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>BRICKWORK</u>			
	<u>(CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Bricks</u>			
	Clay & concrete bricks are to comply with N.H.B.R.C Part 2, Section 3			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
	Carried to Collection		R	
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 1			
	Masonry			
	NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.			
	<u>Pointing</u>			
	All pointing of exposed joints to be concave			
	<u>Samples</u>			
	Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site			
	<u>BLOCKWORK</u>			
	<u>Concrete masonry units</u>			
	Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa			
	<u>Wall ties for blockwork</u>			
	Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other			
	<u>Blockwork</u>			
	Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 1 Masonry NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole			
	<u>Standard complementary blocks</u>			
	Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary			
	<u>SUPERSTRUCTURE</u>			
	<u>3,5MPa Cement blocks in class II mortar</u>			
1	M140 wall in beamfilling A : 0 B : 5 C : 0 D : 0 E : 0 F : 0 H : 0	m2	5	
2	M140 block walls A : 0 B : 11 C : 0 D : 0 E : 0 F : 0 H : 0	m2	11	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Galvanized brickwork reinforcement</u>			
3	75mm Wide reinforcement built in horizontally A : 0 B : 82 C : 0 D : 0 E : 0 F : 0 H : 0	m	82	
	<u>15MPa Mass concrete</u>			
4	Infill to single row of M140 U block blockwork A : 0 B : 16 C : 0 D : 0 E : 0 F : 0 H : 0	m	16	
	Carried to Collection			
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 1 Masonry NAIDU CONSULTING			
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Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 1

Masonry

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New Works to Existing Structures (Provisional)

Bill No. 1

Masonry

NAIDU CONSULTING

Item No	Quantity	Rate	Amount
SECTION No. 3			
<u>BILL No. 2 : ROOF COVERINGS</u>			
Key	Location Description		
A	2 Classroom Block		
B	1 Classroom & Admin Block		
C	5 Classroom Block		
D	Staff Ablution		
E	Female Ablution		
F	Male Ablution		
G	Kitchen		
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Sheeting</u>			
The roof sheeting shall be 0,55mm AZ150 ZincAl or equal approved IBR 686 profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Z275 galvanized steel complying with ISQ 550 (3T). A certificate verifying compliance shall be issued by the manufacturer.			
<u>Finish for AZ150 Zincalume</u>			
The profile shall be supplied with a paint finish G550 consisting of a full top coat "Colourplus" or equal approved silicone modified polyester Colour: To match existing on one side and Cool Grey backing to other			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING			

Item No	Quantity	Rate	Amount
<u>Assembly</u>			
The AZ150 ZincAl sheets shall be fixed to every purlin strictly in accordance with manufacturer's specifications. Holes through sheeting are to be drilled and NO punching of holes are allowed. 8mm Diameter x 75mm long fixing screws with 19mm diameter washer and rubber gasket are to be used. Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced			
<u>Flashings</u>			
Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side			
<u>Quality Assurance</u>			
The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING			

Item No	Quantity	Rate	Amount
<u>Guarantee</u>			
AZ150 ZincAl or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials and a five year written guarantee on workmanship and water-tightness after final inspection of the roofs, by the manufacturer.			
<u>Safety</u>			
The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity			
<u>Handling and Storage</u>			
The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Inspection Prior to Installation or Erection</u> Before commencing with installation, the contractor shall verify that the following items have been checked and accepted: a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances c. The corners of the roof are square and the wall framework is perpendicular or as specified d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding <u>Protrusion through Sheeted Surfaces</u> Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Cleaning of Roofs, etc</u>			
	All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc			
	<u>ROOF COVERING</u>			
	<u>(CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,55mm Zincalume IBR 686 sheeting and accessories with Colorplus finish (colour : Standard colour on one side and CoolGrey backing to other), in long lengths fixed using Class 3 Climaseal screws (8mm diameter with 26mm diameter washer and rubber gasket) as per manufacturer's recommendations for coastal areas to 50 x 76mm treated SA Pine purlins @ 900mm centres on Sisalation elsewhere measured</u>			
1	Roof covering with pitch not exceeding 25 degrees A : 0 B : 164 C : 0 D : 0 E : 0 F : 0 H : 0	m2	164	
2	Ridge covering 650mm girth, screwed through sheet to purlins A : 16 B : 16 C : 37 D : 0 E : 0 F : 0 H : 0	m	69	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING				

Item No		Quantity	Rate	Amount
3	Color coded metal angle flashing made from the same roofing sheet material and the same color with size 200 x 100mm and inner drip edges as well as outer drip edge, bent at 2.5 degrees respectively, fixed to fascia through the roof sheeting to the purlins. A : 21 B : 10 C : 31 D : 12 E : 14 F : 12 H : 0	m 100		
4	Sidewall flashing, screwed through sheet to purlins and counter flashing. Counter flashing to be grooved and sealed into plastered wall A : 0 B : 11 C : 11 D : 0 E : 0 F : 0 H : 0	m 22		
5	Moulded narrow and broad rib polyethelene filler blocks A : 32 B : 18 C : 75 D : 21 E : 13 F : 0 H : 0	m 159		
6	Moulded Sondor Metal Polyclosures for IBR roof sheeting profile color coated. A : 62 B : 33 C : 148 D : 0 E : 0 F : 0 H : 0	m 243		
<u>ROOF AND WALL INSULATION</u>				
7	Allow for insulation joints to be taped with approved Sisalation Duct tape	Item		
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Roof Coverings NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 2

Roof Coverings

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New Works to Existing Structures (Provisional)

Bill No. 2

Roof Coverings

NAIDU CONSULTING

Item No	Quantity	Rate	Amount
<u>SECTION No. 3</u>			
<u>BILL No. 3 : CARPENTRY & JOINERY</u>			
Key	Location Description		
A	2 Classroom Block		
B	1 Classroom & Admin Block		
C	5 Classroom Block		
D	Staff Ablution		
E	Female Ablution		
F	Male Ablution		
G	Kitchen		
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>ROOFS ETC</u>			
<u>TIMBER</u>			
Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460			
<u>BOLTS</u>			
Bolts shall be to BS 4190 or SABS 135 with appropriate washers. (See below)			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 3 Carpentry & Joinery NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>WASHERS</u>			
	Square or round washers of the following minimum dimensions shall be used with all bolts:			
	WASHER DIMENSIONS			
	Bolts Size Width (mm) Thickness			
	up to M8 25 2,5			
	up to M12 36 4,0			
	up to M20 60 5,0			
	<u>NAILS</u>			
	These shall be in accordance with SABS 820 : 1974			
	<u>GENERAL</u>			
	The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading			
	The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative			
	<u>Sawn Softwood</u>			
1	38 x 114mm false rafter fixed to rafter ends to receive fascia boards(elsewhere measured)	m	266	
	A : 53 B : 42 C : 105 D : 21			
	E : 26 F : 19 H : 0			
2	76 x 50mm Purlins	m	106	
	A : 0 B : 106 C : 0 D : 0			
	E : 0 F : 0 H : 0			
3	76 x 50mm Cross bracing	m	121	
	A : 31 B : 16 C : 74 D : 0			
	E : 0 F : 0 H : 0			
	Carried to Collection		R	
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 3			
	Carpentry & Joinery			
	NAIDU CONSULTING			

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
4	Hurricane clips A : 140 B : 140 C : 350 D : 0 E : 0 F : 0 H : 0	No 630		
	<u>EAVES, VERGES, ETC</u>			
	<u>Approved fibre cement</u>			
5	12 x 225mm Fascias to match existing including H-profile jointing strips A : 53 B : 42 C : 105 D : 21 E : 26 F : 19 H : 0	m 266		
	<u>DOORS ETC</u>			
	<u>SANS approved Meranti</u>			
6	44mm SABS approved Framed ledged braced door 813 x 2 032mm high A : 2 B : 2 C : 5 D : 1 E : 2 F : 1 H : 0	No 13		
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 3 Carpentry & Joinery NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 3

Carpentry & Joinery

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New Works to Existing Structures (Provisional)

Bill No. 3

Carpentry & Joinery

NAIDU CONSULTING

Item No	Quantity	Rate	Amount
<u>SECTION No. 3</u>			
<u>BILL No. 4 : CEILINGS, PARTITIONS & ACCESS FLOORING</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
<u>Trade Names</u>			
Where trade names are specified equal materials approved by the Principal Agent may be used			
<u>(CPAP WORK GROUP NO. 128 UNLESS OTHERWISE STATED)</u>			
<u>CEILING INSULATION</u>			
<u>Approved flexible non-combustible lightweight insulation</u>			
1	100mm Insulation loosely laid on top of brandering between roof timbers etc strictly in accordance with the manufacturer's detail and specification	m2	506
<u>NAILED UP CEILINGS</u>			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 4 Ceilings, Partitions and Access Flooring NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Approved 9.5mm gypsum plasterboard with taped & skimmed joints</u>			
2	Ceilings including 38 x 38mm sawn softwood bandering at 500mm centres one direction.	m2	506	
3	Extra over ceiling for 600 x 600mm trap door	No	9	
	<u>Gypsum Plasterboard Cornice</u>			
4	75mm Coved cornice	m	270	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 4 Ceilings, Partitions and Access Flooring NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 4

Ceilings, Partitions and Access Flooring

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New Works to Existing Structures (Provisional)

Bill No. 4

Ceilings, Partitions and Access Flooring

NAIDU CONSULTING

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Item No	Quantity	Rate	Amount
<u>SECTION No. 3</u>			
<u>BILL No. 5 : IRONMONGERY</u>			
Key	Location Description		
A	2 Classroom Block		
B	1 Classroom & Admin Block		
C	5 Classroom Block		
D	Staff Ablution		
E	Female Ablution		
F	Male Ablution		
G	Kitchen		
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Keys/Locks</u>			
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
<u>Trade Names</u>			
Where trade names are specified other ironmongery approved by the Principal Agent may be used			
<u>Fixing</u>			
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
<u>IRONMONGERY</u>			
<u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u>			
Carried to Collection			
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 5 Ironmongery NAIDU CONSULTING			R

Item No			Quantity	Rate	Amount
	<u>HINGES, BOLTS, ETC</u>				
	<u>Approved</u>				
1	75 x 102mm Stainless steel hinge	No	36		
	A : 3 B : 3 C : 3 D : 9				
	E : 9 F : 9 H : 0				
2	Indicator bolt with chromium plated finish	No	36		
	A : 0 B : 0 C : 0 D : 9				
	E : 9 F : 9 H : 9				
3	150mm Stainless steel cabin hook	No	3		
	A : 1 B : 1 C : 1 D : 0				
	E : 0 F : 0 H : 0				
	<u>LOCKS</u>				
	<u>Approved</u>				
4	Three lever mortice lockset and furniture to external door	No	13		
	A : 2 B : 2 C : 5 D : 1				
	E : 2 F : 1 H : 0				
	<u>HANDLES</u>				
	<u>Approved</u>				
5	Set of two 111mm pull handles fixed back to back	No	13		
	A : 2 B : 2 C : 5 D : 1				
	E : 2 F : 1 H : 0				
	<u>WINDOW FITTINGS</u>				
	<u>Approved</u>				
6	Brass plated sliding stay to existing steel window	No	16		
	A : 3 B : 2 C : 8 D : 1				
	E : 1 F : 1 H : 0				
	Carried to Collection				R
	Section No. 3				
	New Works to Existing Structures (Provisional)				
	Bill No. 5				
	Ironmongery				
	NAIDU CONSULTING				

Item No			Quantity	Rate	Amount
7	Brass plated sash fastner to existing steel window	No	12		
	A : 2 B : 2 C : 5 D : 1				
	E : 1 F : 1 H : 0				
8	Brass plated casement stay to existing steel window	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 F : 0 H : 0				
9	Brass plated window handle to existing steel window	No	19		
	A : 4 B : 2 C : 10 D : 1				
	E : 1 F : 1 H : 0				
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
10	2400 x 1200mm High, wall mounted aluminium framed pinning board.	No	9		
	A : 2 B : 2 C : 5 D : 0				
	E : 0 F : 0 H : 0				
11	2420 x 1220mm fixed projection white board (non reflective) aluminium framed, magnetic surface (centre board) complete with (x2) 1210 x 1220mm swing leaf aluminium framed magnetic chalk boards (without any lines or graphics, etc) with heavy duty hinges and 2250mm one complete aluminium pen tray to the centre board.	No	8		
	A : 2 B : 1 C : 5 D : 0				
	E : 0 F : 0 H : 0				
Carried to Collection					R
Section No. 3					
New Works to Existing Structures (Provisional)					
Bill No. 5					
Ironmongery					
NAIDU CONSULTING					

Item No		Quantity	Rate	Amount
12	Magnetic Starter Pack (x1 Full Complete Set) consisting of: 4 x White board markers (Red, Green, Black, Blue) 1 x Cleaning Cloth 1 x Magnetic Eraser 1 x Cleaning Fluid 250ml 4 x Moulded magnets d day A : 2 B : 1 C : 5 D : 0 E : 0 F : 0 H : 0 <u>SUNDRIES</u> <u>Approved</u>	No	8	
13	38mm Diameter rubber floor/wall mounted door stop A : 0 B : 0 C : 0 D : 6 E : 10 F : 6 H : 0 <u>PUSH PLATES AND KICKING PLATES</u> <u>"Solid"</u>	No	22	
14	800mm x 200mm high x 2mm aluminium screw mounted kick plate. A : 4 B : 4 C : 10 D : 2 E : 4 F : 2 H : 0	No	26	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 5 Ironmongery NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 5

Ironmongery

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New Works to Existing Structures (Provisional)

Bill No. 5

Ironmongery

NAIDU CONSULTING

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 6 : METALWORK</u>			
	Key Location Description			
	A 2 Classroom Block			
	B 1 Classroom & Admin Block			
	C 5 Classroom Block			
	D Staff Ablution			
	E Female Ablution			
	F Male Ablution			
	G Kitchen			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>METALWORK</u>			
	<u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u>			
	<u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u>			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>GALVANIZED PRESSED STEEL DOOR FRAMES</u>			
1	To suit 813 x 2032mm high door A : 2 B : 2 C : 5 D : 1 E : 2 F : 1 H : 0	No	13	
	<u>1,2mm Rebated frames suitable for M140 block walls</u>			
	<u>Standard Industrial Windows</u>			
2	SS33 Window 987 x 1 445mm high to match existing with and including factory fitted burglar bars A : 0 B : 0 C : 1 D : 0 E : 0 F : 0 H : 0	No	1	
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Metalwork NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>GALVANISED MILD STEEL GATES</u> <u>Gate constructed from hot-dipped galvanized mild steel, consisting of 40 x 30 x 2mm thick rectangular hollow section to outer frame and horizontal rails. Infill to be 8 No. continuous 10mm diameter galvanised mild steel rods passing through and welded to horizontal rails and welded to outer frame. Lock housing to be formed of (2 Off) 10 x 180 x 3mm galvanised mild steel plates welded to finish flush with each face of the gate and is to have the necessary cut-outs for the lock deadbolt and Profile cylinder. Frame stile to hinge side to be 30 x 30 x 2mm thick galvanised mild steel hollow square section 2m long, bolted to wall with (4 Off) expansion bolts. 30 x 30 x 2mm thick galvanised mild steel hollow square section 260mm long, twice bolted to wall as lock keep. End caps to be provided to both the frame stile and the lock keep. 1,5 pairs galvanised mild steel pintle hinges welded to gate and frame stile. Pin of top hinge to be inverted. (1 Off) Profile Cylinder Gate Lock with housing and 2 x double cylinder. (1 Off) cabin hook and eye with cabin hook screwed to 100 x 70 x 32mm Meranti block plugged and screwed to wall, and eye welded to leading edge of gate outer frame Gate is to be cleaned down on completion and left unpainted</u>			
3	Single gate size 1 000 x 2 000mm complete fixed to blockwork A : 2 B : 2 C : 5 D : 2 E : 2 F : 2 H : 0	No	15	
	<u>GALVANIZED STEEL BURGLAR BARS</u> <u>4,7mm x 19mm galvanised mild steel burglar bars welded to window frame over both opening and fixed sections of window horizontally</u>			
4	Bars at 150mm centres to suit window 0,6 x 0,6m high A : 0 B : 0 C : 0 D : 14 E : 14 F : 14 H : 0	m	43	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Metalwork NAIDU CONSULTING				

Item No			Quantity	Rate	Amount
5	Bars at 150mm centres to suit window 1,0 x 1,5m high A : 0 B : 62 C : 139 D : 0 E : 0 F : 0 H : 0	m	201		
6	Bars at 150mm centres to suit window 1,2 x 0,6m high A : 0 B : 0 C : 0 D : 7 E : 7 F : 7 H : 0	m	22		
7	Bars at 150mm centres to suit window 1,3 x 1,0m high A : 91 B : 0 C : 0 D : 0 E : 0 F : 0 H : 0	m	91		
<u>GALVANISED MILD STEEL POSTS, ETC</u>					
<u>Posts</u>					
8	76 x 76 x 3600mm High posts including base plates and slotted to suite beam A : 2 B : 2 C : 3 D : 0 E : 0 F : 0 H : 0	No	7		
<u>Sundries:</u>					
9	10 x 180mm Mild steel bolts and nuts A : 8 B : 8 C : 12 D : 0 E : 0 F : 0 H : 0	No	28		
<u>PROVISIONAL SUMS</u>					
10	Provide an amount of R120,000.00 (One Hundred and Twenty Thousand Rand) for the supply and install of one (1) smart interactive board (screen) to be installed in the team teaching or general multi-purpose classroom or standard classroom. A : 0.00 B : 0.00 C : 1.00 D : 0.00 E : 0.00 F : 0.00 H : 0.00	Item			120,000.00
11	Allow for profit and general attendance			%	
Carried to Collection				R	
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Metalwork NAIDU CONSULTING					

Item No		Quantity	Rate	Amount
12	Provide an amount of R10,000.00 (Ten Thousand Rand) for training to be given on the functioning of the smart interactive screen. A : 0.00 B : 0.00 C : 1.00 D : 0.00 E : 0.00 F : 0.00 H : 0.00	Item		10,000.00
13	Allow for profit and general attendance		%	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Metalwork NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 6

Metalwork

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Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 6

Metalwork

NAIDU CONSULTING

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 7 : PLASTERING</u>			
	Key Location Description			
	A 2 Classroom Block			
	B 1 Classroom & Admin Block			
	C 5 Classroom Block			
	D Staff Ablution			
	E Female Ablution			
	F Male Ablution			
	G Kitchen			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>PLASTERING</u>			
	<u>(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u>			
	<u>CEMENTITIOUS GROUT</u>			
	<u>Chip loose material away untill a dense uniform surface of concrete is obtained. Feathered edges shall be saw cut to form surfaces perpendicular to the concrete (minimum 20mm). All loose material and dust to be removed by water. The cavity shall then be filled with a non-shrink cementitious grout</u>			
1	30mm Screed on floors in patches A : 56 B : 55 C : 0 D : 0 E : 0 F : 0 H : 0	m2	112	
	<u>GRANOLITHIC</u>			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 7 Plastering NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Prepare and apply bonding liquid prior to laying granolithic finish composed of one part cement, two and a half parts concrete sand and three and a half parts granite or other approved hard stone chippings including filling in holes</u>			
2	30mm Screed on previously screeded floors A : 0 B : 0 C : 113 D : 0 E : 0 F : 0 H : 0	m2	113	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster trowelled smooth on brickwork</u>			
3	On walls in small areas A : 0 B : 13 C : 0 D : 0 E : 0 F : 0 H : 0	m2	13	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster trowelled smooth on brickwork</u>			
4	On walls in small areas A : 0 B : 14 C : 10 D : 0 E : 0 F : 0 H : 0	m2	24	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 7 Plastering NAIDU CONSULTING				

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New Works to Existing Structures (Provisional)

Bill No. 7

Plastering

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New Works to Existing Structures (Provisional)

Bill No. 7

Plastering

NAIDU CONSULTING

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 8 : PLUMBING AND DRAINAGE</u>			
	Key	Location Description		
	A	2 Classroom Block		
	B	1 Classroom & Admin Block		
	C	5 Classroom Block		
	D	Staff Ablution		
	E	Female Ablution		
	F	Male Ablution		
	G	Kitchen		
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>			
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium</u>			
1	150 x 150mm Box gutters with white baked enamel finish fixed with concealed brackets	m	176	
	A : 32 B : 32 C : 75 D : 11			
	E : 14 F : 11 H : 0			
2	100 x 76mm Fluted aluminium downpipes with white baked enamel finish	m	56	
	A : 8 B : 8 C : 16 D : 8			
	E : 8 F : 8 H : 0			
	Carried to Collection			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 8			
	Plumbing & Drainage			
	NAIDU CONSULTING			

Item No			Quantity	Rate	Amount
3	Extra over eaves gutter for stopped end A : 4 B : 4 C : 8 D : 4 E : 4 F : 4 H : 0	No	28		
4	Extra over eaves gutter for drop box suitable for 150 x 150mm box gutter A : 2 B : 2 C : 4 D : 2 E : 2 F : 2 H : 0	No	14		
5	Extra over rainwater downpipe for bends A : 4 B : 4 C : 8 D : 4 E : 4 F : 4 H : 0	No	28		
6	Extra over rainwater downpipe for shoes A : 0 B : 0 C : 1 D : 0 E : 0 F : 0 H : 0	No	1		
<u>Polyethylene Water Storage Tank</u>					
7	5 000 Litre Vertical polyethylene water storage tank complete with access lid, fitted with and including 20mm ball valve and 90 deg HDPE spout suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire looped through 15mm hose enclosed steel link chain and secured to each corner of tank stand with a Y10 reinforcing rod twice bent and cast into concrete A : 2 B : 0 C : 6 D : 0 E : 0 F : 0 H : 0	No	8		
8	2 500 Litre Vertical polyethylene water storage tank complete with access lid, fitted with and including 20mm ball valve and 90 deg HDPE spout suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire looped through 15mm hose enclosed steel link chain and secured to each corner of tank stand with a Y10 reinforcing rod twice bent and cast into concrete A : 0 B : 2 C : 0 D : 1 E : 1 F : 1 H : 0	No	5		
Carried to Collection					R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 8 Plumbing & Drainage NAIDU CONSULTING					

Item No		Quantity	Rate	Amount
9	Hole through top of tank lid for 100 x 75mm diameter rainwater pipe A : 2 B : 2 C : 6 D : 1 E : 1 F : 1 H : 0	No 13		
	<u>SANITARY FITTINGS</u>			
	<u>Approved</u>			
10	Approved seat to suit pedestal type pit latrine fitting A : 0 B : 0 C : 0 D : 4 E : 8 F : 4 H : 0	No 16		
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
11	50mm PVC pipe A : 0 B : 0 C : 0 D : 0 E : 0 F : 8 H : 0	m 8		
12	110mm Vent pipes A : 0 B : 0 C : 0 D : 14 E : 28 F : 14 H : 0	m 56		
	<u>Extra over uPVC pipes for fittings</u>			
13	50mm IE bend A : 0 B : 0 C : 0 D : 0 E : 0 F : 10 H : 0	No 10		
14	50mm IE junction A : 0 B : 0 C : 0 D : 0 E : 0 F : 3 H : 0	No 3		
15	110mm Vent valve with and including shade cloth protection over opening A : 0 B : 0 C : 0 D : 4 E : 8 F : 4 H : 0	No 16		
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 8 Plumbing & Drainage NAIDU CONSULTING			

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 8

Plumbing & Drainage

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New Works to Existing Structures (Provisional)

Bill No. 8

Plumbing & Drainage

NAIDU CONSULTING

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 9 : GLAZING</u>			
	Key	Location Description		
	A	2 Classroom Block		
	B	1 Classroom & Admin Block		
	C	5 Classroom Block		
	D	Staff Ablution		
	E	Female Ablution		
	F	Male Ablution		
	G	Kitchen		
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>GLAZING</u>			
	<u>(CPAP WORK GROUP NO. 150 UNLESS OTHERWISE STATED)</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6mm toughened clear safety glass secured into galvanized window with a compatible UV resistant sealant</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	19	
	A : 2 B : 2 C : 10 D : 1			
	E : 2 F : 2 H : 0			
2	Issue of Glazing Certificate.	Item		
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 9			
	Glazing			
	NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 10 : PAINTWORK</u>			
	Key	Location Description		
	A	2 Classroom Block		
	B	1 Classroom & Admin Block		
	C	5 Classroom Block		
	D	Staff Ablution		
	E	Female Ablution		
	F	Male Ablution		
	G	Kitchen		
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Trade Names</u>			
	Where trade names are specified it will read "or equal approved"			
	<u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u>			
	<u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat gypsum and plaster primer and two coats approved washable emulsion paint for interior use</u>			
1	On internal walls	m2	870	
	A : 0 B : 199 C : 481 D : 0			
	E : 190 F : 0 H : 0			
	Carried to Collection			R
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 10 Paintwork NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat gypsum and plaster primer and two coats approved washable emulsion paint for interior use</u>			
2	On internal walls A : 0 B : 0 C : 0 D : 45 E : 123 F : 86 H : 0	m2	255	
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats approved washable emulsion paint for external use</u>			
3	On external walls A : 0 B : 122 C : 278 D : 0 E : 0 F : 0 H : 0	m2	400	
	<u>ON WOOD</u>			
	<u>Prepare, brush surface to remove all loose contaminants, stain and apply one coat woodcare pretreatment, and three coats woodcare wood preservative approved preservative strictly in accordance with the Manufacturer's instructions</u>			
4	On doors A : 0 B : 0 C : 0 D : 17 E : 26 F : 17 H : 0	m2	59	
	<u>Prepare and brush surface to remove all loose contaminants and apply two coats approved carbolineum anti-corrosive coal tar paint</u>			
5	On roof timbers at eaves and verges A : 48 B : 48 C : 105 D : 10 E : 12 F : 10 H : 0	m2	233	
	<u>ON METAL</u>			
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 10 Paintwork NAIDU CONSULTING				

Item No		Quantity	Rate	Amount
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat galvanized iron primer, one universal undercoat and two coats super enamel paint</u>			
6	On window frames A : 40 B : 40 C : 88 D : 0 E : 0 F : 0 H : 0	m2	168	
	<u>PAINTWORK TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat gypsum and plaster primer and two coats approved emulsion paint for interior use</u>			
7	On internal walls A : 0 B : 16 C : 0 D : 0 E : 0 F : 0 H : 0	m2	16	
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats approved washable emulsion paint for external use</u>			
8	On external walls A : 0 B : 16 C : 0 D : 0 E : 0 F : 0 H : 0	m2	16	
	<u>ON FIBRE CEMENT</u>			
	<u>Prepare and brush surface to remove loose contaminants and apply one coat professional gypsum & plaster primer , and two coats approved emulsion paint</u>			
9	On fascias & barge boards A : 9 B : 9 C : 23 D : 3 E : 4 F : 3 H : 0	m2	51	
	<u>ON PLASTER BOARD</u>			
	Carried to Collection			
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 10			
	Paintwork			
	NAIDU CONSULTING			
			R	

Item No		Quantity	Rate	Amount
	<u>Prepare, brush surface to remove all loose contaminants and apply one coat approved alkali resistant primer, and two coats approved super acrylic PVA Colour: White</u>			
10	On ceilings and cornices A : 117 B : 117 C : 293 D : 0 E : 0 F : 0 H : 0	m2	528	
	<u>ON WOOD</u>			
	<u>Prepare and apply two coats wood primer</u>			
11	On backs of frames, linings, etc not exceeding 300mm wide A : 5 B : 5 C : 5 D : 31 E : 51 F : 31 H : 0	m	128	
	<u>Prepare, brush surface to remove all loose contaminants, stain and apply one coat woodcare pretreatment , and three coats woodcare wood Preservative approved preservative strictly in accordance with the Manufacturer's instructions</u>			
12	On doors A : 7 B : 7 C : 17 D : 3 E : 7 F : 3 H : 0	m2	43	
	<u>ON METAL</u>			
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat galvanized iron primer, one universal undercoat and two coats super enamel paint</u>			
13	On door frames A : 3 B : 3 C : 7 D : 1 E : 3 F : 1 H : 0	m2	19	
14	On window frames A : 0 B : 0 C : 5 D : 0 E : 0 F : 0 H : 0	m2	5	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 10 Paintwork NAIDU CONSULTING				

Section No. 3

New Works to Existing Structures (Provisional)

Bill No. 10

Paintwork

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New Works to Existing Structures (Provisional)

Bill No. 10

Paintwork

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Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL No. 1 : EARTHWORKS</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Nature of material to be excavated:</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".			
<u>Carting away of excavated material:</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.			
Carried to Collection			R
Section No. 4 SNP Kitchen Bill No. 1 Earthworks NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Dewatering of excavations:</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water <u>Density testing on filling:</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally. <u>Imported fill:</u> "Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively" <u>EXCAVATION OTHER THAN BULK</u> <u>Excavation in earth not exceeding 2m deep:</u> 1 Trenches. m3 34 2 Reduced levels under floors. m3 16 <u>Extra over trench and hole excavations in earth for excavation in:</u> 3 Soft rock. m3 4 4 Hard rock. m3 2 <u>Extra over all excavations for carting away:</u> 5 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. m3 16			
	Carried to Collection		R	
	Section No. 4 SNP Kitchen Bill No. 1 Earthworks NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Risk of collapse of excavations:</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	96	
	<u>Keeping excavations free of water:</u>			
7	Keeping excavations free from mud and all water including subterranean sources.	Item		
	<u>EARTH FILLING, ETC.</u>			
	<u>Earth filling (G8 material) supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
8	Backfilling to trenches, holes, etc.	m3	18	
	<u>Earth filling (G5 material) supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
9	Under floors, steps, pavings, footings, etc.	m3	12	
	<u>Earth filling (G7 material) supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
10	Under floors, steps, pavings, footings, etc.	m3	8	
	<u>Coarse river sand filling supplied by the contractor:</u>			
11	Under floors etc. (Provisional).	m3	2	
	<u>Compaction of surfaces:</u>			
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	80	
	<u>Prescribed density tests on filling:</u>			
13	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	4	
Carried to Collection				R
Section No. 4 SNP Kitchen Bill No. 1 Earthworks NAIDU CONSULTING				

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SNP Kitchen

Bill No. 1

Earthworks

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SNP Kitchen

Bill No. 1

Earthworks

NAIDU CONSULTING

Item No		Quantity	Rate	Amount
	<u>SECTION No. 4</u>			
	<u>BILL No. 2 : CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
	<u>Cost of tests:</u>			
	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 Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).			
	<u>Formwork:</u>			
	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.			
	Carried to Collection		R	
	Section No. 4 SNP Kitchen Bill No. 2 Concrete, Formwork and Reinforcement NAIDU CONSULTING			

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Item No		Quantity	Rate	Amount
	<u>Test blocks:</u>			
5	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	5	
	<u>FINISHING TOP SURFACE OF CONCRETE</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>			
6	Surface beds, slabs, etc	m2	80	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	<u>Rough Formwork to Sides:</u>			
7	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	17	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>			
8	12mm Joints not exceeding 300mm high (Provisional).	m	7	
	<u>Saw cut joints:</u>			
9	6 x 40mm Saw cut joints in top of concrete.	m	7	
	<u>REINFORCEMENT (PROVISIONAL)</u>			
10	Steel reinforcement to structural concrete work.	t	0.80	
	<u>Fabric reinforcement:</u>			
11	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	80	
	<u>PRECAST CONCRETE</u>			
Carried to Collection				R
Section No. 4				
SNP Kitchen				
Bill No. 2				
Concrete, Formwork and Reinforcement				
NAIDU CONSULTING				

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Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL No. 3 : MASONRY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>(CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Bricks</u>			
Clay & concrete bricks are to comply with N.H.B.R.C Part 2, Section 3			
<u>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.			
Carried to Collection			
			R
Section No. 4 SNP Kitchen Bill No. 3 Masonry NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Pointing</u> All pointing of exposed joints to be concave <u>Samples</u> Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa <u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other <u>Blockwork</u> Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole			
	Carried to Collection		R	
	Section No. 4 SNP Kitchen Bill No. 3 Masonry NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Standard complementary blocks</u>			
	Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary			
	<u>BRICKWORK IN FOUNDATIONS</u>			
	<u>(PROVISIONAL)</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
1	Half brick walls	m2	7	
2	One brick walls.	m2	29	
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u>			
3	Half brick walls	m2	21	
4	One brick walls.	m2	75	
	<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>			
	<u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats bitumen emulsion waterproofing coating:</u>			
5	To walls (Provisional).	m2	75	
	<u>Brickwork reinforcement:</u>			
6	115 mm Wide reinforcement built in horizontally.	m	83	
7	Ditto, but in foundations (Provisional).	m	28	
8	230mm Wide reinforcement built in horizontally.	m	296	
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Item No			Quantity	Rate	Amount
9	Ditto, but in foundations (Provisional).	m	114		
	<u>Cramps, ties, etc:</u>				
10	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	20		
	<u>Air bricks etc:</u>				
11	229 x 152mm terracotta clay vermin proof air brick	No	6		
	<u>FACE BRICKWORK</u>				
	<u>Allow for the prime cost amount of R6000.00 (six thousand rand excluding VAT) net per thousand for external face bricks, supplied and delivered to site and add for storage, building in pointing with square recessed horizontal and vertical joints waste and profit:</u>				
12	Extra over brickwork for face brickwork externally.	m2	75		
13	Ditto, but in foundations (Provisional).	m2	12		
14	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar.	m2	14		
15	One brickwall pointed on both sides.	m2	27		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (PC = R 6 000/1 000 including delivery) pointed with recessed joints on all exposed faces</u>				
16	230mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	7		
17	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	4		
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Item No		Quantity	Rate	Amount
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m28		
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Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL No. 5 : ROOF COVERINGS</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Sheeting</u>			
The roof sheeting shall be 0,55mm White ZincAl or equal approved IBR 686 profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Z275 galvanized steel complying with ISQ 550 (3T). A certificate verifying compliance shall be issued by the manufacturer.			
<u>Finish for AZ150 Zincalume</u>			
The profile shall be supplied with a paint finish G550 consisting of a full top coat "Colourplus" or equal approved silicone modified polyester Colour: To match existing on one side and Cool Grey backing to other			
<u>Assembly</u>			
The AZ150 ZincAl sheets shall be fixed to every purlin strictly in accordance with manufacturer's specifications. Holes through sheeting are to be drilled and NO punching of holes are allowed. 8mm Diameter x 75mm long fixing screws with 19mm diameter washer and rubber gasket are to be used. Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced			
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Item No		Quantity	Rate	Amount
	<u>Flashings</u> Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side <u>Quality Assurance</u> The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System <u>Guarantee</u> AZ150 ZincAl or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials and a five year written guarantee on workmanship and water-tightness after final inspection of the roofs, by the manufacturer. <u>Safety</u> The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity			
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Handling and Storage

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

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Item No	Quantity	Rate	Amount
<u>Protrusion through Sheeted Surfaces</u>			
Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation			
<u>Cleaning of Roofs, etc</u>			
All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc			
<u>ROOF COVERING</u>			
<u>(CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u>			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
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Item No		Quantity	Rate	Amount
	<u>0,55mm Zinalume IBR 686 sheeting and accessories with Colorplus finish (colour : Standard colour on one side and CoolGrey backing to other), in long lengths fixed using Class 3 Climaseal screws (8mm diameter with 26mm diameter washer and rubber gasket) as per manufacturer's recommendations for coastal areas to 50 x 76mm treated SA Pine purlins @ 1 100mm centres on Sisalation elsewhere measured</u>			
1	Roof covering with pitch not exceeding 25 degrees.	m2	102	
2	Ridge covering 650mm girth, screwed through sheet to purlins	m	11	
3	Color coded metal angle flashing made from the same roofing sheet material and the same color with size 200 x 100mm and inner drip edges as well as outer drip edge, bent at 2.5 degrees respectively, fixed to fascia through the roof sheeting to the purlins.	m	22	
4	Moulded narrow and broad rib polyethelene filler blocks	m	22	
5	Moulded Sondor Metal Polyclosures for IBR roof sheeting profile color coated.	m	44	
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Sisalation 420" or equal approved heavy industrial grade aluminium foil based insulation</u>			
6	Insulation laid taut over rafters (at approximately 1 200mm centres) and fixed concurrent with purlins, etc including galvanised steel straining wires	m2	87	
7	Allow for insulation joints to be taped with approved Sisalation Duct tape	Item		
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Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL No. 6 : CARPENTRY & JOINERY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>CARPENTRY AND JOINERY</u>			
<u>(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>ROOFS ETC</u>			
<u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u>			
All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction			
TR1 & TR2 Certificates are to be issued for each Block before occupation may take place			
<u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u>			
NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES			
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Item No	Quantity	Rate	Amount
<u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u> These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".			
<u>NAILS</u> These shall be in accordance with SABS 820 : 1974			
<u>TRUSS CONSTRUCTION</u> The trusses shall be constructed to ensure the correct profile, overhangs and cambers All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint			
<u>TRUSS DESIGN</u> All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SABS Code of Practice for the Design of Timber Structures SABS 0163 and the Code of Practice for General Procedures and Loadings SABS 0160			
<u>TRUSS SPACING</u> The truss centres shall be less than or equal to that described in the Bills for each respective truss type			
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Item No		Quantity	Rate	Amount
	<u>DRAWINGS</u> <i>Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer</i> The following minimum information shall be supplied: * Details of the roof system with the positions of all trusses and beams clearly indicated * Bracing details * All truss details, including valley trusses where applicable, with the following clearly detailed:- - All member sizes and grades - Connector plate sizes for all truss joints. Code numbers are deemed sufficient * All connection and hold down details between trusses, girders, beams and supports * The type of roof covering, ceiling and any other loads taken into account in the design The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area <u>GENERAL</u> The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative			
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Item No	Quantity	Rate	Amount
<u>ERECTION</u> The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SABS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses" <u>TRUSS LOADING</u> The trusses shall be designed for: * Roof Cover: 0,55mm Metal roof sheeting * Max Purlin centres: 900mm * Ceilings: Plasterboard ceilings * Overhang: Min 600mm			
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Item No	Quantity	Rate	Amount
<u>TRUSSES</u>			
a. All the roof trusses to be at average 1 177mm centres and constructed for approximable 25deg pitch unless otherwise stated			
b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions			
c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut			
d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc.,but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured			
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Item No		Quantity	Rate	Amount
	<u>General:</u> The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc. The references given in the descriptions are to the respective types of fittings detailed on the Architect's drawings annexed to these Bills of Quantities for tender purposes. <u>Bulk Store</u>			
12	32mm thick formica faced Worktop open under Size 1094 mm x 600mm width and 850mm height with stainless steel supports	No	1	
13	Shelving 450 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 368mm centres.Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats all as per drawing no. 600 attached to these bills of quantities.	m	21	
	<u>Vegetable Storage</u>			
14	Floor cupboard Units "L Shaped" size 1480 x 450 x 850mm high and 2000 x 450 x 850mm high all with 32mm thick formica faced post-formed worktop, 22mm x 450mm laminated SA Pine shelving carcass , 69mm x 19mm Pine skirting ,with 4 no. drawers and including an overall 4 no. single hinged doors,	No	1	
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Item No		Quantity	Rate	Amount
15	Shelving 450 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 368mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats all as per drawing no. 600 attached to these bills of quantities.	m	12	
	<u>Equipment Storage</u>			
16	Floor cupboard Units "L Shaped" size 1520 x 450 x 850mm high and 2495 x 450 x 850mm high all with 32mm thick formica faced post-formed worktop, 22mm x 450mm laminated SA Pine shelving carcass , 69mm x 19mm Pine skirting ,with 6 no. drawers and including an overall 6 no. single hinged doors,	No	1	
17	Shelving 450 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 368mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats all as per drawing no. 600 attached to these bills of quantities.	m	12	
	<u>SKIRTINGS</u>			
	<u>Wrought meranti:</u>			
18	19 x 70mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	46	
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Carpentry and Joinery

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Carpentry and Joinery

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Item No	Quantity	Rate	Amount
<u>SECTION No. 4</u>			
<u>BILL No. 7 : CEILINGS, PARTITIONS & ACCESS FLOORING</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
<u>Trade Names</u>			
Where trade names are specified equal materials approved by the Principal Agent may be used			
<u>(CPAP WORK GROUP NO. 128 UNLESS OTHERWISE STATED)</u>			
<u>NAILED UP CEILINGS</u>			
<u>Approved gypsum plasterboard with taped & skimmed joints</u>			
1	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres in both directions, fixed to 38 x 38mm vertical timber supports bolted to truss, not exceeding 1m below timber trusses	m2	34
2	Extra over ceiling for 600 x 600mm trap door	No	2
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Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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Bill No. 8

Floor Coverings, Wall Linings, Etc.

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Floor Coverings, Wall Linings, Etc.

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 4</u> <u>BILL No. 9 : IRONMONGERY</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates <u>SUPPLEMENTARY PREAMBLES</u> <u>Keys/Locks</u> Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys <u>Trade Names</u> Where trade names are specified other ironmongery approved by the Principal Agent may be used <u>Fixing</u> Fixing of ironmongery is deemed to be fixed to timber unless otherwise described <u>IRONMONGERY</u> <u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u> <u>HINGES, BOLTS, ETC</u> <u>Approved</u>			
1	150mm Stainless steel cabin hook	No	5	
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Item No			Quantity	Rate	Amount
	<u>LOCKS</u>				
	<u>Approved</u>				
2	Three lever mortice lockset and furniture to external door	No	5		
	<u>HANDLES</u>				
	<u>Approved</u>				
3	Set of two 111mm pull handles fixed back to back	No	5		
	<u>SUNDRIES</u>				
	<u>Approved</u>				
4	38mm Diameter black rubber stop, plugged and screwed to concrete floor	No	5		
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>"Solid"</u>				
5	800mm x 200mm high x 2mm aluminium screw mounted kick plate.	No	10		
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Bill No. 9

Ironmongery

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Item No		Quantity	Rate	Amount
	<u>1,2mm thick galvanised pressed steel jamb lining with double rebate, base ties, 1,5 pairs 102mm steel butt hinges, adjustable CP striking plate, rubber buffers and fixing lugs. to suit half brick wall:</u>			
3	Frame for door 813 x 2032mm high.	No 2		
	<u>1,2mm thick galvanised pressed steel jamb lining with double rebate, base ties, 1,5 pairs 102mm steel butt hinges, adjustable CP striking plate, rubber buffers and fixing lugs. to suit one brick wall:</u>			
4	Frame for door 813 x 2032mm high.	No 3		
	<u>ROLLER SHUTTER DOORS</u>			
	<u>Steel roller shutter doors:</u>			
	<u>Note: The contractor is to check on site measurements before placing of order.</u>			
5	Push-up hot dip galvanised steel roller shutter door to suit opening size 2,500 x 1,115mm high, with overhead box, with 0.8mm thick slats, 75mm wide side guides and two barrel bolts including extruded aluminium T-bar formed of 40 x 40mm angle iron, with rubber seal.	No 1		
	<u>HOT DIP GALVANIZED STEEL GATES</u>			
	<u>Note: The contractor is to check on site measurements before placing of order.</u>			
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Metalwork				
NAIDU CONSULTING				

Item No			Quantity	Rate	Amount
	<u>Gate constructed from hot-dipped galvanized mild steel, consisting of 40 x 30 x 2mm thick rectangular hollow section to outer frame and horizontal rails. Infill to be 8 No. continuous 10mm diameter galvanised mild steel rods passing through and welded to horizontal rails and welded to outer frame. Lock housing to be formed of (2 Off) 10 x 180 x 3mm galvanised mild steel plates welded to finish flush with each face of the gate and is to have the necessary cut-outs for the lock deadbolt and Profile cylinder. Frame stile to hinge side to be 30 x 30 x 2mm thick galvanised mild steel hollow square section 2m long, bolted to wall with (4 Off) expansion bolts. 30 x 30 x 2mm thick galvanised mild steel hollow square section 260mm long, twice bolted to wall as lock keep. End caps to be provided to both the frame stile and the lock keep. 1,5 pairs galvanised mild steel pintle hinges welded to gate and frame stile. Pin of top hinge to be inverted. (1 Off) Profile Cylinder Gate Lock with housing and 2 x double cylinder. (1 Off) cabin hook and eye with cabin hook screwed to 100 x 70 x 32mm Meranti block plugged and screwed to wall, and eye welded to leading edge of gate outer frame Gate is to be cleaned down on completion and left unpainted</u>				
6	Security Gate size 1 000 x 2 100mm high.	No	4		
	<u>GALVANISED MILD STEEL POSTS, ETC</u>				
	<u>Posts</u>				
7	100 x 3 x 3600mm High posts including base plates and slotted to suite beam	No	8		
	<u>Sundries:</u>				
8	10 x 180mm Mild steel bolts and nuts	kg	3		
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Metalwork

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SNP Kitchen

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Metalwork

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Item No		Quantity	Rate	Amount
<u>SECTION No. 4</u>				
<u>BILL No. 12 : PLUMBING AND DRAINAGE</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
<u>PLUMBING AND DRAINAGE</u>				
<u>(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>				
<u>RAINWATER DISPOSAL:</u>				
<u>Seamless aluminium</u>				
1	150 x 150mm Box gutters with white baked enamel finish fixed with concealed brackets	m	22	
2	Extra eaves gutter for stopped end.	No	4	
3	Extra over eaves gutter for outlet for 100mm diameter downpipe	No	5	
4	100 x 76mm Fluted aluminium downpipes with white baked enamel finish	m	14	
5	Extra over rainwater downpipe for bend	No	5	
6	Extra over eaves gutter for drop box suitable for 150 x 150mm box gutter	No	5	
<u>SANITARY FITTINGS</u>				
Carried to Collection				R
Section No. 4 SNP Kitchen Bill No. 12 Plumbing and Drainage NAIDU CONSULTING				

Item No		Quantity	Rate	Amount
	<u>Stainless steel Fittings:</u>			
7	Double Basin Wash Troughs. Unit to be manufactured from approved Stainless Steel, 1,2 mm gauge. With pressed bowls 500 x 450 x 240 mm deep (43 litres) with a 40 mm waste outlet. Unit to be fixed to wall on two 25 mm square mild steel galvanised	No	1	
	<u>WASTE UNIONS ETC</u>			
	<u>Waste unions etc:</u>			
8	32mm Code 301 chrome plated basin waste union.	No	3	
	<u>TRAPS ETC</u>			
	<u>Stainless steel Grease trap with 50mm horizontal inlet, size 500 x 400 x 300mm deep with large solid strainer basket with bottom draining cut-outs covered with the fine stainless steel mesh and 50mm waste outlet connected to waste pipe</u>			
9	50mm Stainless Steel grease trap	No	1	
	<u>Approved</u>			
10	40 x 50mm Deep seal P trap	No	3	
	<u>Stainless steel:</u>			
11	300 x 300 x 320mm floor drain with 100mm diameter outlet.	No	1	
	<u>Gratings, covers, etc</u>			
12	600 x 900mm x 93kg Cast iron single seal manhole cover and frame	No	2	
	<u>TAPS, VALVES, ETC</u>			
Carried to Collection				R
Section No. 4 SNP Kitchen Bill No. 12 Plumbing and Drainage NAIDU CONSULTING				

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Item No		Quantity	Rate	Amount
	<u>Fixing of pipes</u>			
	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			
	<u>Copper pipes chased in walls:</u>			
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the discription of pipe chased in walls.			
	<u>Reducing fittings:</u>			
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.			
	<u>Class 2 copper pipes:</u>			
21	15mm Pipe chased into brick walls.	m	18	
22	22mm Ditto.	m	12	
	<u>Extra over class 2 copper pipes for capillary fittings:</u>			
23	15mm Fittings.	No	4	
24	22mm Fittings.	No	5	
	<u>FIRE APPLIANCES ETC.</u>			
25	9kg Dry chemical fire extinguisher with mounting bracket fixed to and including 19 x 144 x 500mm high wrought meranti backing board, four times bolted to wall with M8 expansion bolts.	No	1	
	Carried to Collection		R	
	Section No. 4 SNP Kitchen Bill No. 12 Plumbing and Drainage NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Polyethylene Water Storage Tank</u>			
26	5 000 Litre Vertical polyethylene water storage tank complete with access lid and fitted with and including 20mm ball valve and 90 deg HDPE spout suitable for padlocking and setting in position on concrete tank stand (elsewhere measured) and tying down with 4mm diameter galvanised wire looped through 15mm hose enclosed steel link chain and secured to each corner of tank stand with a Y10 reinforcing rod twice bent and cast into concrete	No	1	
27	Hole through top of tank lid for 75mm diameter rainwater pipe	No	1	
Carried to Collection				R
Section No. 4 SNP Kitchen Bill No. 12 Plumbing and Drainage NAIDU CONSULTING				

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SNP Kitchen

Bill No. 12

Plumbing and Drainage

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SNP Kitchen

Bill No. 12

Plumbing and Drainage

NAIDU CONSULTING

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 4</u>			
	<u>BILL No. 14 : PAINTWORK</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Trade Names</u>			
	Where trade names are specified it will read "or equal approved"			
	<u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u>			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat plaster primer and two coats washable emulsion paint for interior use</u>			
1	On internal walls.	m2	118	
	<u>ON PLASTERBOARD</u>			
	<u>Prepare, brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats approved super acrylic PVA Colour: White</u>			
2	On ceilings and cornices.	m2	34	
	<u>ON WOOD</u>			
	Carried to Collection		R	
	Section No. 4 SNP Kitchen Bill No. 14 Paintwork NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Prepare, brush surface to remove all loose contaminants, stain and apply one coat woodcare pretreatment, and three coats woodcare wood preservative approved preservative strictly in accordance with the Manufacturer's instructions</u>			
3	On doors	m2	18	
	<u>Prepare and apply two coats carbolanium on:</u>			
4	On exposed timbers.	m2	10	
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush surface to remove loose contaminants and apply one coat professional gypsum & plaster primer, and two coats approved emulsion paint</u>			
5	On fascias and barge boards.	m2	13	
	<u>ON BRICK SURFACES</u>			
	<u>Clean down with spirits of salts solution and apply two coats silicone-based brick dressing on:</u>			
6	On facings (Internally).	m2	27	
7	On facings (Externally).	m2	75	
Carried to Collection				R
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Bill No. 14				
Paintwork				
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SNP Kitchen

Bill No. 14

Paintwork

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SNP Kitchen

Bill No. 14

Paintwork

NAIDU CONSULTING

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 5</u>			
	<u>BILL No. 3 : V DRAINS & APRONS</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Break up and Remove</u>			
1	100mm Thick surface bed in walkways	m2	24	
	<u>SURFACE DRAINAGE</u>			
	<u>Precast or in-situ Ref 193 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 3m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar</u>			
2	V- shaped concrete channel 600mm wide and 100mm thick concrete lining with wood finish on exposed surfaces laid to falls in panels not exceeding 1.80m long, with 12mm softboard movement joints including all excavations, formwork, Mesh ref 193, cart away as per drawing	m	390	
3	V- shaped concrete channel 900mm wide and 100mm thick concrete lining with wood finish on exposed surfaces laid to falls in panels not exceeding 1.80m long, with 12mm soft board movement joints including all excavations, formwork, Mesh ref 193, cart away as per drawing	m	147	
4	Extra for 600mm angle	No	15	
5	Extra for 600mm T-intersection	No	5	
	Carried to Collection		R	
	Section No. 5 Siteworks (Provisional) Bill No. 3 V Drains & Aprons NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
6	Extra for forming 150mm thick 600mm wide spreader fanning out to 2 600mm width at furthest end with cement grouted stone pitching cast in ass diffusers including working off concrete to a smooth finish	No 5		
7	10mm Thick polystyrene joint forming material in expansion joint between concrete and concrete surfaces in narrow widths not exceeding 300mm high	m 366		
8	Rake out 10mm wide expansion joint material for a depth of 10mm and point with UV and chemical resistant polysulphide sealant	m 366		
<u>SOIL POISONING</u>				
<u>Soil insecticide inclusive of a written guarantee</u>				
9	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2 366		
<u>CONCRETE APRONS AND CLASS VERANDAH WALKWAYS</u>				
<u>EARTHWORKS</u>				
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
10	Clear the area to be paved of all grass, roots, rubbish, etc.	m2 41		
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
11	Trenches	m3 12		
<u>EARTH FILLING, ETC.</u>				
Carried to Collection				R
Section No. 5 Siteworks (Provisional) Bill No. 3 V Drains & Aprons NAIDU CONSULTING				

Item No		Quantity	Rate	Amount
	<u>Coarse river sand filling supplied by the contractor:</u>			
12	Under floors etc. (Provisional).	m3	3	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 97% Mod AASHTO density</u>			
13	Backfilling to trenches, holes	m3	14	
	<u>COMPACTION</u>			
	<u>Compaction of surfaces</u>			
14	Compaction of ground surface under pavings etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	85	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide inclusive of a written guarantee</u>			
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	85	
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
16	Strip footings	m3	12	
	<u>REINFORCED CONCRETE</u>			
	<u>20MPa/19mm Concrete</u>			
17	Surface beds cast in panels in walkways	m3	12	
Carried to Collection				R
Section No. 5 Siteworks (Provisional) Bill No. 3 V Drains & Aprons NAIDU CONSULTING				

Item No		Quantity	Rate	Amount
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete with a woodfloat finish</u>			
18	Surface beds, slabs, etc	m2	85	
	<u>TEST BLOCKS</u>			
19	Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith	No	1	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	196	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with approved softboard between vertical concrete surfaces</u>			
21	10mm Joints not exceeding 300mm high	m	11	
	<u>STEEL REINFORCEMENT (PROVISIONAL)</u>			
	<u>Mesh reinforcement</u>			
22	Steel mesh reinforcement reference No. 193 in concrete slabs, etc. including all laps, bending, cutting, etc. (Measured net).	m2	43	
	<u>BLOCKWORK</u>			
	<u>3,5MPa Cement blocks in class II mortar</u>			
23	M140 block walls	m2	65	
	Carried to Collection			
	Section No. 5 Siteworks (Provisional) Bill No. 3 V Drains & Aprons NAIDU CONSULTING			
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Item No		Quantity	Rate	Amount
	<u>BRICKWORK SUNDRIES</u>			
	<u>Galvanized brickwork reinforcement</u>			
24	75mm Wide reinforcement built in horizontally	m	148	
	<u>WATERPROOFING</u>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 250 micron USB Green waterproof sheeting sealed at laps with Pressure Sensitive Tape</u>			
25	Under surface beds	m2	43	
	<u>JOINT SEALANTS ETC</u>			
	<u>SANS approved two-part grey polysulphide sealing compound (UV and chemical resistant) including backing chord, bond breaker, primer, etc</u>			
26	10 x 10mm In expansion joints between brickwork & concrete including raking out expansion joint filler as necessary	m	11	
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>1:5 Cement plaster screeds wood floated on concrete</u>			
27	Average 25mm thick on floors to falls	m2	43	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork:</u>			
28	On walls.	m2	30	
	<u>PAINTWORK TO NEW WORK</u>			
Carried to Collection				R
Section No. 5 Siteworks (Provisional) Bill No. 3 V Drains & Aprons NAIDU CONSULTING				

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Section No. 5

Siteworks (Provisional)

Bill No. 3

V Drains & Aprons

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Siteworks (Provisional)

Bill No. 3

V Drains & Aprons

NAIDU CONSULTING

Item No	Quantity	Rate	Amount
<u>SECTION No. 5</u>			
<u>BILL No. 4 : TANK STANDS</u>			
<u>(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	38
<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	22
<u>Risk of collapse of excavations</u>			
3	Sides of excavations not exceeding 1,5m deep	m2	115
<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 97% Mod AASHTO density</u>			
5	Backfilling to trenches, holes	m3	18
<u>Earth filling (G7 material) supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
6	Under floors, steps, pavings, etc	m3	6
Carried to Collection			R
Section No. 5 Siteworks (Provisional) Bill No. 4 Tank Stand NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	<u>Compaction of surfaces</u>			
7	Compaction of ground surface under pavings etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	93	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide inclusive of a written guarantee</u>			
8	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	210	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
9	Strip footings	m3	13	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm Concrete</u>			
10	Surface beds cast in panels	m3	6	
Carried to Collection				R
Section No. 5 Siteworks (Provisional) Bill No. 4 Tank Stand NAIDU CONSULTING				

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Item No		Quantity	Rate	Amount
	<u>BRICKWORK</u>			
	(CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
14	One brick walls in foundations.	m2	45	
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u>			
15	One brick walls in superstructure.	m2	40	
	<u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:</u>			
16	To walls (Provisional).	m2	85	
	<u>Brickwork reinforcement:</u>			
17	150mm Wide reinforcement built in horizontally.	m	385	
	<u>FACE BRICKWORK</u>			
	<u>Approved face bricks in stretcher bond with ruled joints and perpends externally:</u>			
18	Extra over brickwork for face brickwork externally.	m2	40	
	<u>Brick-on-edge header course copings, sills, etc, of approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>			
19	230mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	77	
	<u>WATERPROOFING</u>			
	Carried to Collection		R	
	Section No. 5 Siteworks (Provisional) Bill No. 4 Tank Stand NAIDU CONSULTING			

Item No		Quantity	Rate	Amount
	DAMPPROOFING OF WALLS AND FLOORS			
	<u>One layer of 250 micron USB GREEN waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:</u>			
20	Under surface beds.	m2	93	
	<u>PLUMBING AND DRAINAGE</u>			
	<u>METALWORK</u>			
	<u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u>			
	<u>Sundry items</u>			
21	30mm Approved brass padlock	No	13	
22	400mm Long x 50mm wide x 3mm thick hot dipped galvanized three times holed steel plate twice bolted to concrete with and including 8mm masonry anchors	No	13	
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>			
	<u>PVC</u>			
23	20mm PVC sleeve 365mm long cast in concrete for water pipes (elsewhere)	No	13	
	<u>Polycop</u>			
24	15mm Pipe fixed to wall with and including proprietary brackets	m	9	
25	Extra on polycop piping for 15mm fittings	No	30	
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Tank Stand

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Bill No. 4

Tank Stand

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Section No. 5

Siteworks (Provisional)

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Item No			Quantity	Rate	Amount
	<u>SECTION No. 6</u>				
	<u>BILL No. 1 : ELECTRICAL INSTALLATION (PROVISIONAL)</u>				
	<u>(CPAP WORK GROUP NO. 160 UNLESS OTHERWISE STATED)</u>				
	Tenderers are to note that the sum included in the amount column for this Section of the Bills of Quantities, should be the total of all priced items in the Electrical Installation, Bill of Quantities as attached.				
	Note: Tenderers are to include for all Preliminary and General costs of the electrical contractor, in the rates.				
	P8000 Galvanised Trunking C/W enclosure				
1	Supply	m	100		
2	Install	m	100		
	20mm Conduit				
3	Supply	m	900		
4	Install	m	900		
	20mm PVC round boxes complete with lids & mounting screws				
5	Supply	No	120		
6	Install	No	120		
	100 x 100 x 50 mm deep mounted for isolators / SSO units				
7	Supply	No	20		
8	Install	No	20		
	Carried to Collection				R
	Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING				

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No				Quantity	Rate	Amount
	100 x 50 x 50 mm deep mounted for light switches					
9		Supply	No	20		
10		Install	No	20		
	32mm bosal conduit					
11		Supply	No	100		
12		Install	No	100		
	1,5 mm ² (Live)					
13		Supply	m	520		
14		Install	m	520		
	1,5 mm ² (Neutral)					
15		Supply	m	520		
16		Install	m	520		
	2,5 mm ² (Earth)					
17		Supply	m	520		
18		Install	m	520		
	2.5 mm ² (Live)					
19		Supply	m	520		
20		Install	m	520		
	2.5 mm ² (Neutral)					
21		Supply	m	520		
22		Install	m	520		
	Carried to Collection					R
	Section No. 6					
	Electrical Installation					
	Bill No. 1					
	Electrical Installation					
	NAIDU CONSULTING					

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

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STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	Wall mounted die-cast aluminium body with glass diffuser. IP 65, Corrosion and vandal resistant luminaire, complete with 2 x CFL lamp, electronic control gear and all necessary accessories. All external bolts to be stainless steel. Minimum 2400 lm.2 x 11W Cool White. Colour black or as per Architect				
33	Supply	No	26		
34	Install	No	26		
	TYPE C				
	Ceiling/Wall mounted high pressure die-cast aluminium base with opal high-impact acrylic diffuser. Minimum IP 65, Corrosion and vandal resistant luminaire complete with 2x CFL lamps, electronic control gear and all necessary accessories. All external bolts to be stainless steel. Minimum 2400lm.2 x 11W Cool White. Colour black or as per Architect				
35	Supply	No	3		
36	Install	No	3		
	230V, 11W ES/BC Compact fluorescent lamps colour cool white				
37	Supply	No	4		
38	Install	No	4		
	230V, 1500mm T5 fluorescent tubes colour cool white				
39	Supply	No	4		
40	Install	No	4		
	Administration Block Alarm System including connection cables				
	Carried to Collection				R
	Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING				

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No				Quantity	Rate	Amount
41		Supply	No	1		
42		Install	No	1		
	200W Low noise wall mounted electric fan					
43		Supply	No	3		
44		Install	No	3		
	Telephone Distribution Board					
45		Supply	No	1		
46		Install	No	1		
	School Siren and Push Button with Latch in Timer					
47		Supply	No	1		
48		Install	No	1		
	50mm PVC Sleeve					
49		Supply	No	20		
50		Install	No	20		
	2-Compartment galvanised and painted power skirting. (Grey)					
51		Supply	m	25		
52		Install	m	25		
	Power skirting inside and Outside corners					
53		Supply	m	25		
54		Install	m	25		
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Electrical Installation						
NAIDU CONSULTING						

STORM DAMAGED SCHOOLS - PHASE 14

ZULULAND REGION : CLUSTER 21

KHISHWA PRIMARY SCHOOL

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STORM DAMAGED SCHOOLS - PHASE 14

ZULULAND REGION : CLUSTER 21

KHISHWA PRIMARY SCHOOL

Item No				Quantity	Rate	Amount
	Class II 10kA single pole SPD unit					
69		Supply	No	4		
70		Install	No	4		
	Single Lever, one way switch					
71		Supply	No	27		
72		Install	No	27		
	IP65 Single lever switch					
73		Supply	No	1		
74		Install	No	1		
	Two Lever one way switch					
75		Supply	No	2		
76		Install	No	2		
	16 Amp 3 pin double SSO ZA Plug (White)					
77		Supply	No	20		
78		Install	No	20		
	16 Amp 3 pin Single (White)					
79		Supply	No	10		
80		Install	No	10		
	30 Amp 2 pole 230V					
81		Supply	No	1		
82		Install	No	1		
Carried to Collection					R	
Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING						

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	Replace 10 Amp day light switch per SANS 1777				
83	Supply	No	3		
84	Install	No	3		
	8mm Diameter Aluminium lightning protection conductor. To include all holding down clamps, down conductors and bonding to earth rings				
85	Supply	m	200		
86	Install	m	200		
	Bond the metal roofs at each corner of the building bonded to the earth electrode in the ground. To include lugs, brass screws, nuts and washers				
87	Supply	No	20		
88	Install	No	20		
	Provide test joint points at 500mm AFGL at each down conductor location. The test joint shall comprise of two lugs and a 10mm galvanized steel bolt and nut enclosed in a suitable GRP enclosure				
89	Supply	No	20		
90	Install	No	20		
	50mm stranded BCEW down conductor in surface mounted PVC conduit complete with saddles				
91	Supply	m	150		
92	Install	m	150		
Carried to Collection					R
Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING					

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No				Quantity	Rate	Amount
	1200mm x 16mm diameter Copper earth electrodes driven in ground, including 'Cadweld' joining sleeves as required					
93		Supply	No	20		
94		Install	No	20		
	6.0mm x 3 Core ECC					
95		Supply	m	50		
96		Install	m	50		
97		Term	No	20		
	16.0mm 3 Core ECC					
98		Supply	m	100		
99		Install	m	100		
100		Term	No	35		
	6.0mm 2 Core ECC					
101		Supply	m	40		
102		Install	m	40		
103		Term	No	20		
	10.0mm 2 Core ECC					
104		Supply	m	10		
105		Install	m	10		
106		Term	No	5		
	Carried to Collection				R	
	Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING					

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	Trench Excavations including temporary support of sides, keeping excavation dry, bedding material, backfilling, compacting and testing as specified. All backfill material to be suitable as per SANS codes and engineers approval. Backfill material to be imported if necessary. Trench depth to be 800mm below finished ground level				
107	In soft or pickable soil	m3	29		
108	Soft Rock	m3	29		
109	Hard Rock	m3	29		
110	Warning tape installed 500mm below ground level, above cables in trench	m	100		
	<u>TESTING & COMMISSIONING</u>				
111	Test and commission complete installation as per SANS 10142-1	No	4		
112	Provide Certificate of Compliance (CoC) as per SANS 10142-1. One for each DB	No	4		
113	Provide Earthing certificate for each BLOCK, to include earth resistance test of each down conductor earth electrode, measured by an Earthing specialist by means of an approved instrument	No	4		
114	Remove all redundant equipment, store and dispose at an approved dump site. A disposal certificate to be supplied	No	3		
115	Allow for Municipal/Eskom Meter Connection		Item		50,000.00
	40 Amp Double pole single phase main circuit breaker into existing feeder DB				
116	Supply	No	2		
117	Install	No	2		
	Carried to Collection				R
	Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING				

STORM DAMAGED SCHOOLS - PHASE 14
ZULULAND REGION : CLUSTER 21
KHISHWA PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	16.0mm 3 Core ECC				
118	Supply	m	50		
119	Install	m	50		
120	Term	No	5		
	Trench Excavations including temporary support of sides, keeping excavation dry, bedding material, backfilling, compacting and testing as specified. All backfill material to be suitable as per SANS codes and engineers approval. Backfill material to be imported if necessary. Trench depth to be 500mm below finished ground level				
121	In soft or pickable soil	m3	7		
122	Soft Rock	m3	7		
123	Hard Rock	m3	7		
124	Warning tape installed 300mm below ground level, above cables in trench	m	50		
	<u>TESTING & COMMISSIONING</u>				
125	Test and commission complete installation as per SANS 10142-1	No	2		
126	Provide Certificate of Compliance (CoC) as per SANS 10142-1. One for each DB and one overall	No	2		
127	Decommission, remove and make safe above cable installation upon removal of temporary accommodation	No	2		
	Carried to Collection				
					R
	Section No. 6 Electrical Installation Bill No. 1 Electrical Installation NAIDU CONSULTING				

Section No. 6

Electrical Installation

Bill No. 1

Electrical Installation

COLLECTION

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Carried to Final Summary

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Section No. 6

Electrical Installation

Bill No. 1

Electrical Installation

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