



KAVANGO EAST REGIONAL COUNCIL DIRECTORATE OF EDUCATION, ARTS AND CULTURE

REQUEST FOR SEALED QUOTATION FOR WORKS

FOR

CONSTRUCTION OF CLASS (THREE CLASSROOM AND STORE) AT MBAMBI PS, SHINYUNGWE CIRCUIT

Procurement Reference No: W/RFQ/DOEAC-KERC/107/103/2023/2024

Cost: None

Bidder:	
Address:	
Γel:	
Email Address:	
Bid Price:	





KAVANGO EAST REGIONAL COUNCIL DIRECTORATE OF EDUCATION, ARTS AND CULTURE

Letter of Invitation

	09 October 2023

Procurement Reference No: W/RFQ/DOEAC-KERC/107/10	03/2023/2024
CONSTRUCTION OF CLASS (THREE CLASSROOM A SHINYUNGWE CIRCUIT	
Dear Sir/Madam	
The Kavango East Regional Council - Directorate of Education, you with specification for the items described in details.	, Arts and Culture, will provide
Any resulting contract shall be subject to the terms and condition	ns referred to in the document.
Queries, if any, should be addressed to Mr. V. S. Martin @ 066 Mr. J Kangumbe @ 066266000 for administrative issues durin 1700hours.	-
Please prepare and submit your quotation in accordance with the given or inform the undersigned if you will not be submitting a	e specifications and instructions quotations Head
given or inform the undersigned if you will not be submitting a Yours faithfully,	1 1 OCT 2023
1 Thongary	Watt Pac. 2 4 33
Mr. J.M. Kangumbe	Date
Head: Procurement Management Unit	

SECTION I: INSTRUCTIONS TO BIDDERS

1. Rights of Public Entity

Kavango East Regional Council – Directorate of Education, Arts and Culture reserves the right:

- (a) to split the contract as per the lowest evaluated cost per lot; and
- (b) to accept or reject any quotation or to cancel the quotation process and reject all quotations at any time prior to contract award.

Please Note: Section:27 (2B) (A) of Public Procurement Amendment Act, 2022 will apply

2. Preparation of Quotations

You are requested to quote for the works mentioned in Section III, by completing, signing and returning:

- (a) the Quotation Letter in Section II with its annex for Bid Securing Declaration, where applicable;
- (b) the Priced Activity Schedule in Section IV;
- (c) the Specifications and Compliance Sheet in Section V; and
- (d) any other attachment as deemed appropriate

You are advised to carefully read the complete Request for Quotations document, including the Special Conditions of Contract in Section VII, before preparing your Quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

<u>PLEASE NOTE</u>: Compliance to the Public Procurement Act, 2015 (Act. 15 of 2015) as amended. Section 66 (2B) (a) will apply

3. Validity of Quotations

The quotation validity period shall be 180 days from the date of bid submission deadline.

4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should:

- (a) have a valid copy of company Registration Certificate:
- (b) have a valid original/certified copy of good Standing Tax Certificate;
- (c) have a valid original/certified copy of good Standing Social Security Certificate;
- (d) have a valid certified copy of Affirmative Action Compliance Certificate, proof from Employment Equity Commissioner that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998;
- (e) have a copy of certificate indicating SME Status (for Bids reserved for SMEs);
- (f) Written undertaking in terms of section 138 of Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015 and that it will abide to subclause 4.6 of the General conditions of Contract if it is awarded the contract or part thereof;

- (g) Certified Copy of the National Identity Document. In case the company is owned by more than one person, all of them should submit certified copy of National Identity Document.
- (h) Site Foreman to supervise the works must have experience in related works for at least two projects (attach complete curriculum vitae, list of projects with testimonials accompanied with contact details). Where the owner indicates that he/she will be the site Forman, he/she should attach the same.
- (i) Electrician to do the works MUST attach valid certified NORED Licence. NB: The same licence to be availed during construction and practical completion as well as issuance of certificate of compliance
- (j) Provide Company experience in related works for at least two projects
- (k) Business Principal must be inline by with the nature of procurement

5. Bid Securing Declaration

Bidders are required to subscribe to a Bid Securing Declaration for this procurement process.

6. Works Completion Period

The completion period for works shall be **four (4) months** after acceptance and issue of Purchase Order. Deviation in completion period shall not be accepted

Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number, addressed to the Public Entity with the Bidder's name at the back of the envelope.

7. Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at Kavango East Regional Council, Rundu, for Attention Mr. J.M. Kangumbe not later than 30 October 2023 at 11H00. Quotations by post or hand delivered should reach this office by the same date and time at latest. Late quotations will be rejected. Quotations received by email will not be considered.

8. Opening of Quotations

Quotations will be opened internally by the Public Entity immediately after the closing time referred to in section 7 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted the presence or absence of a Bid Securing Declaration. Opening register will be made available on request after three days of opening.

9. Evaluation of Ouotations

The Public Entity shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared on the basis of evaluated cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

10. Technical Compliance

The Specifications and Compliance Sheet details the minimum specifications of the works to be carried out. The specifications have to be met, but no credit will be given for exceeding the specifications.

11. Prices and Currency of Payment

Prices for the execution of works shall be fixed in Namibian Dollars as quoted. Quotations shall cover all costs of labour, materials, equipment, overheads, profits and all associated costs for performing the works, and shall include all duties. The whole cost of performing the works shall be included in the items stated, and the cost of any incidental works shall be deemed to be included in the prices quoted.

12. Margin of Preference

12.1 Bids are reserved for Service Providers (SME's)

13. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation and qualified to perform the works shall be selected for award of contract. Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

14. Notification of Award and Debriefing

The Public Entity shall after award of contract promptly inform all unsuccessful bidders in writing of the name and address of the successful bidder and the contract amount. Furthermore, the Public Entity shall attend to all requests for debriefing made in writing within 7 days of the unsuccessful bidders being informed of the award.

SECTION II: QUOTATION LETTER

(to be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Priced Activity Schedule and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. If your quotation is not authorised, it will be rejected.

Quotation addres	sed to:					
Procurement Ref	erence Number:					
Subject matter of	Procurement:					
	xecute the Works litions stated in yo				ements, in accordance with renced above.	the
	nat we are eligibed in Section 1: In		~	otation ex	xercise and meet the eligib	ility
					as provided under the Puany resulting contract.	ıblic
attached heret understand tha	o and subscribe	fully to the to n could lead [f	erms and co	onditions	d Securing Declaration (B) contained therein. We furty amount / disqualification	ther
The validity pe bid submission		ation is	days [in	sert numb	er of days] from the date of	`the
	sion or variation				e fixed and firm and will no rior to the expiry date of	
Works will con Order/ Letter or	nmence within f Acceptance.		_ [insert nun	nber] days	from date of issue of Purch	nase
	completed with Letter of accept		[inse	ert numbe	r]days from date of issue	of
Quotation Aut	horised by:					
Name of Bidder			Company's	Address a	nd seal	
Contact Person						
Name of Person	Authorising the Q	uotation:	Position:		Signature:	
Date		Phone N	No./E-mail			

BID SECURING DECLARATION

(Section 45 of Act) (Regulation 37(1) (b) and 37(5))

[Day month year]
Procurement Ref No.: W/RFQ/DOEAC-KERC/107/103/2023/2024
To: Kavango East Regional Council - Directorate of Education, Arts and Culture
I/We* understand that in terms of section 45 of the Act a public entity must include in the bidding document the requirement for a declaration as an alternative form of bid security.
I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of
(a) a modification or withdrawal of a bid after the deadline for submission of bids during the period of validity;
(b) refusal by a bidder to accept a correction of an error appearing on the face of a bid;
(c) failure to sign a procurement contract in accordance with the terms and conditions set forth in the bidding document, should I/We* be successful bidder; or
(d) failure to provide security for the performance of the procurement contract if required to do so by the bidding document.
I/We* understand this bid securing declaration ceases to be valid if I am/We are* not the successful Bidder
Signed:
Capacity of: [indicate legal capacity of person(s) signing the Bid Securing Declaration]
Name:
Duly authorized to sign the bid for and on behalf of:
Dated on day of [insert date of signing]
Corporate Seal (where appropriate)
[Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners to the joint venture that submits the bid.]



Republic Of Namibia

Ministry of Labour, Industrial Relations and Employment Creation

Witten undertaking in terms of section 138 of the Labour Act, 2015 and section 50(2)(D) of the Public Procurement Act, 2015

1. EMPLOYERS DETAILS

Company Trade Name:
Registration Number:
Vat Number:
Industry/Sector:
Place of Business:
Physical Address:
Tell No.:
Fax No.:
Email Address:
Postal Address:
Full name of Owner/Accounting Officer:

Email Address:

2. PROCUREMENT DETAILS

Procurement Reference No.:
Procurement Description:
Anticipated Contract Duration:
Location where work will be done, good/services will be delivered:
3. UNDERTAKING
I
of
hereby undertake in writing that my company will at all relevant times comply fully with the relevant provisions of the Labour Act and the Terms and Conditions of Collective Agreements as applicable.
I am fully aware that failure to abide to such shall lead to the action as stipulated in section 138 of the labour Act, 2007, which include but not limited to the cancellation of the contract/licence/grant/permit or concession.
Signature:
Date:
Seal:

Please take note:

A labour inspector may conduct unannounced inspections to assess the level of compliance
 This undertaking must be displayed at the workplace where it will be readily accessible and visible by the employees rendering service(s) in relations to the goods and services being procured under this contract

- A. SCOPE OF WORKS, SPECIFICATIONS AND PERFORMANCE REQUIREMENTS
- B. BILL OF QUANTITY IS ATTACHED

SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number: W/RFQ/DOEAC-KERC/107/103/2023/2024

[Complete the unit and total prices for each item listed below. Authorise the prices quoted in the signature block below.]

The quantities shown below are approximate and not subject to re-measurement for payment purposes.

Brief Description of Works	Quantity	Unit of Measure	Unit Price (N\$)	Total Price
B*	C*	D*	E	P
CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY	1			
Enter 0% VAT rate if VAT exempt.			15 %	
	CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY	CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY Enter 0% VAT rate if VAT exempt.	B* C* D* CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY Subtotal	B* C* D* E CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY Enter 0% VAT rate if VAT exempt. Subtotal VAT @ 15 %

^{*}Columns A to D to be completed as applicable by the Public Entity

Priced Activity Schedule Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf	Company		

SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: W/RFQ/DOEAC-KERC/107/103/2023/2024

[Bidders should complete columns C and D with the specifications and performance of the Works offered. Also state "comply" or "not comply" and give details of any non-compliance/deviation to the specifications required. Attach detailed technical literature if required. Authorise the specifications offered in the signature block below]

Item No	Specifications and Performance Required	Compliance of Specifications and Performance Offered	Details of Non-Compliance/ Deviation (if applicable)
A*	B*	C	D
1	CONSTRUCTION OF CLA3S (THREE CLASSROOM AND STORE) AT MBAMBI PS AS PER ATTACHED BILL OF QUANTITY		
	OI QUINTIII		

Specifications and Compliance Sheet Authorised By:

Name:	Signature:	
Position:	Date:	
Authorised for and on behalf of:	Company	

^{*} Columns A and B to be completed by Public Entity.

SECTION VI: GENERAL CONDITIONS OF CONTRACT AND CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the **Procurement of works** – **Ref. W/RFQ/DOEAC-KERC/107/103/2023/2024**

SECTION VIII SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: W/RFQ/DOEAC-KERC/107/103/2023/2024

The clause numbers given in the first column correspond to the relevant clause number of the General Conditions of Contract.

GCC Clause Reference	Special Conditions
Employer GCC 1.1(r)	Kavango East Regional Council – Directorate of Education, Arts and Culture
Intended Completion Date GCC	The intended completion date is: February 2024
Project Manager GCC 1.1(y)	The Project Manager is: Mr. G. Sikoka
Site GCC 1.1(aa)	The site is at: MBAMBI PS, SHINYUNGWE CIRCUIT
Start Date GCC 1.1(dd)	The Start Date shall be: November 2023
The Works GCC 1.1(hh)	The Works consist of: CONSTRUCTION OF CLASS (THREE CLASSROOM AND STORE)
Interpretation GCC 2.2	The project will be completed in the following sections: Four (4) Months
Interpretation GCC2.3	The following additional documents shall form part of the contract: Bill of Quantity, Standard Drawings, Purchase Order and appointment letter
Language and Law GCC 3.1	The language of the contract is English The law that applies to the Contract is the law of Namibia.
Project Manager's	The Project Manager shall obtain specific approval from the Employer before carrying out any of his duties under the Contract which in the Project Manager's

GCC Clause Reference	Special Conditions
Decisions 4.1	opinion will cause the amount finally due under the Contract to exceed the Contract Price or will give entitlement to extension of time. This requirement shall be waived in an emergency affecting safety of personnel or the Works or adjacent property.
Delegation GCC 5.1	The Project Manager may delegate his/her duties.
Notices GCC 6	Any notice shall be sent to the following addresses: For the Employer, the address shall be as given on the page 2 of this Bidding Document and the contact name shall be Ms. Ludgela Nangura P/bag 2124, Rundu For the Contractor, the address shall be as given on the first page of the Purchase Order/Letter of Acceptance and the contact name shall be
Insurance GCC 13.1	Not applicable
Site Date GCC 14.1	Not applicable
Possession of the Site GCC 20.1	The Site Possession Date shall be: February 2024
Procedure for Disputes GCC 24	No Adjudicator shall be appointed under the contract and arbitration shall not apply. If any dispute arises between the Employer and the Contractor in connection with or arising out of the Contract, the parties shall seek to resolve any such dispute by amicable agreement. If the parties fail to resolve such dispute by amicable agreement, within 14 days after one party has notified the other in writing of the dispute, then the dispute shall be referred to court by either party.
Program GCC 25.1	The Contractor shall submit for approval a Program for the Works within 5 days from the date of the Letter of Acceptance or issue of Purchase Order Agreement.
GCC 25.3	Program updates shall be required.
Defects Liability Period GCC 33.1	The Defects Liability Period is: 12 Months.
Payment Certificates GCC 39.7	Payment shall be made as per progress of works

GCC Clause Reference	Special Conditions
Payments GCC 40	The amount certified by the Project Manager shall be paid in full within 30 days of receipt by the Employer of an invoice, supported by: (a) the payment certificate; and (b) a certificate of Completion of the Works.
Adverse weather Conditions GCC 41.1 (l)	Rain, Storm, Flood
Price Adjustment GCC 44.	The Contract is not subject to price adjustment.
Retention GCC 45.	(ii) 5% of the amount shall be retained from any payment. Half of the retention money will be released after formal taking over of the Works and the remaining shall be released after the Defect Liability Period subject to the Contractor making good all defects.*
Liquidated Damages GCC 46.1	0.05% of the amount shall be retained from the total amount per day as penalties
Bonus GCC 47.1	Not applicable
Advance Payment GCC 48.1	No advance payment shall be made
Performance Security GCC 49.1	Not applicable
GCC 56.1	Not applicable
GCC 59.1	Not applicable

QUOTATION CHECKLIST SCHEDULE

Procurement Reference No.: W/RFQ/DOEAC-KERC/107/103/2023/2024

Description	Attached	Not Attached
Bid Letter		
List of Goods and Price Schedule		
Specification and Compliance Sheet		
Bid Securing Declaration		
Quotation		
Valid Original or Certified Good Standing Tax Certificate		
Valid Original or Certified Good Standing Social Security		
Certificate		
Valid Company Registration		

Disclaimer: The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.

BILLS OF QUANTITIES

FOR: CLA 3 S (THREE CLASSROOM BLOCK AND STORE) AT MBAMBI SENIOR PRIMARY SCHOOL

NOTES:

- 1. Please take note that this two classroom block is based on drawings and specifications 'as attached
- 2. Items have been coded for procurement for three classroom block (CLA3S) at MBAMBI senior p.school
- 3. Descriptions and specifications in the Bill of Quantity to be read in conjunction with the drawings
- 4. Some descriptions and specifications on the drawings have been replaced as indicated in the Bill of Quantity. Bidders are hereby advised to ignore the information on the drawings which have been changed. Information regarding soil conditions, the supply and availability of water and electricity is responsibility of the contractor.

All unforeseen items to be measured and adjusted by the client's representative in this regard to reflect "as per built in" project upon completion of construction.

A contingency allowance has been made to cover unforeseen items, but will be reviewed assessed by client representative. But will have to be reviewed by the client representative once the construction process commences

item No		Quantity	Rate	Amount
110	SECTION NO. 1			
	BILL NO. 1			
	FOUNDATIONS (PROVISIONAL)			
	For Preambles refer to "Model Preambles for Trades"			
	SUPPLEMENTARY PREAMBLES			
	Nature of ground			
	The nature of the ground is loose sandy material, therefore "earth"			
	<u>Earth</u>			
	All material which is pickable or which can be excavated by means of a backactor (complete with all equipment and accessories and in good condition, producing not less than 57kw (gross) at the flywheel and with a bare tractor mass of not less than 7900kg, equipped with 600mm wide bucket with matching teeth) will be classified as "earth". All boulders not exceeding 0,3m3 in volume will also be classified as "earth"			
	<u>Soft rock</u>			
	All material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock"			
	Hard rock			
	All very hard material which can not be removed as described above, but the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"			
	Risk of collapse			
	No risk of collapse will be measured or paid. It is the responsibility of the Contractor to ensure that the sides of the excavations are supported and that they do not collapse. In the event of the sides of the excavations collapsing, the Contractor must at his own cost remove all loose material and compact the bottoms of the trenches, holes, etc.			
	Carried to Collection		N\$	
	Section No. 1 Bill No. 1 Foundations (Provisional) REVISED MODULES (2008)			

Descriptions of carting away of avacuated material shall be				
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				
Concrete				
Prices for concrete cast against excavated surfaces shall include for casting against all types of material in the excavations and shall include for additional concrete required in filling to irregularities.				
Formwork				
Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
EARTHWORKS				
EXCAVATION, FILLING, ETC				
Excavation in earth exceeding 1m deep for:				
Trenches and holes	m3	45		
Selected earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm				
Under floors, steps, pavings, etc	m3	17		
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density in layers not exceeding 150mm				
Backfilling to trenches, holes, etc	m3	22		
Carried to Collection Section No. 1 Bill No. 1 Foundations (Provisional) REVISED MODULES (2008)			N\$	
				_

	Earth filling supplied by the Contractor compacted to 93% Mod AASHTO density in layers not exceeding 150mm					
4	Under floors, steps, pavings, etc	m3	43			
	Coarse river sand filling supplied by the contractor					
5	Approved clean earth filling laid over poisoned areas under floors	m3	9			
	Compaction of surfaces					
6	Compaction of ground surface under apron slabs, ramps, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting at Optimum Moisture Content (OMC) to 90% Mod AASHTO density	m2	104			
	CARTING AWAY					
	Extra over all excavations for loading, carting and dumping surplus excavated material:				-	
7	Off site to a dumping ground to be located by the Contractor	m3	6			
	SOIL POISONING					
	"Shell-Chem" or other approved anti-termite chemical soil poison					
8	Under floors, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	172			
9	To bottoms and sides of trenches, etc	m2	191			
	CONCRETE, FORMWORK AND REINFORCEMENT					
	UN-REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	25MPa/19mm concrete in:					
10	Strip footings	m3	13			
	STEEL REINFORCEMENT					
	Carried to Collection Section No. 1 Bill No. 1 Foundations (Provisional) REVISED MODULES (2008)			N\$		

	High tensile steel reinforcement to structural concrete work				
11	12mm Diameter bars	kg	448		
12	10mm Diameter bars	kg	186		
	BRICKWORK				
	Brickwork in 14 MPa cement bricks in Class I mortar				
13	Half brick walls	m2	13		
14	One brick walls	m2	65		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
15	75mm Wide reinforcement built in horizontally				
		m	156		
16	150mm Wide reinforcement built in horizontally	m	770		
			770		
	Carried to Collection Section No. 1	1		N\$	
	Bill No. 1 Foundations (Provisional)				
	REVISED MODULES (2008)				

	M	ODULE: CLA 3 S
Section No. 1		
Bill No. 1		
Foundations (Provisional)		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	-2	
Total Brought Forward from Page No.	-3-	
Total Brought Forward from Page No.	-4-	
Total Brought Forward from Page No.	-5-	
	N\$	
Carried Forward to Summary of Section No. 1 Section No. 1		
Bill No. 1		23
Foundations (Provisional) REVISED MODULES (2008)		

Item No		Quantity	Rate	Amount	
	SECTION NO. 1				
	BILL NO. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	For Preambles refer to "Model Preambles for Trades"				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer. (Test cubes are measured separately)				
	Formwork				
	Description 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				
	Formwork to soffits of solid slabs, etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described				
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
	UNREINFORCED CONCRETE				
	Carried to Collection		N\$		
	Section No. 1 Bill No. 2 Concrete, Formwork & Reinforcement REVISED MODULES (2008)				

	25MPa/19mm concrete in:				
1	Surface beds cast in panels on waterproofing	m3	17		
2	Apron slabs and ramps cast in panels	m3	10		
3	Extra for thickening out 100mm thick apron slab to form toe size 200mm x 400mm deep overall tapering to150mm wide x 400mm deep overall with one chamfered edge including all necessary excavation, formwork and dressing of damp proof material around same as required	m	75		
	REINFORCED CONCRETE				
	25MPa/19mm concrete in:				
4	Pockets	m3	4		
	TEST BLOCKS				
	Test Cubes				
	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 Department of Works. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Department of Works.				
5	Making and testing 150 x 150 x 150mm concrete strength test cube	No	12		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
6	Ramps, aprons, etc to falls	m2	104		
	Finishing top surfaces of concrete smooth with a wood float				
7	Surfacebeds, slabs, etc	m2	172		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Carried to Collection Section No. 1 Bill No. 2 Concrete, Formwork & Reinforcement REVISED MODULES (2008)			N\$	

	Rough formwork not exceeding 3,5m high to sides of:				
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	76		
9	Both exposed sides of pockets in one brick recess size 450mm x 4 courses high overall	No	16		
	MOVEMENT JOINTS, ETC				
	One layer of 250 micron "USB Green" or similar approved waterproof sheeting in slip joints between horizontal concrete and steel surfaces				
10	In short lengths not exceeding 300mm wide	m	2		
	Vertical construction joints through concrete				
11	Surface beds and/or apron slabs not exceeding 300mmm thick	m	36		
12	Saw cut joints 3mm x 50mm Saw cut joints in top of concrete	m	45		
	Carried to Collection Section No. 1			N\$	
	Bill No. 2 Concrete, Formwork & Reinforcement				
	REVISED MODULES (2008)				

Section No. 1				
Bill No. 2				
Concrete, Formwork & Reinforcement				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Total Brought Forward from Page No.	-8-			
Total Brought Forward from Page No.	-9-			
		N\$		
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 2				
Concrete, Formwork & Reinforcement REVISED MODULES (2008)				

Item No			Quantity	Rate	Amount
•	SECTION NO. 1				
	BILL NO. 3				
	MASONRY				
	For Preambles refer to "Model Preambles for Trades"				
	BRICKWORK				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Brickwork in 7 MPa cement bricks in Class II mortar				
1	Half brick walls	m2	38		
2	One brick walls	m2	169		
3	Half brick walls in beamfilling	m2	12		
	BRICKWORK SUNDRIES				
	Joint forming material in movement joints				
4	10mm Thick bitumen impregnated softboard expansion joint filling built through brick walls	m2	1		
	Brickwork reinforcement				
5	75mm Wide reinforcement built in horizontally	m	111		
6	150mm Wide reinforcement built in horizontally	m	754		
	Prestressed fabricated lintels		704		
7	110mm x 75mm Lintels in lengths not exceeding 3m	m			
•	Brick-on-edge header course copings, sills, etc	111	66		
	220mm Wide sill set sloping and slightly projecting				
8	22011111 Triad on out dispining and singinary projecting	m	24		
	Carried to Collection				
	Section No. 1 Bill No. 3			N\$	
	Masonry REVISED MODULES (2008)				
,		l			

	Vermin proof air bricks and vents including forming opening in wall and rendering smooth all round in cement mortar				
9	230mm x 160mm Galvanised air brick	No	6		
	Carried to Collection Section No. 1 Bill No. 3 Masonry REVISED MODULES (2008)			N\$	

Section No. 1			
Bill No. 3			
Masonry			
COLLECTION			
	Page		Amount
Total Brought Forward from Page No.	No		
Total Brought Forward from Page No.	-12-	·	
		N\$	
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 3 Masonry		1140	
REVISED MODULES (2008)			

Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 4				
	WATERPROOFING				
	For Preambles refer to "Model Preambles for Trades"				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Brikgrip DPC" or similar approved embossed damp proof course				
1	In walls	m2	17		
	One layer of 250 micron "USB Green" or other similar waterproof sheeting sealed at laps with "Pressure Sensitive Tape" or similar approved				
2	Under surface beds, apron slabs, etc	m2	172		
	JOINT SEALANTS, ETC				
	Approved polyurethane sealing compound including backing cord, bond breaker, primer, etc				
3	6mm x 20mm In saw cut joints in floors	m	45		
4	10mm x 20mm In vertical expansion joints including raking out 20mm softboard in joints as necessary	m	11		
	Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 4 Waterproofing REVISED MODULES (2008)			N\$	

ltem No		Quantity	Rate	Amount
	SECTION NO. 1			
	BILL NO. 5			
	ROOF COVERINGS, ETC			
	For Preambles refer to "Model Preambles for Trades"			
	PROFILED METAL SHEETING AND ACCESSORIES			
	0,5mm "IBR" galvanised steel profiled sheeting and accessories fixed to steel/timber purlins in accordance with the manufacturer's instructions			
1	Roof covering in single lengths with pitch not exceeding 25 degrees fixed to steel purlins	2 274		
2	Standard "IBR" galvanised half-round ridge capping including flute closers both sides	n 25		
	ROOF INSULATION			
	"Sisalation 400" or similar approved industrial grade aluminium foil based insulation			
3	Insulation laid taut over purlins (at approximately 1 200mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	2 196		
	SUNDRIES			
	Approved oil/gease			
4	Apply one layer approved oil to roof sheeting bedded on brickwork (Provisional)	2 9		
	Carried Forward to Summary of Section No. 1 Section No. 1		N\$	
	Bill No. 5 Roof coverings			
	REVISED MODULES (2008)			

BILL N CARPE For Prea	ON NO. 1 O. 6 ENTRY AND JOINERY Imbles refer to "Model Preambles for all Trades" PROTECTION RAILS, ETC				
CARPE For Prea	ENTRY AND JOINERY Imbles refer to "Model Preambles for all Trades"				
For Prea	imbles refer to "Model Preambles for all Trades"				
WALL F	PROTECTION RAILS, ETC				
Supawo	od				
	Architect's drawing No. F34 when pricing the following rail (the drawing is attached to these Bills of Quantities)				
rounded	x 22mm Rebated wall protector rail with exposed edges plugged to brickwork at 450mm centres elsewhere measured)	m	58		
Section N Bill No. 6 Carpentry REVISED				N\$	

Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	For Preambles refer to "Model Preambles for Trades"				
	SUPPLEMENTARY PREAMBLES				
	Descriptions				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	METAL CEILINGS				
	0,5mm Thick "I.B.R" profile "Alu Zinc AZ 185" galvanised sheet steel fixed to steel purlins				
1	Ceilings pop riveted to steel purlins (elsewhere)	m2	175		
	Metal cornice				
2	50mm x 50mm x 3mm x 2,24kg/m Mild steel cornice to suit horizontal ceilings screwed with 6mm diameter x 20mm long stainless steel self-tapping screws to sheet steel ceiling and plugged with 5mm thick sawn softwood spacer to brickwork/concrete at maximum 500mm centres				
		m	62		
	Sundries				
3	Extra over "I.B.R." ceiling for access hatch 800mm x 800mm formed of 30mm x 30mm x 2,5mm thick mild steel frame filled in with "I.B.R" sheeting and set into 30mm x 30mm x 2,5mm mild steel frame riveted to steel purlin	No	1		
	Carried to Collection Section No. 1 Bill No. 7 Ceilings, Partitions & Access flooring			N\$	
	REVISED MODULES (2008)				

4	Apply one layer approved oil to ceiling sh brickwork	eeting bedded on n	12	3		
	Section No. 1	Carried to Collection			N\$	
	Bill No. 7 Ceilings, Partitions & Access flooring REVISED MODULES (2008)					

Section No. 1			
Bill No. 7			
Ceilings, Partitions & Access flooring			
COLLECTION			
	Page No		Amount
Total Brought Forward from Page No.			
Total Brought Forward from Page No.			
		NIG	
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 7		N\$	
Ceilings, Partitions & Access flooring REVISED MODULES (2008)			

Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 8				
	IRONMONGERY				
	For Preambles refer to "Model Preambles for Trades"				
	SUPPLEMENTARY PREAMBLES				
	Prices must allow for fixing to timber, steel and plastered or tiled walls as may be necessary.				
	All locks are to have consecutive numbers stamped on the forend and to be supplied with two keys attached to and including an approved chromium plated split ring; in addition prices are to include for the supply of one standard plastic tag key ring with number written on paper strip and one 35mm diameter circular key tags formed of 3mm thick perspex plates engraved in black with 6mm high numerals and letters corresponding with the respective lock numbers, holed for and fitted to split ring.				
	All locks to be fitted with pattern screws.				
	CATCHES, CABIN HOOKS, ETC				
1	"Halcast 166" or similar approved 150mm long brass storm hook and cleat plugged	No	4		
	LOCKS				
	"Union" or other approved				
2	"UN337800000000" or similar approved brass padlock.	No	4		
	LETTERS, NAMEPLATES, ETC				
3	1,2mm Thick natural anodised aluminium signage numberplate black engraved in 15mm high "Bold Condensed Helvetica" letters screwed to doors with aluminium counters sunk screws and sealed with approved silicone sealant as follows: 50mm x 25mm with 2 letters and/or numerals	No	4		
	Carried to Collection Section No. 1 Bill No. 8 Ironmongery REVISED MODULES (2008)			N\$	

	1,2mm Thick natural anodised aluminium signage nameplate black engraved in 30mm high "Bold Helvetica" letters screwed to doors with countersunk aluminium screws and sealed with approved silicone sealant as follows:				
4	300mm x 100mm with 5 letters or numerals	No	1		
5	360mm x 100mm with 10 letters or numerals	No	3		
	SUNDRIES				
6	"Union" AL8730 AS or similar approved 38mm diameter black rubber door stop, plugged	No	4		
	SHELVES, ETC				
	"Storage Direct" or other similar approved				
7	ndustrial standard module adjustable bolted shelving unit 914 mm x 305mm x 1 905mm high consisting of four uprights, one top and botton shelf bay unit (code: BF 2134305 cut to specified height) and five shelves (code BS 305), all inclusive of all corner gussets, nuts and bolts including bolting to similar adjacent bays	No	12		
	STEEL LOCKERS				
	"Storage Direct" or other similar steel lockers with standard baked enamel finish				
8	Standard teacher's cupboard size 900mm x 450mm x 1800mm with four adjustable shelves (code: CU10) fixed to brickwork with 4, 6x4 "Rawl" coach screws	No	3		
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
	"Storage Direct" or similar approved				
9	Steel framed chalkboard (code: SYS 1000) size 2 700mm x 1 140mm with magnetic non-reflective steel surface and aluminium chalk rail, plugged sys1000	No	3		
	Carried to Collection Section No. 1 Bill No. 8 Ironmongery REVISED MODULES (2008)			N\$	

	"Vitrex" or similar approved				
10	Model 2300 "code 2315" aluminium framed pinning board size 1 000mm x 1 200mm high with "misty (light grey)" pinning surface, plugged to wall	No	6		
11	Model 2300 "code 2309" aluminium framed pinning board size 2 400mm x 1 200mm high with "misty (light grey)" pinning surface, plugged to wall	No	6		
	Carried to Collection			N\$	
	Section No. 1 Bill No. 8 Ironmongery REVISED MODULES (2008)			144	

Section No. 1		
Bill No. 8		
Ironmongery		
COLLECTION		
	Page	Amount
Total Brought Forward from Page No.	No -20-	
Total Brought Forward from Page No.		
Total Brought Forward from Page No.		
Total Bloaght Siwara nomin ago ito.		
	-:	
		N\$
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 8 Ironmongery		
REVISED MODULES (2008)		

item No		Quantity	Rate	Amount
	SECTION NO. 1			
	BILL NO. 9			
	STRUCTURAL STEELWORK			
	For Preambles refer to "Model Preambles for Trades"			
	SUPPLEMENTARY PREAMBLES			
	Descriptions			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.			
	All steel to be painted with two coats red oxide primer before delivery to site			
	Structural steel components and the calculation of masses are in accordance with "Structural Steel Tables" issued by the South African Institute of Steel Construction.			
	Prices for structural steelwork are to include for all cutting, fitting, welding, drilling of holes or slotted holes, bolts, nuts, washers, etc. and for bolting and welding components together either in the place of manufacture or on the site.			
	Carried to Collection Section No. 1 Bill No. 9 Structural Steelwork REVISED MODULES (2008)		N\$	

	All steel work build into brickwork or concrete to be wrapped in two layers with DPC extending for a minimum of 150mm both sides of brickwork or concrete. STEEL RAFTERS, TRUSSES, ETC Welded roof trusses of 50mm x 50mm x 5mm angle section top- and bottom cords and 40mm x 40mm x 5mm angle section intermediate members including all angle rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates bolted to steel or fixed to concrete				
1	Double pitched trusses 10,440m x 1,095m high extreme	kg	860		
	Baseplates, bolts to trusses, etc				
2	150mm x 85mm x 6mm Base plate 12mm diameter mild steel U-bolt 700mm girth with 75mm	kg	10		
	threaded ends cast into concrete ringbeam	No	16		
4	M8 "Rawi" bolt 100mm long	No	64		
	PURLINS, GIRTS, BRACING, ETC				
	Purlins and girts welded to steel				
5	100mm x 50mm x 20mm x 2,5mm Lipped channel section purlins	kg	1,140		
6	75mm x 50mm x 20mm x 2,5mm 3,85kg/m Lipped channel section purlins	kg	680		
	Carried to Collection Section No. 1 Bill No. 9 Structural Steelwork			N\$	
	Section No. 1 Bill No. 9			N\$,

		MODULE. CLA 3 3
Section No. 1		
Bill No. 9		
Structural Steelwork		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.		
Total Brought Forward from Page No.	-25	
		N\$
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 9		
Structural Steelwork REVISED MODULES (2008)		

Item No		Quantity	Rate	Amount
	SECTION NO. 1			
	BILL NO. 10			
	METALWORK			
	For Preambles refer to "Model Preambles for Trades"			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	All steelwork to be primed and to receive two coats cold galvanised paint			
	WELDED SCREENS, GATES, ETC			
	Security gates			
	Carried to Collection Section No. 1 Bill No. 10 Metalwork REVISED MODULES (2008)		N\$	
	, ,		V .	

	Refer to Archive u			MODUL	E: CLA 3 S
	Refer to Architect's drawings No. D12a, D12b, No. D13 D13b when pricing the following security gates (the draware attached to these Bills of Quantities)	a and wings			1
	Single gate to suit door opening 813mm x 2 337mm hig overall, formed of 40mm x 40mm x 2,5mm hollow section frame divided in two panels with two 40mm x 40mm x 2, horizontal intermediate middle rails 200mm apart and fill with 3mm thick mild steel plate, each panel filled in with 1 mm x 15mm x 2mm hollow section vertical bars at equal centres, the entire gate hung on and including three 100m steel weld-on lift-off hinges fitted onto 3mm thick mild steel plate welded into both sides of rebate of metal frame (elsewhere) including "Union L-21315-40PL" or similar approved narrow style cylinder deadlock suitable for masterkeying with striking plate and "Union 5375-05AS" of similar approved escutcheons and with 3mm mild steel plate 15mm wide x 200mm high welded to gate frame to cover 1 bolt (paintwork elsewhere) (D12) as Item No: Non Schedul	gh on .5mm ed in five 15 mm el			
	PRESSED STEEL SINGLE PANEL STEEL CHAWL DOORS AND FRAMES	A	1		
	1,2mm "Wispeco Single Panel Steel Chawl" or similar approved doors				
2	Door 813mm x 2 032mm high with rebated frame suitable fone brick wall with padlatch with independent operation from inside fitted with standard steel hinges and striking plate as Item No: 1331.00	1	10 10 10		
11	Door 813mm x 2 032mm high with 305mm high fanlight with rebated frame suitable for one brick wall with padlatch with ndependant operation from inside fitted with standard steel hinges and striking plate as Item No: Non Scheduled		3		
5	STEEL WINDOWS, DOORS, ETC	No	1		
a	tandard residential windows with NBP33 burglar bars to Il sections				
4 W	indow type NG2, 1 022mm x 359mm high as Item No:				
- 1	indow type ES4H, 1 511mm x 654mm high as Item No: Non heduled	NI.	<u>B</u> 1		
	Comit III				
Bill I Meta	tion No. 1 Carried to Collection No. 10		N\$		
KEV	(ISED MODULES (2008)		i E		
	-28-	e 316			1

6	Windows type ES4H and E9H, both 1 511mm x 654mm high and welded together to form window size 1 511mm x 1 308mm high overall No	9		
7	purpose made mild steel burglars bars welded to steel Window burglar bars of 20 x 5mm mild steel flat bars to brick pattern With the vertical bars at 100mm canters and horizontal bar at 200mm canters welded on			
	Section No. 1 Bill No. 10 Metalwork		N\$	

6	Windows type ES4H and E9H, both 1 511mm x 654mm high and welded together to form window size 1 511mm x 1 308mm high overal!	No	9		
	Carried to Collection Section No. 1 Bill No. 10 Metalwork REVISED MODULES (2008)			N\$	

Section No. 1		
Bill No. 10		
Metalwork		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.		
Total Brought Forward from Page No.		
Total Brought Forward from Page No.		
O-mi-d F-mand 4- O-man		N\$
Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 10 Metalwork		
REVISED MODULES (2008)		

Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 11				
	PLASTERING				
	For Preambles refer to "Model Preambles for Trades"				
	INTERNAL PLASTER				
	1:5 Cement plaster on brickwork				
1	On walls	m2	255		
2	On narrow widths	m2	9		
	1:5 Cement plaster on concrete				
	EXTERNAL PLASTER				
	1:5 Cement plaster on brickwork				
3	On walls	m2	163		
4	On walls in foundations (Provisional)	m2	16		
5	On narrow widths	m2	6		
6	On sloping top, edge and projecting soffit of sills 300mm girth	m	24		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
7	25mm x 25mm x 3mm Mild steel angle section corner				
	protectors in varying lengths with 25mm x 3mm fish tail lugs 50mm long welded on at 500mm centres including embedding		4		
	in concrete	kg	4		
8	50mm x 50mm x 5mm Mild steel angle section corner protectors in varying lengths with 30mm x 3mm fish tail lugs				
	200mm long welded on at 400mm centres including embedding in concrete	kg	125		
9	3mm x 20mm Flat section brass dividing strips between different floor finishes		2		
	different noor infisites	m	3		
	Carried to Collection Section No. 1			N\$	
	Bill No. 11				
	Plastering REVISED MODULES (2008)				

10	5mm x 50mm Flat section brass weatherbar cut to lengths, set on edge and embedded in concrete threshhold		2		
		m	3		
				10	
	Carried to Collection Section No. 1			N\$	
	Bill No. 11 Plastering				
	REVISED MODULES (2008)				

5	Section No. 1			
E	Bill No. 11			
F	Plastering			
2	COLLECTION			
		Page		Amount
١,	otal Brought Forward from Page No.	No -31-		
	otal Brought Forward from Page No.	-32-		
'	otal Blought Forward Holli'r ago No.	02		
			* 14	
_	Carried Forward to Summary of Section No. 1		N\$	
В	ection No. 1 ill No. 11			
	lastering EVISED MODULES (2008)			
l K	L 4 10 LD 14 10 D 0 L L 0 (2000)			

item No		Quantity	Rate	Amount
	SECTION NO. 1			
	BILL NO. 12			
	GLAZING			
	For Preambles refer to "Model Preambles for Trades"			
	GLAZING TO STEEL WITH PUTTY			
	4mm "Ampaguard"			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	0.4		
	m2	24		
	Carried Forward to Summary of Section No. 1 Section No. 1		N\$	
	Bill No. 12 Glazing			
	REVISED MODULES (2008)			
		1	1	

Item No			Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 13				
	PAINTWORK				
	For Preambles refer to "Model Preambles for Trades"				
	ON FLOATED PLASTER				
	Prepare and apply one coat plaster primer and two coats "Plascon Double Velvet" or similar approved paint				
1	On internal walls	m2	263		
	Prepare and apply two coats high gloss enamel paint				
2	On internal walls in skirtings 100mm high	m	102		
	Prepare and apply one coat plaster primer and two coats exterior quality "Plascon Polvin" or similar approved super acrylic PVA paint				
3	On external walls	m2	176		
4	On external walls in foundations (Provisional)	m2	16		
	ON FIBRE-CEMENT	1112	10		
	Prepare and apply one coat undercoat and two coats exterior quality "Plascon Polvin" or similar approved super				
	acrylic PVA paint				
5	On window cills	m2	2		
	ON METAL				
	Prepare, touch up factory primer and apply one coat universal undercoat and two coats high gloss enamel paint				
6	On door frames	m2	8		
7	On doors	m2	14		
	Section No. 1 Bill No. 13 Painting REVISED MODULES (2008)			N\$	
Ī				ļ.	1

8	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	4
9	On windows with burglar bars (both sides measured over the full flat area)	m2	48
10	On exposed members of roof trusses, purlins, etc,	m2	57
	Prepare, remove storage oil with galvanised roof cleaner, rinse with clean water and apply two coats acrylic PVA		
11	On profiled metal sheet ceilings and cornices (measured on flat)	m2	178
	ON WOOD		
	Prepare and apply two coats clear varnish		
12	On skirtings, rails, etc. not exceeding 300mm girth:		50
	<u>Floor tiles</u>	m	58
	300x300mm porcelain full body ceramic tiles laid on Screed (elsewhere measured) with adhesive and Including jointing and pointing with dove grey tiles grown strict accordance with the manufacture's instruction	ut	
13	on floors and landings	m ²	173.28
14	skirting 100mm high	m	99.38
15	floor to patterns	m²	173.28
16	similar approved natural anodized aluminum tiles edge Trim Cut to lengths and bedded in tile adhesive	m	99.38
17	deco m 80 D" or similar approved solid brass tiles edge Trim cut to length and bedded in tiles adhesive	m	4

Carried to Collection

N\$

Section No. 1 Bill No. 13 Painting REVISED MODULES (2008)

	Section No. 1				
	Bill No. 13				
	Painting				
	COLLECTION				
		Page		Amount	
	Total Brought Forward from Page No.	No -35			
	Total Brought Forward from Page No.	-36			
	Total 210agitt of tara il om Fago Fto.	-00			******
	Carried Forward to Summary of Soction No. 4		N\$		
1	Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 13 Painting				
1	REVISED MODULES (2008)				

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 14			
	EXTERNAL WORKS			
	For Preambles refer to "Model Preambles for Trades".			
	The Contractor is referred to the previous Sections for the full descriptions of labour and material which apply equally to the items in this Section unless otherwise described			
	SITE CLEARANCE			
	Cutting down and removing, grubbing up and filling in hole			
1	Tree exceeding 100mm and not exceeding 200mm girth NO.	0		
	Corried Femurard to Summany of Section No. 4		NIÓ	
	Carried Forward to Summary of Section No. 1 Section No. 1 Bill No. 14 External Work		N\$	
	REVISED MODULES (2008)			

	SECTION SUMMARY - Building Works			
Bill No		Page No		Amount
1	Foundations (Provisional)	-6-		
2	Concrete, Formwork & Reinforcement	-10-		
3	Masonry	-13-		
4	Waterproofing	-14-		-
5	Roof coverings	-15-		
6	Carpentry & Joinery	-16-		
7	Ceilings, Partitions & Access flooring	-19-		_
8	Ironmongery	-23-		<u> </u>
9	Structural Steelwork	-26-		
10	Metalwork	-30-		
11	Plastering	-33-		
12	Glazing	-34-		
13	Painting	-37-		-
14	External Work	-38-		
	g.			
	Section No. 1		N\$	
	REVISED MODULES (2008)			

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 1			
	ELECTRICAL INSTALLATION			
	CLASSROOMS			
	ELECTRICAL INSTALLATION TO MODULE: CLA3S (THREE CLASSROOM BLOCK AND STORE)			
	Refer to attached sheets 1-3 of "SCHEDULE 07: ELECTRICAL INSTALLATION: MODULE CLA 3S"			
1	"SCHEDULE 07" Material Total brought forward from page 3	Item		
2	"SCHEDULE 07" Labour Total brought forward from page 3	Item		
	Carried to Final Summary		N\$	
	Section No. 2 Bill No. 1			
	Electrical Installation REVISED MODULES (2008)			
		Į		

	FINAL SUMMARY			
Section No		Page No		Amount
1	Building Works	- 39		
2	Specialist Installations	-40		
	Sub-total for net building works Nett Location factor value	Item	N\$	
	<u>Sub-total</u> for net building works including location factor		N\$	
	Contingencies			
	Allow the contingencies to be usedas directed by the client's representative to be deducted in whole or in part if not required			
		10%		
	Sub-total for net building works including contingencies		N\$	
	VAT on net building cost (15%)		N\$	
	Carried to Form of Tender REVISED MODULES (2008)		N\$	

ELECTRICAL WORK OF 3CLAS AT MBAMBI SENIOR PRIMARY SCHOOL, SHINYUNGWE CIRCUIT

SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number:	4	

The quantities shown below are approximate, and subject to re-measurement for payment purpose.

Item No.	Brief Description of Works	Unit of Measure	Quantity	Unit of Price N\$	Total Price N\$
	ELECTRICAL INSTALLATION FOR MODULE C-CLA3S	AVACEDATE		111001110	114
1.0	Supply & install flush white epoxy powder coated sheet steel DB-3 (MOD-12) complete as specified but excluding equipment listed below	Lot	1.00		
1.1	40A DP 5kA Isolator	No	1.00		
1.2	5A SP 5kA MCB	No	1.00		
1.3	10A SP 5kA MCB	No	1.00		
1.4	20A SP 5kA MCB	No	2.00		
1.5	40A DP 5kA ELR without overload	No	1.00		
1.6	60A SP 5KA MCB	No	1.00		
1.7	Surge Arresters	No	2.00		
1.8	Blank cover	No	2.00		
1.9	DB Labelling	No	1.00		
2.0	Supply & install 600/1000V PVCAS supply cable drawn into conduits or in ground				
2.1	16mm² x 2c Cu	M	100.00		
	Terminate 600/1000V PVCAS cables in DBs, including glands, etc				
2.2	16mm² x 2c Cu	No	2.00		
	Supply & install Bare Copper Earth wire cable drawn into conduits or in ground				
2.3	10mm ²	M	100.00		
3.0	Supply & install heavy gauge PVC conduit, including adapters, glueing, terminations, etc				
3.1	ø20mm flush in wall (chasing included), surface in ceiling, cast in concrete	M			

3.2	ø25mm flush in wall (chasing included), surface in ceiling, cast in concrete	M	6.00	
4.0	Supply & install Class 9 uPVC sleeves for supply cables to DBs			
4.1	ø50mm flush in wall (chasing included), surface in ceiling, cast in concrete, in ground	M	5.00	
4.2	ø50mm slow bends	No	1.00	
5.0	Supply & install light switches & socket outlets complete with cover plates & connection to circuit wiring			
5.0	Light switches			
5.1	16A flush 1-lever, 1-way	No	4.00	
5.2	Photocell	No	1.00	
	Coalest and sta			
<i>F</i> 2	Socket outlets	NT.	4.00	
5.3	16A 3-pin single SSO flush in wall	No	4.00	
6.0	Supply & install luminaire, including control gear & lamp complete & connect to circuit wiring			
6.1	Type A	No	3.00	
6.2	Type B	No	1.00	
6.3	Type C	No	12.00	
7.0	Supply & install grade 600/1000V PVC insulated stranded copper wiring drawn into conduits, sleeves & trunking			
7.1	2.5mm ²	M	300.00	
7.2	4mm ²	M	200.00	
	Supply & install grade 600/1000V PVC insulated stranded copper earth wiring drawn into conduits, sleeves & trunking			
7.3	2.5mm ²	M	200.00	
8.0	Supply & install galvanised mild steel conduit outlet boxes, draw boxes & cover plates as required			
8.1	Ø20mm flush in wall (chasing included), surface in ceiling, cast in concrete	No	16.00	
8.2	100x50x50 flush in wall (chasing included), surface in ceiling, cast in concrete	No	4.00	
8.3	100x100x50 flush in wall (chasing included), surface in ceiling, cast in concrete	No	4.00	

, (b)

3

9.0	LV cable trenches 600 mm wide x 500 mm deep including backfilling & compaction			
9.1	In earth	M	100.00	
10.0	Supply and install 1.5m copper earth spikes to detail, including excavation, backfilling, compaction and connection to BCEW			
10.1	1.5m Copper earth spikes	No	2.00	
	Connect 50mm ² earth wire to roof, stud in earth test point box and earth spike, including lugs and fixing hardware			
10.2	Connections 50mm ² insulated earth wire	No	6.00	
	Supply and install 50mm ² insulated earth from earth test point to roof earth point and to earth spike			
10.3	50mm² insulated earth	No	8.00	
	Earth terminal box complete with earth bar and clearly labelled "Earth Terminal"			
10.4	Terminal box	No	2.00	
			Subtotal:	

Contingencies 10%

VAT@15%

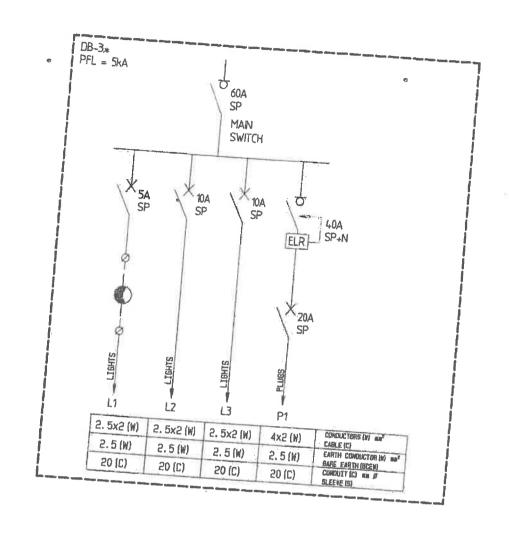
Total

MODULE CLA3S

THREE CLASSROOMS & STORE



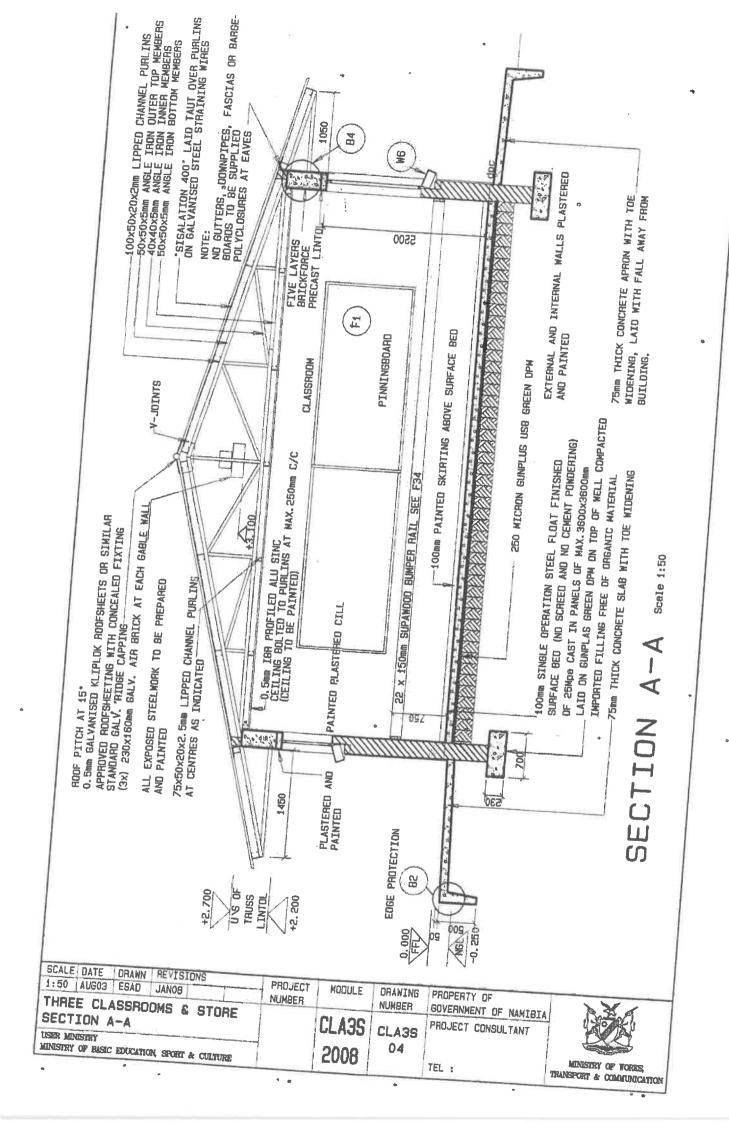
MINISTRY OF WORKS,
TRANSPORT & COMMUNICATION



N. T. S. AUGO3 ESAD REVISIONS	PROJECT	MDDULE	1 00		
THREE CLASSROOMS & STORE	NUMBER	HODGILE	DRAWING	The control of the	
DIAGRAM		CLA3S		PROJECT CONSULTANT	
SER MINISTRY INISTRY OF BASIC EDUCATION, SPORT & CULTURE	1 1	2008	09		



MINISTRY OF WORKS,
TRANSPORT & COMMUNICATION



LIST OF DEFAILS

CONSTRUCTION B 1
DETAILS: B 2
B 3
B 4
B 5
B 8
B19
B33
B41

DOORS: D 1 D 9 D12

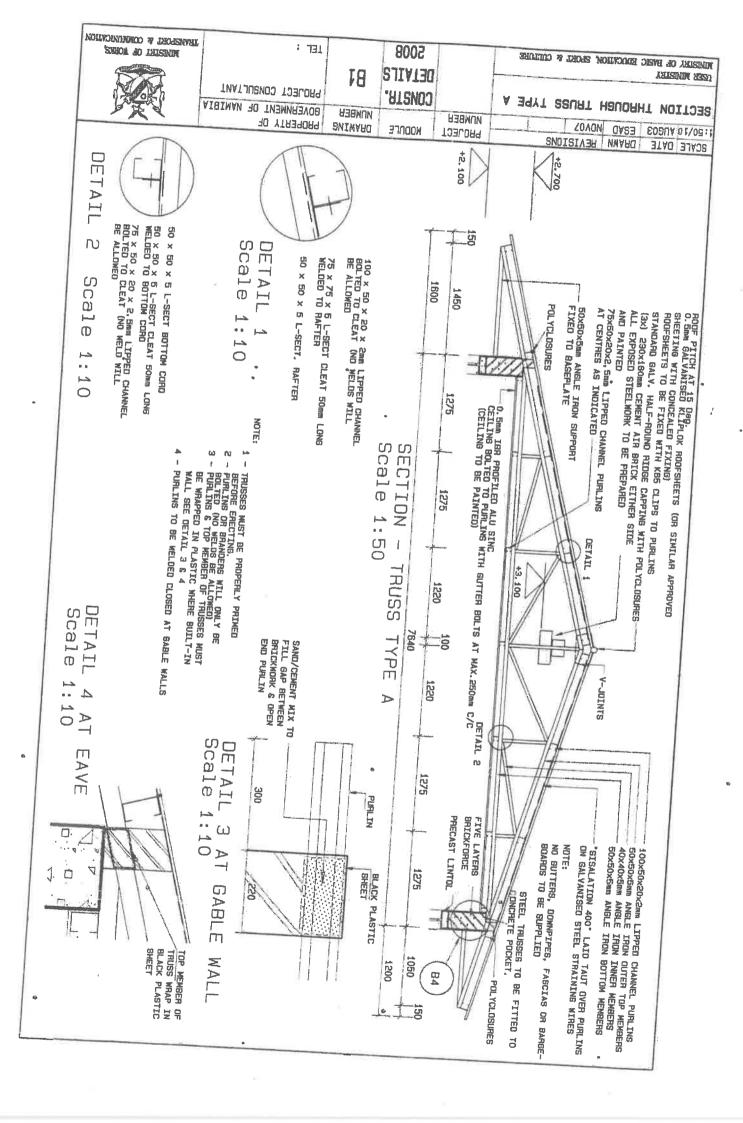
WINDOWS: W1 W2 W3

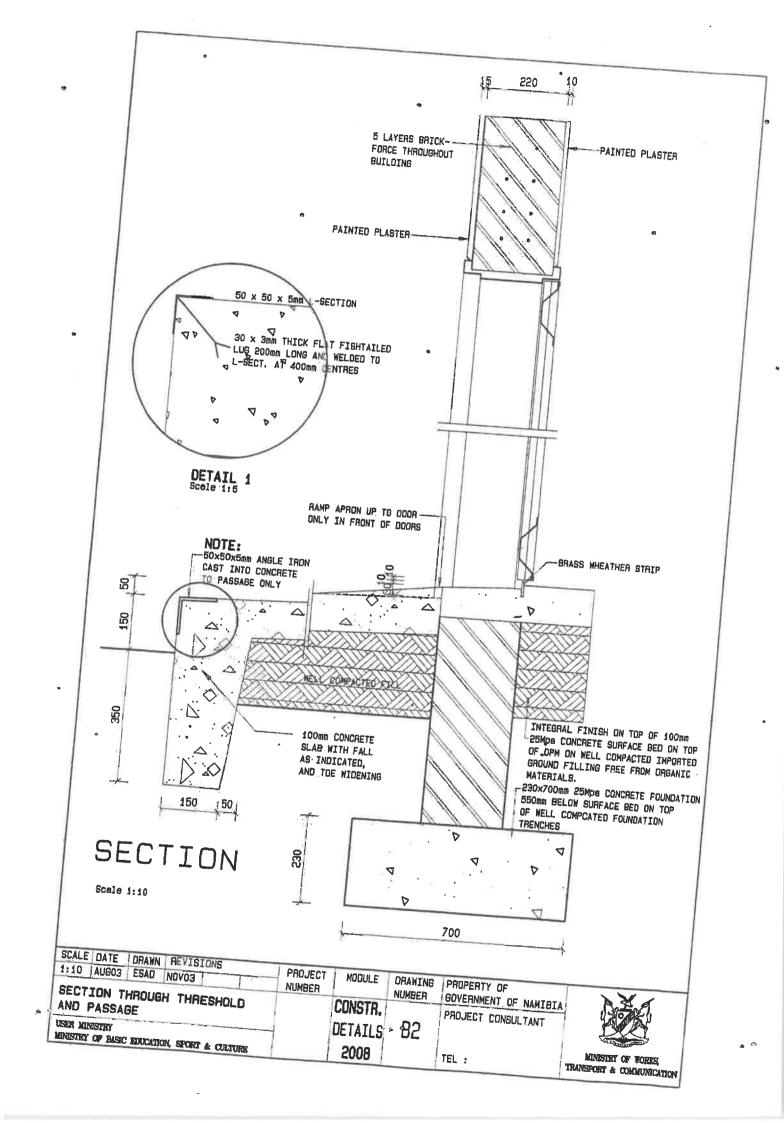
ELECTRICAL: E01

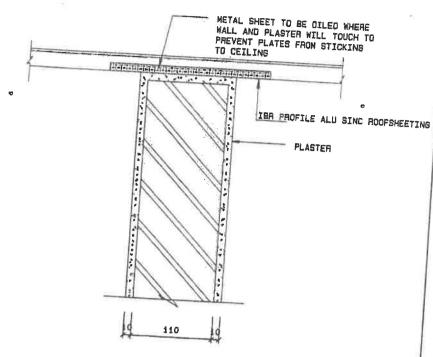
GENERAL F 1
FURNITURE: F 3
F 4
F 6

F 6 F10

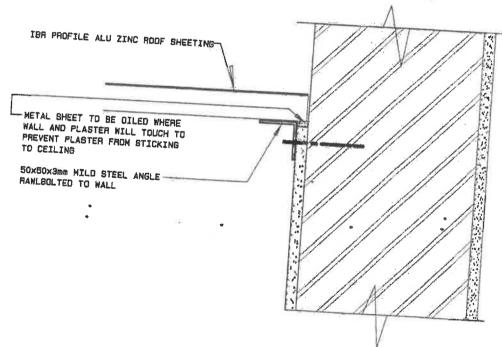
THREE CLASSROOMS & STORE	PROJECT NUMBER	MODULE	DRAWING NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA	l XX
LIST OF DETAILS USER MINISTRY MONISTRY OF BASIC EDUCATION, SPORT & CULTURE		CLA3S 2008	CLA3S 10	PROJECT CONSULTANT	
a constant	***************************************			TEL:	MINISTRY OF NORKS, TRANSPORT & COMMUNICATION







SECTION Scale 1:5

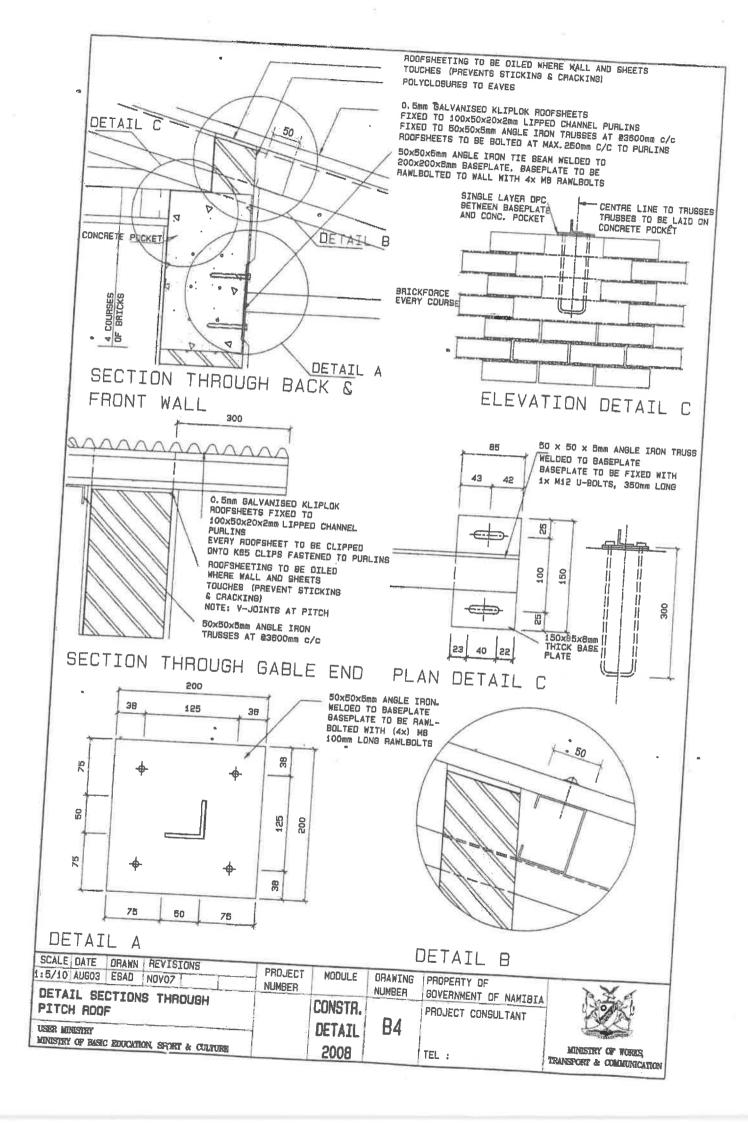


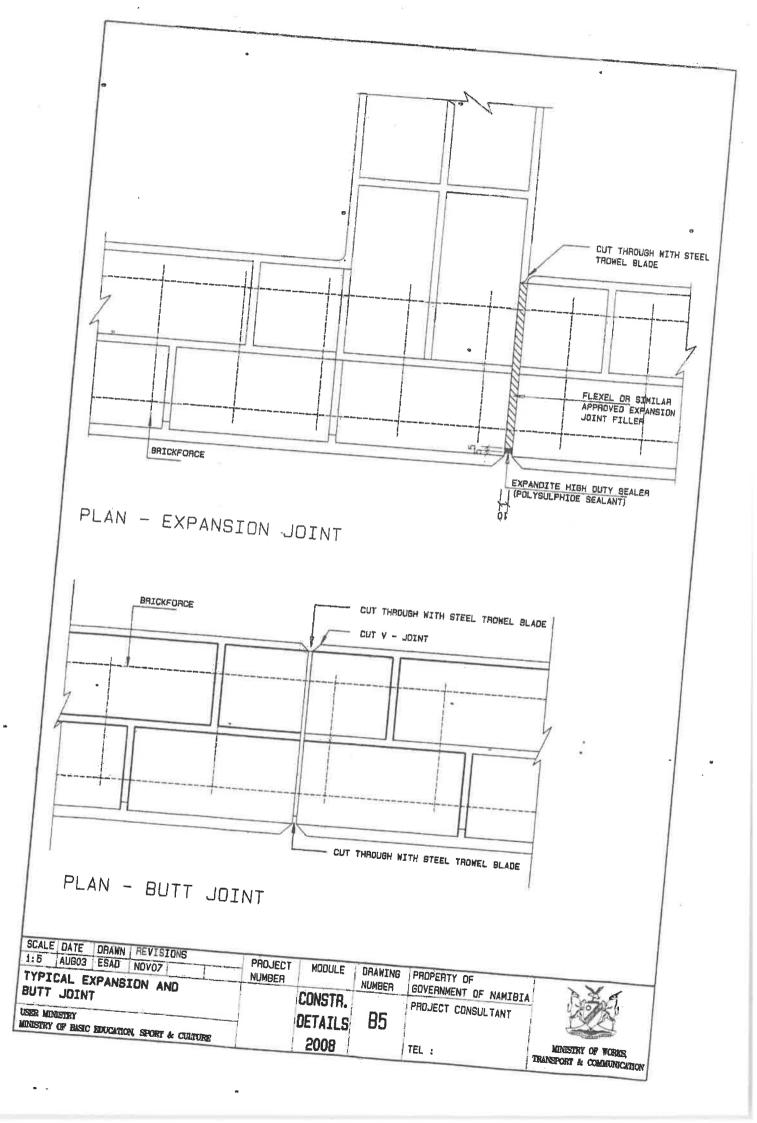
SECTION Scale 1:5

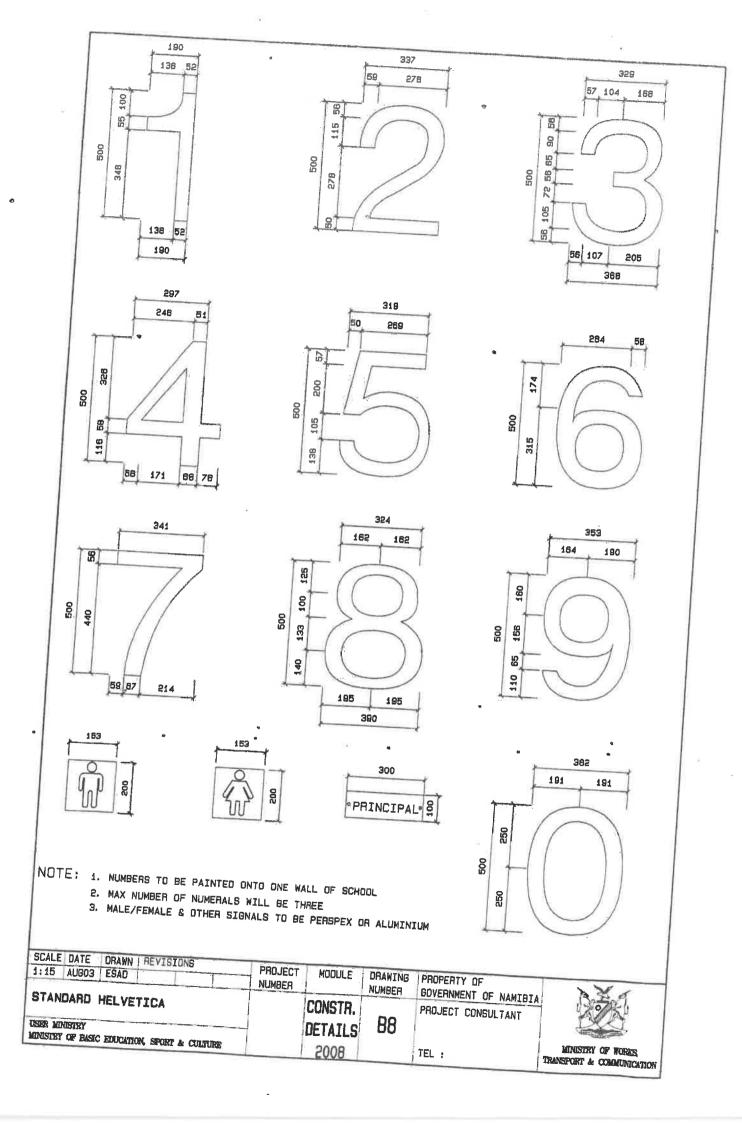
SCALE DATE DRAWN REVISIONS 1:2/5 AUGO3 ESAD NOVO7	PROJECT NUMBER	MODULE	DRAWING	Liver militi OL	1
CEILING DETAIL AT WALL INTERSECTIONS	And the second	CONSTR.	-	PROJECT CONSULTANT	A
USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		DETAILS 2008	B3	TEL :	TRA

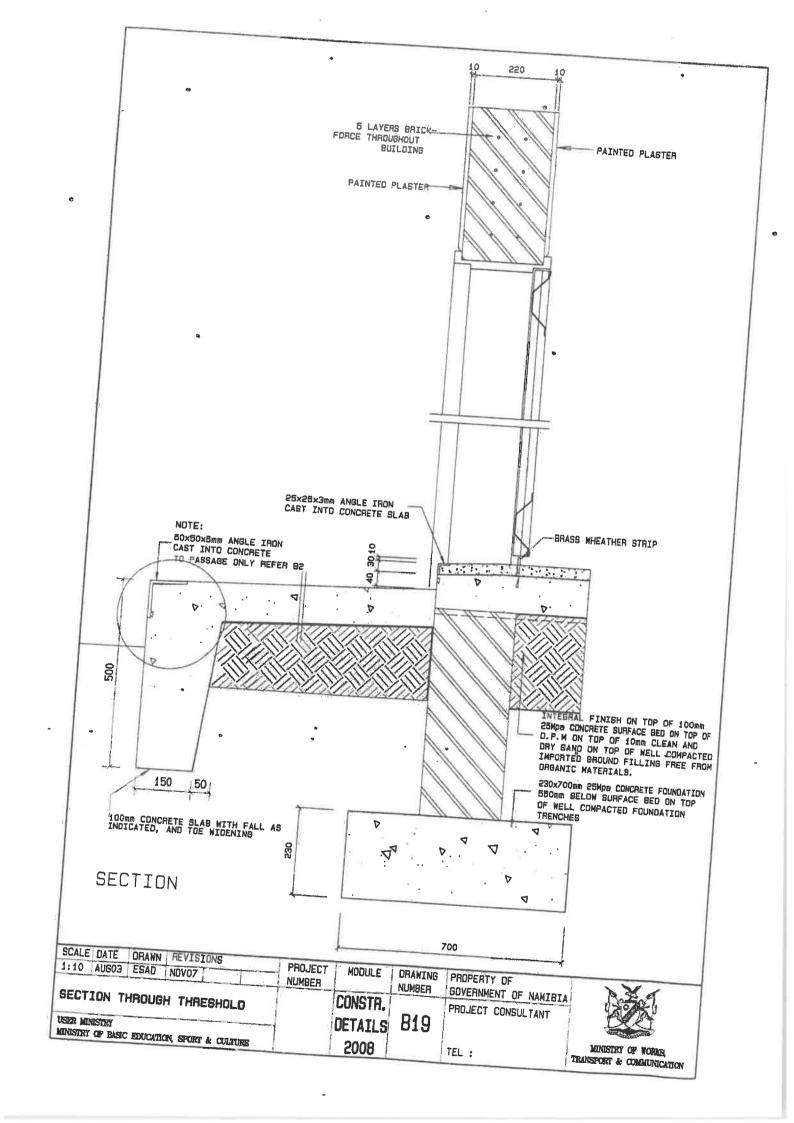


MUNISTRY OF WORKS TRANSPORT & COMMUNICATION







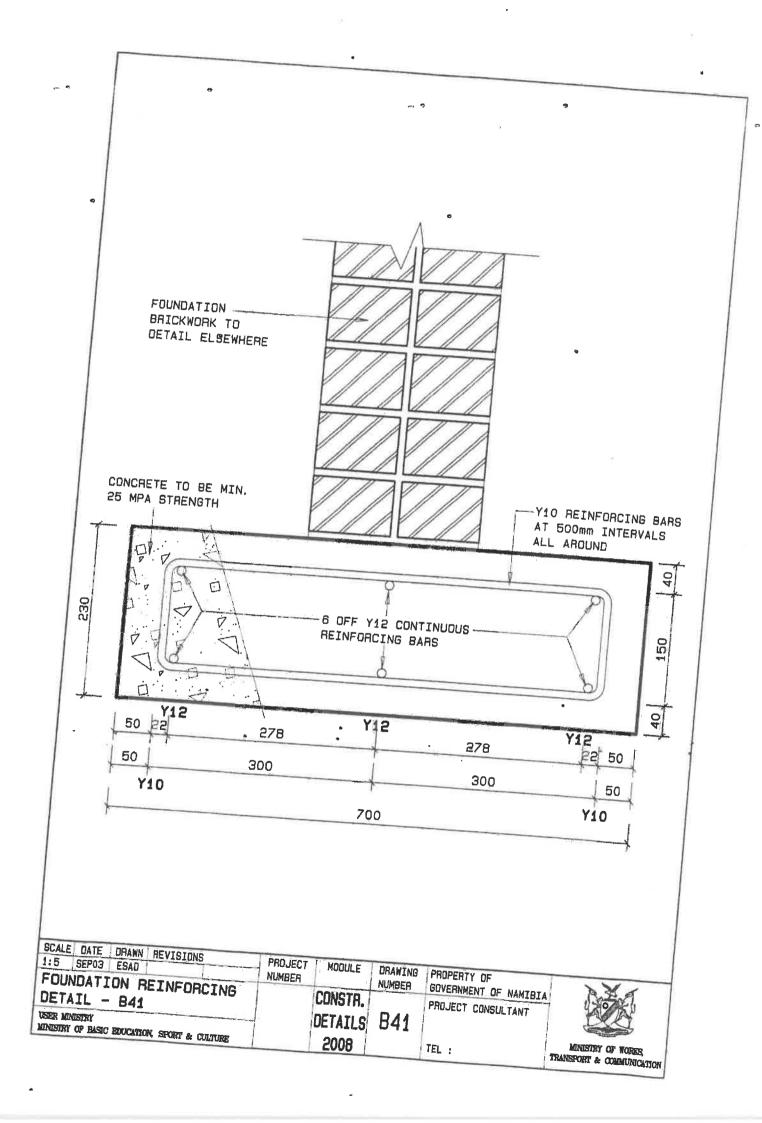


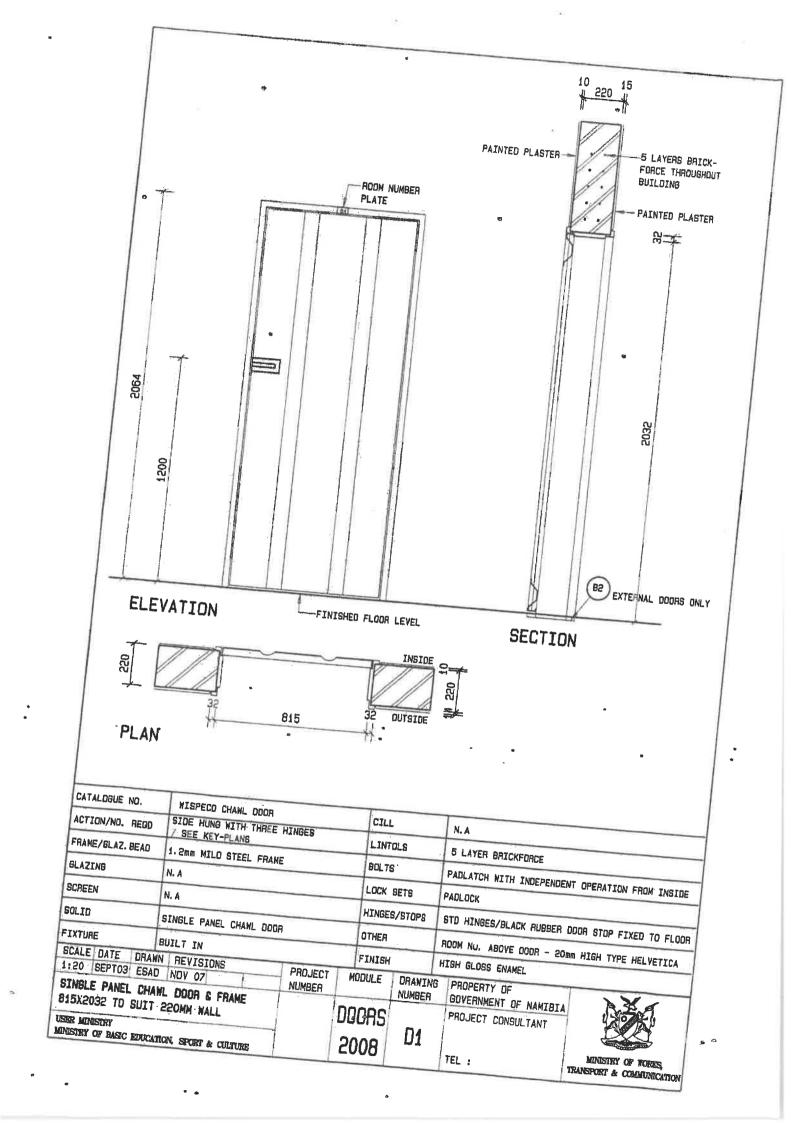
GENERAL PAINT SPECIFICATION

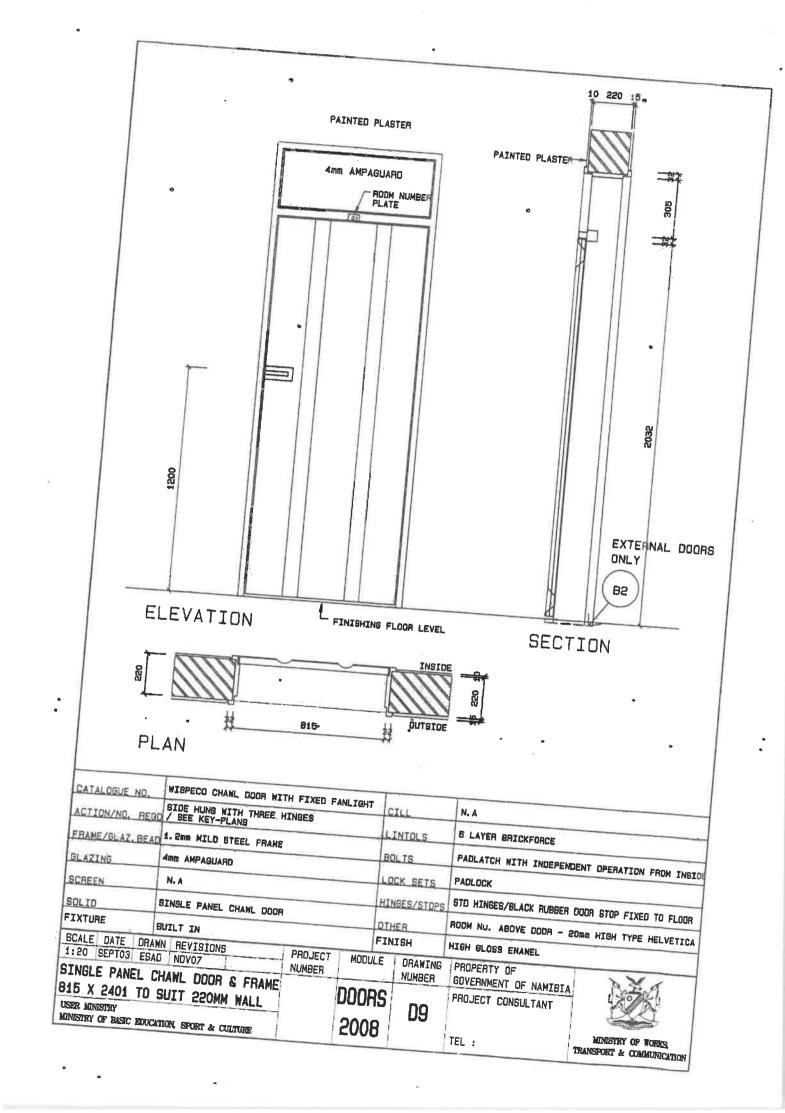
- 1. PAINT SPECIFICATION FOR INTERNAL PLASTERED WALLS, PRIMER & 2 COATS DOUBLE VELVET PAINT TO ALL INTERNAL WALLS OF CLASS ROOMS, OFFICES, STORES, CORRIDOR, BEDROOMS, ETC. THE PAINT SPECIFICATION MUST COMPLY WITH SABS REQUIREMENTS AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATION.

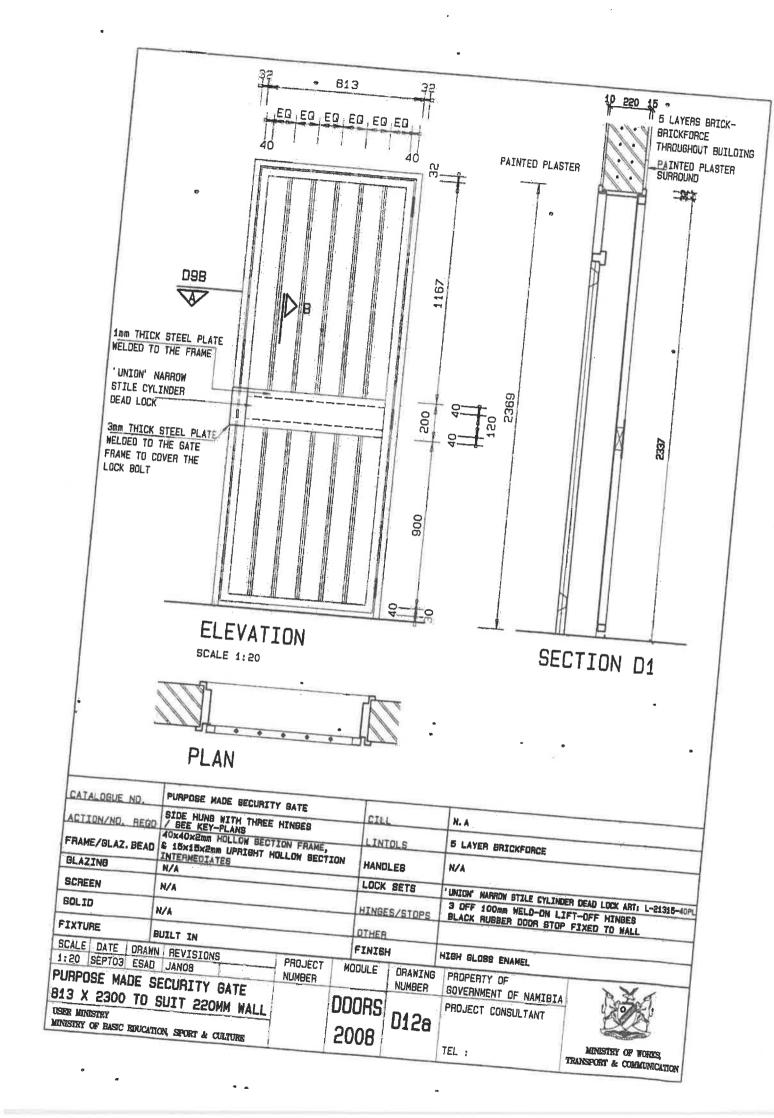
 ALL SHOWERS TO BE TILED TO CEILING HEIGHT WITH STANDARD 200x200 WHITE CERAMIC TILES.
- 2. WHERE SKIRTING SPECIFIED PAINTED ON PLASTERED WALL, PAINT MUST BE HIGH GLOSS ENAMEL.
- 3. ALL STEEL DOOR FRAME, CHAWL DOORLEAF AND WINDOW FRAMES MUST BE FACTORY PRIMED AND FINISHED WITH UNDER COAT AND TWO COATS HIGH GLOSS ENAMEL PAINT.
- 4. PAINT TO ALUZINC CEILING, ACRYLIC PVA WHITE, 2 COATS (PRIOR TO PAINT, CEILING MUST BE CLEANED WITH GALVANISED ROOF CLEANER)
- 5. ALL TRUSSES AND PURLINS AND EXPOSED STEELWORK MUST BE PRIMED WITH METAL PRIMER AND FINISHED WITH TWO COATS HIGH GLOSS ENAMEL.
- 6. EXTERNAL PAINT TO CONSIST OF PRIMER AND TWO COATS OF :
 EXTERIOR QUALITY PVA AND APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTION. ALL COLOURS MUST BE APPROVED BY PROJECT MANAGER OR REPRESENTATIVE OF THE CLIENT.

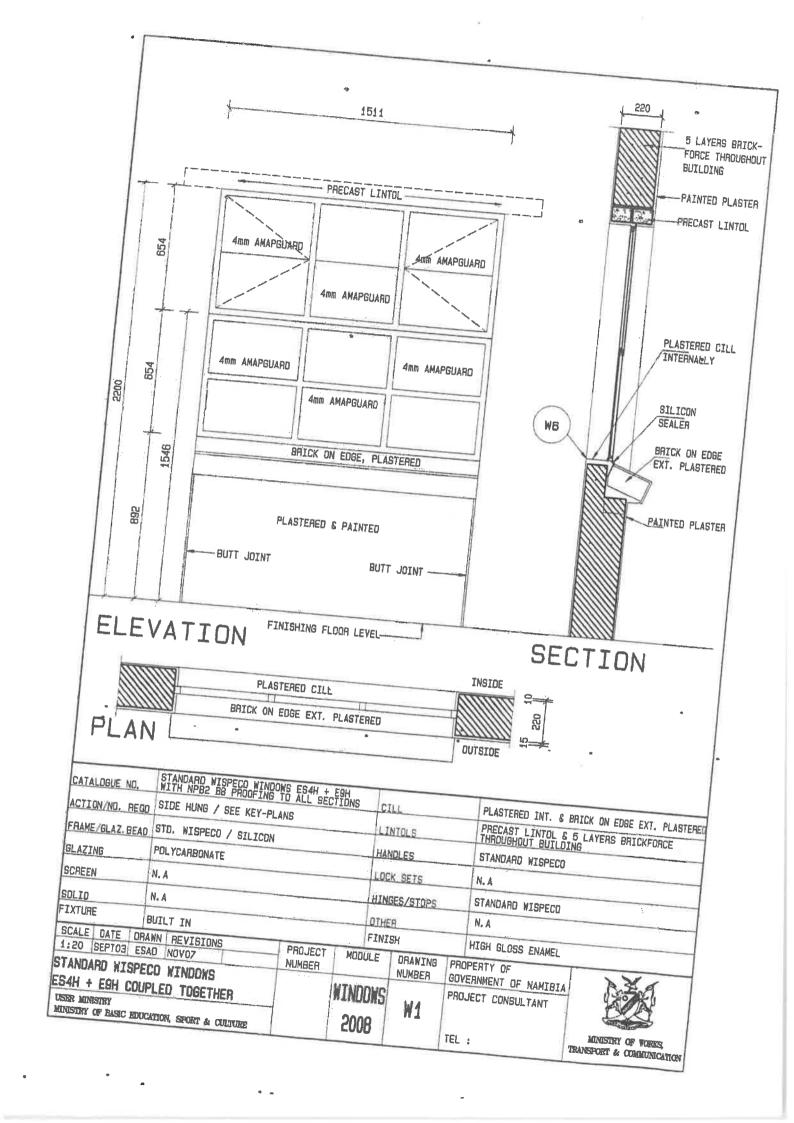
N/A SEPTO3 ESAD NOVO7	PROJECT	MODULE	DRAWING	PROPERTY OF	
PAINT SPECIFICATION USER MINISTRY		CONSTR. DETAILS	000	PROJECT CONSULTANT	
UNISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008	500	TEL :	MINISTRY OF WOR

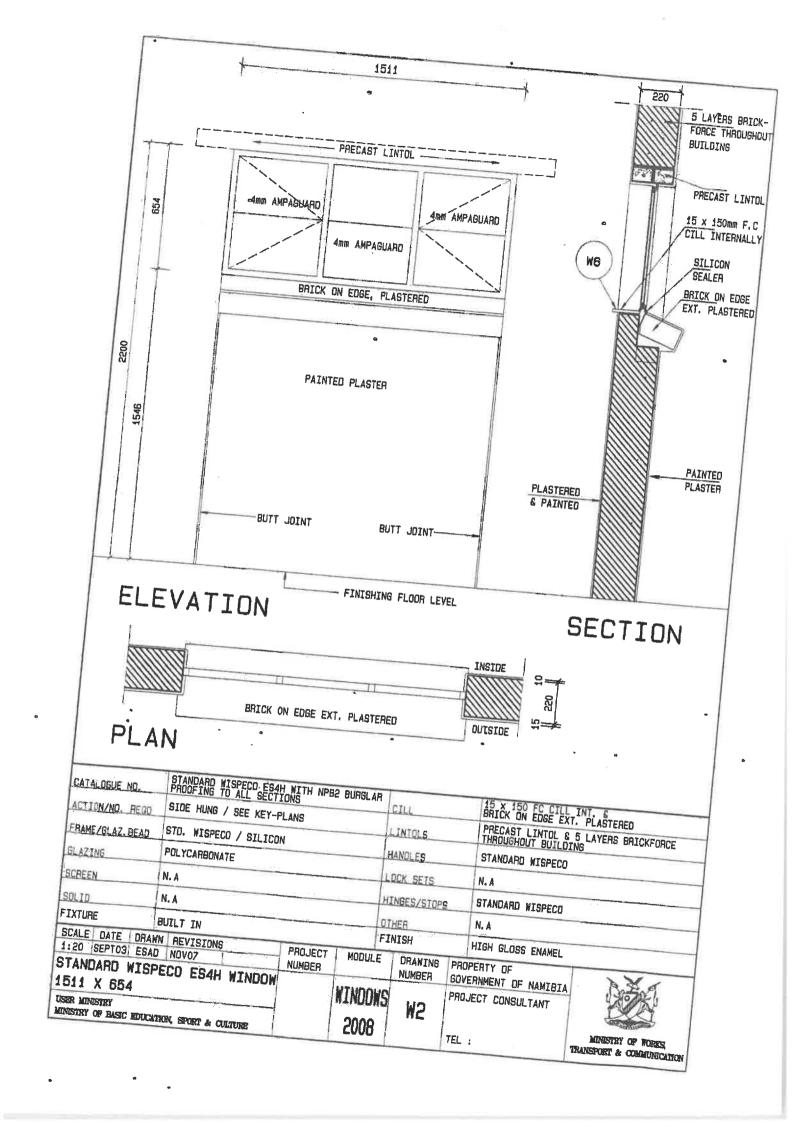


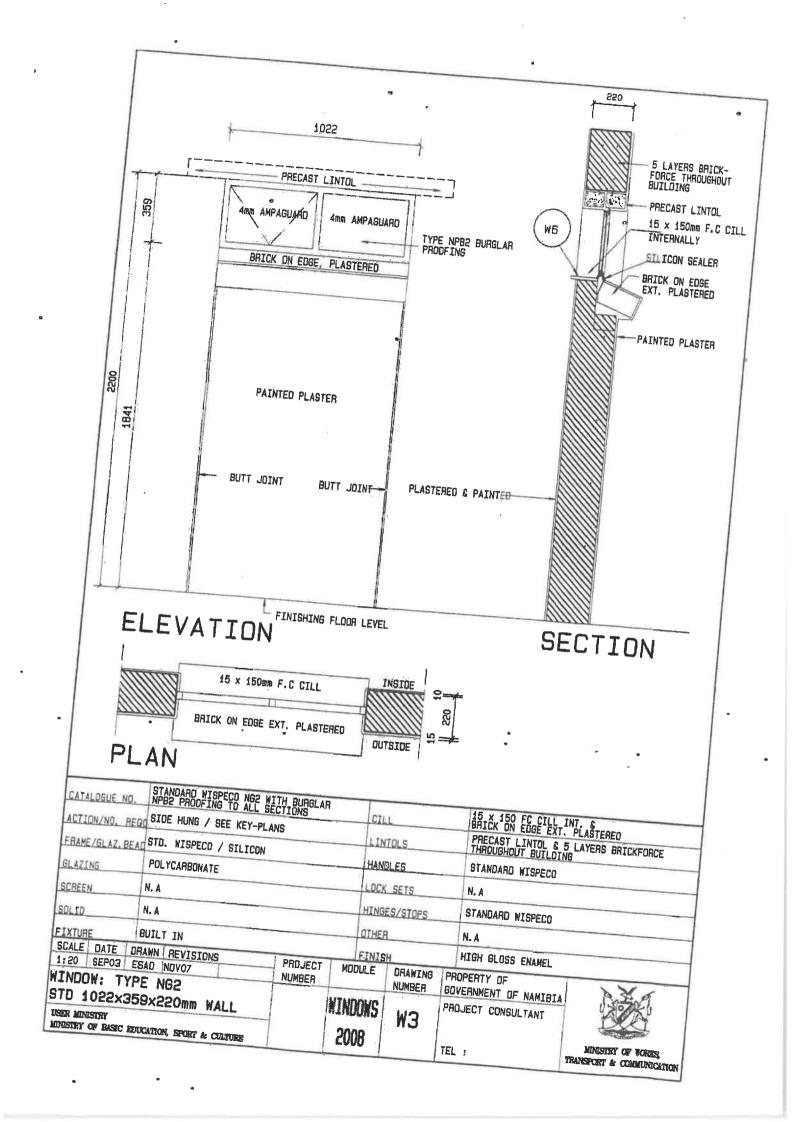












	-	DRAWING
•	@	DRAWING SYMBOLS BULKHEAD LUMINAIRE WITH CLEAR DIFFUSER AND 2xPL9 COOL WHITE LAMPS EDUAL OR OPEN CHANNEL STATE OF THE COOL WHITE LAMPS EDUAL OR
		APPHOVED TO LASCON 810-2016 AND 2XPL9 COOL WHITE LANDS
	(8)	OPEN CHANNEL SINGLE TUBE FLUORESCENT LUMINAIRE WITH TELESCOPIC LAMPHOLDERS OPEN CHANNEL DOUBLE CAMP EQUAL OR SIMILAR APPROVED TO LASCON PLANELS.
		AND 1x58W COOL WHITE LAMP EQUAL OR SIMILAR APPROVED TO LASCON R1-158SS
		OPEN CHANNEL DOUBLE TUBE FLUCRESCENT LUMINAIRE WITH TELESCOPIC LAMPHOLDERS AND 2x58W COOL WHITE LAMPS EQUAL OR SIMILAR APPROVED TO LASCON RA
		AND 2x58W COOL WHITE LAMPS EQUAL OR SIMILAR APPROVED TO LASCON R1-25888 MOTORISED SIREN, 230 V WITH AN APPROVED TO LASCON R1-25888
		MOTORISED STREWS AND AND AND AND LASCON RI-25889
		MOTORISED SIREN,° 230 V WITH AN AUDIBLE DISTANCE OF 1000m
	(E)	PTI OT 1 TOUT WAR
	-	PILOT LIGHT WITH RED LENS AND 230V 15W PIGMY LAMP
	6	184 STAICLE AND
		16A SINGLE LEVER ONE WAY LIGHT SWITCH, WHITE COVER PLATE, 1200mm AFFL
	€ 2L	18A TWO LEVER PLATE, 1200mm AFFL
•		18A TWO LEVER ONE WAY LIGHT SWITCH, WHITE COVER PLATE, 1200mm AFFL
	₹ 5A	164 STAICLE LEVEL AFFL
	-	16A SINGLE LEVER TWO WAY LIGHT SWITCH, WHITE COVER PLATE, 1200mm AFFL
	€ STSM	184 TWO LEW
	- want	16A TWO LEVER THO WAY LIGHT SWITCH, WHITE COVER PLATE, 1200mm AFFL
	€ 8P	184 GTUTE COVER PLATE, 1200mm AFFL
}		TOR SINGLE LEVER BELL PUSH LIGHT CHATCH
- 1		ELECTRICAL DISTRIBUTION BOARD STATE COVER PLATE, 1200mm AFFL
F		ELECTRICAL DISTRIBUTION BOARD, FLUSH MOUNTED ARCHITRAVE TYPE WHERE INSTALLED SHALL BE PAOLOCKABLE, COLOUR WHITE
- 1	0	INDOOR AND SEMI-RECESSED WEATHERPROOF TYPE WHERE INSTALLED SHALL BE PAULOCKABLE, COLOUR WHITE DAYLIGHT SMITCH 100
h		DAYLIGHT SWITCH, 10A, MOUNTED INSIDE EMPTY B10 BULKHEAD LIGHT FITTING
- 11	D8-8	CIRCUIT A DE DICTORO
1		CIRCUIT A OF DISTRIBUTION BOARD B
- 1	1	6A SINGLE SWITCHED SOCKET DUTLET 300mm AFFL (UNDERSIDE) EXCEPT WHERE
<u> </u>		THERWISE INDICATED, COLOUR WHITE
	16	A UDDAL E CM7TALLE
-	- 01	HERWISE INDICATED, COLOUR WHITE (UNDERSIDE) EXCEPT WHERE
1	다 Lo	W VOLTAGE OC TERMINALS WITH E A C. T.
. —	MUSE	W VOLTAGE OC TERMINALS WITH 5 A 2.5 KA MCCB 300mm AFFL (UNDERSIDE) EXCEPT
- 1	30A	DOUBLE POLE ISOLATOR FLUSH MOUNTED 1200mm AFFL (UNDERSIDE) AND 50mm Ø
	uui	LET BOX 200mm AFFL BEHIND STOVE FOR STOVE CONNECTION, COLDUR WHITE
1.	WP NHEE	DOUBLE POLE ISOLATOR WEATHERPADDF IP 56 SURFACE MOUNTED. KNDCKOUT HOLES
	art time	TE CONDUCTORS ENTER AND EVIT THE 56 SURFACE MINISTER AND EVIT THE
	CG EXCE	GOUGLE POLE ISOLATOR WEATHERPROOF IP 58 SURFACE MOUNTED. KNDCKOUT HOLES GOUGLE POLE CORD GRIP ISOLATOR FLUSH MOUNTED SEALED WITH SEALANT
		' MIGHE HINCOUTHS TOOK MIGHTER 4000
=	± ROOF,	1.5mx18mm & CODDER PVC CONDUIT CHASED THE
	TWENT	HING OF ROOF, 25mm Ø PVC CONDUIT CHASED IN WALL FROM 300mm BELOW NGL TO 1.5mx18mm Ø COPPER PLATED EARTH ROO INSTALLED 300mm BELOW NGL, 50mm 200x50mm OUTLET BOX WITH WHITE COVER BOLDED TO EARTH ROO.
	100x1	00x50mm OUTLET POY WAS AND CLAMPED TO EARTH ROD.
	_	00x50mm OUTLET BOX WITH WHITE COVER PLATE
	ann. i-	DX50mm DUTLET BOX FOR PRE-PAYMENT METER
	PVC CON	JX50mm OUTLET BOX WITH WHITE COVER STATE
SCALE [DATE DRAWN	OX50mm DUTLET BOX WITH WHITE COVER PLATE 300mm AFFL (UNDERSIDE) AND 20mm Ø REVISIONS PRO SCI 1700
N. T. S. J		
ALLEUT	HICAL LE	REALD PHOPERTY OF
USER MINIST	nnnrre -	SHEET 1 E PROJECT CONSIDERATE
		E 01
		SPORT & CULTURE 2008
		TRANSFORT & COLUMNICATION

DB-0	DRAWING SYMBOLS 100 VA, 230V AC TO 12V DC SWITCH MODE RECTIFIER POWER SUPPLY WITH LESS THAN SURFACE MOUNTED ENCLOSURE, COLDUR BEIGE 25mmø PVC CONDUIT
•	- 32mmø PVC CONDUIT
	50mm Ø PVC SLEEVE *
7.1	TELEPHONE DISTRIBUTION BOARD 510x410x110mm FLUSH INSTALLED, COLOUR WHITE
A	100x100x50mm OTLET BOX WITH WHITE COVER PLATE 300mm AFFL (UNDERSIDE) OR AS

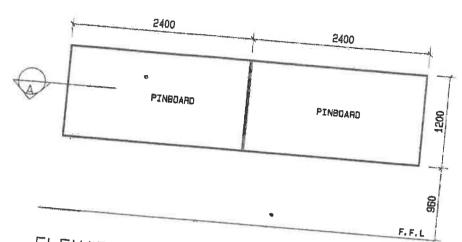
GENERAL NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE FLUSH MOUNTED IN ACCORDANCE WITH THE LATEST "SABS 0142": CODE OF PRACTICE FOR THE WIRING OF PREMISES. 2. ALL CONDUITS IN CEILING VOIDS SHALL BE BLACK MILD STEEL.
- 3. CONDUITS IN FLOORS TO BE PVC.
- 4. CONDUIT FROM FLOOR TO ANY OUTLET POINT SHALL BE PVC AND FROM ANY OUTLET
- 5. NO DRAW BOXES SHALL BE INSTALLED EXCEPT IF APPROVED BY THE ARCHITECT OR 6. ALL SWITCH GEAR TO BE RATED 5 KA.
- 7. LIGHT FITTINGS TO BE APPROVED BY ARCHITECT OR CLIENT PRIOR TO ORDERING.
- 8. METAL ROOFS TO BE EARTHED WITH 50mm SQ PVC INSULATED COPPER EARTHWIRE IN SEWW CONDUIT BETWEEN CEILING ADID AND 300WW BETOM CHORNO FEATURE TO SERVICE THE SERVICE TO SERVICE THE 1.5m LONG COPPER EARTH ELECTRODES AT THE CENTRE OF TWO SHORT SIDES OF THE EXTERNAL BUILDING WALLS. THE JOINT AT THE EARTH SPIKE TO BE PROPERLY
- 9. ALL DUTDOOR LUMINAIRES AND ISDLATORS SHALL BE SEALED WHERE CONDUCTORS
- ENTER AND EXIT THE ENCLOSURES TO PREVENT THE INGRESS OF INSECTS AND WATER. 10. ALL ITEMS TO BEAR THE SABS MARK IF AN SABS MARK EXISTS FOR THE ITEM

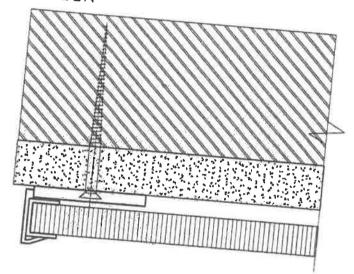
N. T. S. JULO3 ESAD ELECTRICAL LEGEND FOR	PROJECT NUMBER	MODULE	PHILIPPING	L. COLCELLY L. THE
ALL MODULES - SHEET 2 USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE		E 2008		PROJECT CONSULTANT



MINISTRY OF WORKS ANSPORT & COMMUNICATION



ELEVATION

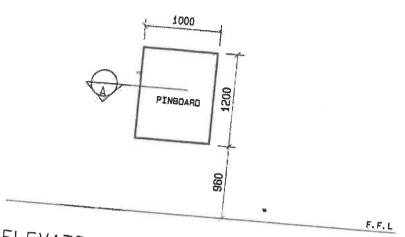


PLAN Scale 1:1

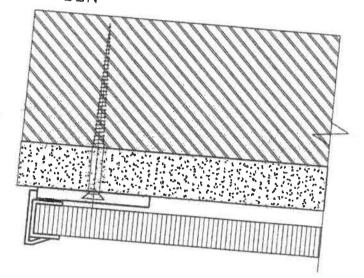
NOTE:

- 1. 2 OFF VITREX PINBOARD MODEL 2300 CODE: '2308' WITH ALUMINIUM FRAME PLUGGED AND SCREWED TO WALL WITH 38mm STEEL COUNTERSUNK SCREWS WHERE APPLICABLE
- 2. PINNING SURFACE STANDARD COLOUR 'MISTY' (LIGHT GREY)

SCALE DATE DRAWN REVISIONS 1:50 SEP03 ESAD JANOB PINBOARDS (2400×1200mm) USER MINISTRY MUNISTRY OF BASIC EDUCATION, SPORT & CULTURE	PROJECT NUMBER	MODULE FIXTURES 2008	MUMBEH	PROPERTY OF GOVERNMENT OF NAMIBIA PROJECT CONSULTANT	
				TEL:	MINISTRY OF WORKS, TRANSPORT & COMMUNICATION



ELEVATION



PLAN Scale 1:1

NOTE:

- 1. 1 OFF VITREX PINBOARD MODEL 2300 CODE: '2315' WITH ALUMINIUM FRAME PLUGGED AND SCREWED TO WALL WITH 38mm STEEL COUNTERGUNK SCREWS WHERE APPLICABLE
- 2. PINNING SURFACE STANDARD COLDUR 'MISTY' (LIGHT GREY)

SCALE DATE DRAWN REVISIONS 1:50 SEP03 ESAD JANOB PINBOARD (1000×1200mm) USER MINISTRY MINISTRY OF BASIC EDUCATION, SPORT & CULTURE	PROJECT NUMBER	HODDLE	NOWBEH	PROJECT CONSULTANT	
				TEL:	MINISTRY OF WORKS TRANSPORT & COMMUNICATION

	#				*	
•				49		
	and the second s	ONE-paragraphy	2700			e
	Mary Print - Apple					
			CHALKBOARD			1140
			,			
		FINTOU				088
_		11157	(NO FLOOR (EVEL		- Make make make make make make make make m
ELEVATION				•		
	•	*	u	•	:	
NOTE: VITREOUS ENAMELLED CHALKBOARD MAG COMPLY WITH SABS. SPECIFICATION C ALUMINIUM CHALK RAIL AND MOUNTED	NETIC STEI KS – 38 – TO WALL WI	EL SURFACE, 1980 SUPPL (TH STO. FI)	NON REFLE IED COMPLE KINB BRACK!	CTIVE TO TE WITH ETS.		
SCALE DATE DRAWN REVISIONS 1:20 SEP03 ESAD JANO8	PROJECT	MODULE	DD1m+:	T		
CHALKBOARD (2700 x 1440)	NUMBER		DRAWING NUMBER	PROPERTY OF GOVERNMENT OF NAMIBIA	P.Y.A	+
USER MINISTRY	,	FIXTURES		PROJECT CONSULTANT	120	1

PROJECT CONSULTANT

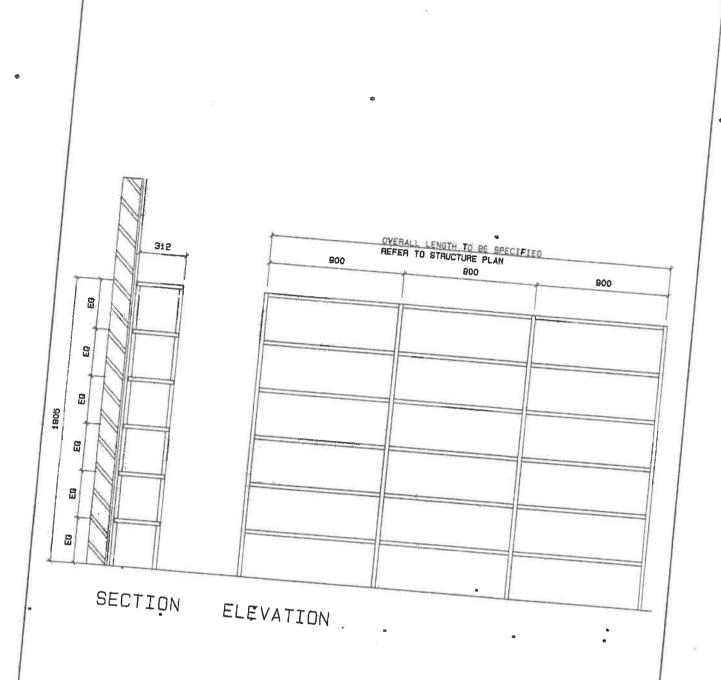
TEL:

MINISTRY OF WORKS,
TRANSPORT & COMMUNICATION

F4

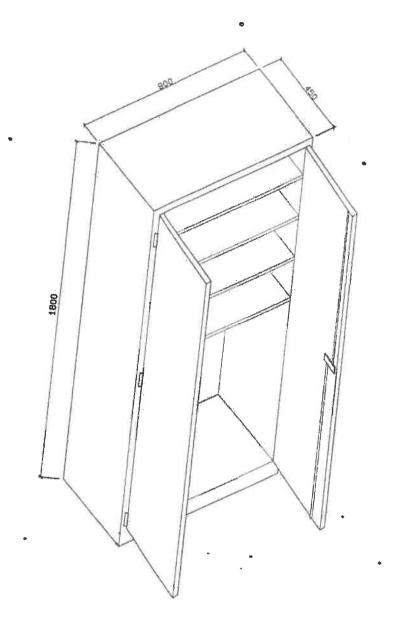
2008

USER MINISTRY
MINISTRY OF RASIC EDUCATION, SPORT & CULTURE



NOTE: 1. SHELVING TO BE OF APPROVED INDUSTRIAL TYPE.
2. SIDES & BACK TO BE CROSS BRACED AS REQUIRED.
3. SCREWS & NUTS TO BE SUPPLIED COMPLETE WITH SHELVES

1:25 SEP03 ESAD JANOB STD. MKU INDUSTRIAL SHELVING	PROJECT	MODULE	DRAWING	PROPERTY OF	
USER MINISTRU		FIXTURES	NUMBER	GOVERNMENT OF NAMIBIA PROJECT CONSULTANT	A TOTAL
ONISTRY OF BASIC EDUCATION, SPORT & CULTURE		2008	10	TEL :	MINISTRY OF WORKS TRANSPORT & COMMUNICAT



NOTE: 1. STANDARD STEEL TEACHERS CUPBOARD 900×450×1800mm ART NO. 5060 WITH 4 ADJUSTABLE SHELVES, EPOXY POWDER COATED 2. CUPBOARD TO BE FIXED TO WALL WITH (4X) 5×4 RAWL COACH SCREWS

SCALE DATE DRAWN REVISIONS			- GDAC	n SCHEWS
TEACHERS STEEL CUPBOARD	FIXTURES 2008	NUMBER	PROPERTY OF GOVERNMENT OF NAMIGI PROJECT CONSULTANT	
			ice ;	MINISTRY OF HORES. TRANSPORT & COMMUNICATION