



health

Department of
Health
North West Province
REPUBLIC OF SOUTH AFRICA

**PROVISIONAL
BILLS OF QUANTITIES
FOR**

**THE COMPLETION OF SEKHING COMMUNITY
HEALTH CENTRE**

TENDER NUMBER.: NWDOH/PS/019/11

**ISSUED BY: THE HEAD OF DEPARTMENT
DEPARTMENT OF HEALTH
CNR. SEKAME & FIRST STREET
NEW OFFICE PARK
MAHIKENG
2745
TEL: 018 391 4550**

BIDDERS NAME:	
CIDB REGISTRATION NUMBER:	
CSD REGISTRATION NUMBER:	
CONTACT NUMBER:	
TENDER AMOUNT	
TENDER AMOUNT IN WORDS	

MINIMUM CIDB GRADING 7GB



health

Department of
Health
North West Province
REPUBLIC OF SOUTH AFRICA

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE, DR. RUTH SEGOMOTSI MOMPATI DISTRICT IN THE NORTH WEST PROVINCE

PROVISIONAL BILLS OF QUANTITIES

SECTION 1 – PRELIMINARIES AND GENERALS

SECTION 2 – BUILDERS WORKS

SECTION 3 – PROVISIONAL SUMS

SECTION 4 – ELECTRICAL WORKS

SECTION 5 – ELETRONIC WORKS

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> MEANING OF TERMS "TENDER / TENDERER" Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" BUILDING AGREEMENT AND PRELIMINARIES The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described to be read in conjunction with the Contract Data issued with the tender. The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities / lump sum document, amended as hereinafter described The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only. Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable" Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents				
TENDERER'S SELECTIONS				
Before submission of his tender the contractor is to complete the tenderer's selections in the contract data for organs of state and other public sector bodies				
STRUCTURE OF THIS PRELIMINARIES BILL				
Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement				
Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries				
Section C : Any special clauses to meet the particular circumstances of the project				
PRICING OF PRELIMINARIES				
Should the contractor select Option A in the contract data for organs of state and other public sector bodies for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)				
PRICING OF BILLS OF QUANTITIES				
The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement.				
Carried to Collection			R	
Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

1	Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary VALUE ADDED TAX Provision is made in the summary page of these bills of quantities / lump sum document for the inclusion of Value Added Tax (VAT). <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>Definitions (A1)</u> DEFINITIONS AND INTERPRETATION Clause 1.0 The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			R
----------	---	--	--	--------------------------------------

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion. CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion . COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule. DEFAULT INTEREST: No Clause Clause 1.0 The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that not in the norm for the area where the construction takes place and during which no work is possible on site AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion. CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion . COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule.			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	DEFAULT INTEREST: No Clause GUARANTEE FOR CONSTRUCTION: A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD] INTEREST: The interest rates applicable on this contract whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State LETTER OF ACCEPTANCE: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer PAYMENT CERTIFICATE: A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3 PRINCIPAL AGENT: The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies TARGETED SUBCONTRACTORS: Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.	Item		
	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	Value Related	Item			
	Time Related	Item			
	<u>Objective and Preparation (A2 - A11)</u>				
2	LAW, REGULATIONS AND NOTICES				
	Clause 2.0				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
3	OFFER AND ACCEPTANCE				
	Clause 3				
	Replace Clause 3.3 with the following:				
	This agreement shall come into force on the date of				
	letter of acceptance and continue to be of force				
	and effect until the end of the latent defects liability				
	period [22.0] notwithstanding termination [29.0] or the				
	certification of final completion [21.0] and final				
	payment [25.0]				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Carried to Collection				
	Section No. 1				
	Section 1 - Preliminaries				
	Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES				
	BID NUMBER: NWDOH/PS/019/11				
			R		

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

4	CESSION AND ASSIGNMENT Clause 4 Ref Clause 6.7 [CD] - Clause 4.2 Replace Clause 4.3 with the following: Where a contractor cedes any right or any monies due to or to become due under this agreement as security in favour of a financial institution, the prior written consent of the employer, which consent shall not be unreasonably withheld, must be obtained. Fixed Value Related Time Related			
5	EMPLOYERS' AGENTS Clause 5.0 Replace last sentence of Clause 5.2 with the following: The original signed agreement shall be held by the Employer. Replace Clause 5.4 with the following: The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference. Replace Clause 5.5 with the following: The parties may publish or disclose on any platform only the contract scope and contract amount. Fixed Value Related			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

8	<u>INSURANCE AND SECURITIES</u> WORKS INSURANCE Clause 8.0 Replace Clause 8.4 with the following: The contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary Fixed Value Related Time Related			
		Item		
		Item		
		Item		
	9			
	INDEMNITIES Clause 9.0 Add the following to the end of the first sentence of Clause 9.2.7: “.... due to no fault of the contractor 9.2.9 No Clause 9.2.10 No Clause Add the following as clause 9.3: The employer's rights to claim damages for the contractor's omissions and actions will not be affected. Fixed Value Related Time Related			
		Item		
		Item		
		Item		
	10			
	INSURANCES Clause 10.0 Replace Clause 10.1 with the following: The party responsible shall effect and keep the Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

	respective insurances [CD] in force, in favour of the employer as beneficiary , from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.2] Add the following as Clause 10.1.5.1: Hi Risk Insurance In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply Add the following as Clause 10.1.5.1.1 Damage to the works The contractor shall, from the date of possession of the site until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs 10.1.5.1.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site,			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract 10.1.5.1.3 Replace Clause with the following: It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of letter of acceptance, but before commencement of the works, submit to the employer proof of such insurance policy. 10.1.5.1.4 Replace Clause with the following: The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole 10.2 Replace Clause with the following: Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary 10.6 No Clause Add the following as Clause 10.11 In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay Fixed Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		Item	R	
--	--	------	---	--

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	Value Related	Item		
	Time Related	Item		
11	SECURITIES Clause 11 Add the following as to the relevant related Clauses follows: Add the following to Clause 11.1: In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT). In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected. The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5 11.1.1 No Clause 11.1.2 No Clause 11.2.2 No Clause 11.3 No Clause Replace Clause 11.4.1 with the following: Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10. Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	11.5 No Clause 11.6 No Clause 11.7 No Clause 11.8 No Clause 11.9 No Clause 11.10 No Clause Add the following as Clause 11.11: Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: Add the following as Clause 11.11.1: The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Add the following as Clause 11.11.2: The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor. Add the following as Clause 11.11.3: Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor Add the following as Clause 11.11.4: Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor. Add the following as Clause 11.11.5: On the date of payment of the amount in the final payment certificate, the employer shall refund the Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

	remainder of the cash deposit to the contractor. Add the following as Clause 11.11.6: The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party. Add the following as Clause 11.12: Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected: Add the following as Clause 11.12.1: The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Add the following as Clause 11.12.2: The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender. Add the following as Clause 11.12.3: The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring. Add the following as Clause 11.12.4: Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee. Add the following as Clause 11.13: Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected: Add the following as Clause 11.13.1: The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT). Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11	Add the following as Clause 11.13.2: The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion. Add the following as Clause 11.13.3: The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring. Add the following as Clause 11.13.4: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5. Add the following as Clause 11.13.5: Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or from both. Add the following as Clause 11.14.1: Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected Add the following as Clause 11.14.2: The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Add the following as Clause 11.14.3: Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor. Add the following as Clause 11.14.4: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5. Add the following as Clause 11.14.5: Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both. Carried to Collection			R
---	--	--	--	--------------------------------------

	Add the following as Clause 11.15: Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected. Add the following as Clause 11.15.1: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10. Add the following as Clause 11.15.2: The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor. Add the following as Clause 11.16: Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement. Add the following as Clause 11.17: Should the contractor fail to furnish the security in terms of 11.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT). Add the following as to the relevant related Clauses as follows: Add the following to Clause 11.1: In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT). In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected. The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5 11.1.1 No Clause 11.1.2 No Clause 11.2.2 No Clause 11.3 No Clause Replace Clause 11.4.1 with the following: Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10. 11.5 No Clause 11.6 No Clause 11.7 No Clause 11.8 No Clause 11.9 No Clause 11.10 No Clause Add the following as Clause 11.11: Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: Add the following as Clause 11.11.1: The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

	Add the following as Clause 11.11.2: The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor. Add the following as Clause 11.11.3: Within fifteen (15) working days of the date of practical to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor Add the following as Clause 11.11.4: Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor. Add the following as Clause 11.11.5: On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor. Add the following as Clause 11.11.6: The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party. Add the following as Clause 11.12: Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected: Add the following as Clause 11.12.1: The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Add the following as Clause 11.12.2: The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

	Add the following as Clause 11.12.3: The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring. Add the following as Clause 11.12.4: Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee. Add the following as Clause 11.13: Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected: Add the following as Clause 11.13.1: The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT). Add the following as Clause 11.13.2: The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion. Add the following as Clause 11.13.3: The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring. Add the following as Clause 11.13.4: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of Add the following as Clause 11.13.5: Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or from both. Add the following as Clause 11.14.1: Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selecte			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

	Add the following as Clause 11.14.2: The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. Add the following as Clause 11.14.3: Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor. Add the following as Clause 11.14.4: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5. Add the following as Clause 11.14.5: Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both. Add the following as Clause 11.15: Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected. Add the following as Clause 11.15.1: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10. Add the following as Clause 11.15.2: The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor. Add the following as Clause 11.16: Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement. Add the following as Clause 11.17: Should the contractor fail to furnish the security in terms of 11.2 the employer, in his sole discretion,			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>EXECUTION (A12 - A17)</u>				
12	OBLIGATIONS OF THE PARTIES				
	Clause 12.0				
	12.1.1 No Clause				
	Replace Clause 12.1.5 with the following: Give possession of the site to the contractor within ten the issue of a construction permit by the Department of 12.2.22				
	12.1.6 No Clause				
	12.1.8 No Clause				
	Replace Clause 12.2.2 with the following: The priced Bills must be submitted to the Employer with priced document contains errors or discrepancies and/ imbalanced or unreasonable the employer or principal agree to the contract sum				
	Replace Clause 12.2.5 with the following : Effect and keep in force insurances in favour of the providing insurances [10.0) [CD]				
	Replace Clause 12.2.13 with the following: Designate a competent person full time on site to continue implement notices and contract instructions on behalf of				
	Add the following as Clause 12.2.22: Within fourteen (14) working days of the date of the letter and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No. 94 of 1993)				
	Add the following as Clause 12.2.23: The contractor shall within reasonable time inform the employer of the progress of the work in accordance with the programme of work.				
	Carried to Collection			R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

13	Offices The contractor shall provide, maintain and remove on principal agent, minimum size 4 x 3 x 3m high internal and fitted with boarded floor, desk, chair, drawing stool, be kept clean and fit for use at all times [12.2.18] F:..... V:..... T:..... Main notice board The contractor shall provide, erect where directed, main x 3m as type Drawing GEN 063, constructed of suitable thick round outer edges and projecting 12mm from face securely fixed to hoarding, where hoarding is provided, tubular posts and braces. The board is to be painted ivory wording shall be inscribed in dark green as per the coat sans serif lettering [12.2.18] Fixed Value Related Time Related SETTING OUT Clause 13.0 Fixed Value Related Time Related Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				
		Item			
		Item			
		Item			
		Item			
		Item			
		Item			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

14	NOMINATED SUBCONTRACTORS				
	Clause 14.0				
	Ref Clause 6.7 [CD] - Clause 14.1.4				
	14.1.5 No Clause				
	Replace "principal agent " with "employer" [6.7 [CD]] in Clause 14.4.1				
	Ref Clause 6.7 [CD] - Clause 14.6				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
15	SELECTED SUBCONTRACTORS				
	Clause 15.0				
	Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5				
	15.1.5 No Clause				
	Replace Clause 15.1.2 with the following: The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer				
	Replace "principal agent " with "employer" [6.7 [CD]] in Clause 15.4.1				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
16	DIRECT CONTRACTORS				
	Clause 16				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Carried to Collection			R	
	Section No. 1				
	Section 1 - Preliminaries				
	Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES				
	BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

17	CONTRACT INSTRUCTIONS Clause 17.0 Replace Clause 17.4 with the following: The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21 Add the following clause as Clause 17.6: Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement. Fixed Value Related Time Related <u>COMPLETION (A18-A24)</u>			
18	INTERIM COMPLETION Clause 18.0 Fixed Value Related Time Related			
19	PRACTICAL COMPLETION Clause 19.0 Replace Clause 19.5 with the following: On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section Add the following as Clause 19.8: WORKS COMPLETION (1) Within seven (7) calendar days of the date of Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion. (2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list: (2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer (2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2) (3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer: (3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date (3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
--	--	--	--	--

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

	such items have been completed to the satisfaction of the employer (4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0 (5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3). Fixed Value Related Time Related	Item Item Item			
20	COMPLETION IN SECTIONS Clause 20.0 Add the following as Clause 20.2.1.A A certificate of Works Completion [19.8] Fixed Value Related Time Related	Item Item Item			
21	DEFECTS LIABILITY PERIOD AND FINAL COMPLETION Clause 21.0 Replace Clause 21.1 with the following: The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6], whichever is the later (if we use works completion) Replace Clause 21.6 with the following: On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with				
	Carried to Collection			R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent				
And/or On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall: (1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or (2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired				
21.6.1 Omit Clause				
21.6.2 Omit Clause				
Add the following as Clause 21.13: The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14				
Add the following as Clause 21.14: Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0]				
Fixed		Item		
Value Related		Item		
Time Related		Item		
Carried to Collection			R	
Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

22	LATENT DEFECTS LIABILITY PERIOD Clause 22.0 22.3.2 No Clause Fixed Value Related Time Related	Item		
23	REVISION OF THE DATE FOR PRACTICAL COMPLETION Clause 23.0 Ref Clause 6.7 [CD] – Clause 23.1 Ref Clause 6.7 [CD] – Clause 23.2 23.2.13 No Clause Replace Clause 23.3 with the following: Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD] Ref Clause 6.7 [CD] - Clause 23.7 Ref Clause 6.7 [CD] - Clause 23.8 Fixed Value Related Time Related	Item		
	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

24	PENALTY FOR LATE OR NON-COMPLETION Clause 24.0 Replace Clause 24.1 with the following: Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final- completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD] Replace Clause 24.2 with the following: Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [CD], or the revised date for practical- works-, or final- completion, up to and including the earlier of: Replace Clause 24.2.1 with the following: The actual or deemed date of practical- works-, or final- completion, of the works, or a section thereof [23.7.1] Fixed Value Related Time Related <u>PAYMENT (A25-A27)</u>			
25	PAYMENT Clause 25.0 Replace Clause 25.2 with the following: The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount Add the following to Clause 25.3: 25.3.12 Monthly Local content report, 25.3.13 EPWP / NYS payment register, labour reports Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable) 25.3.14 Tax Invoice 25.3.15 Labour intensive report 25.3.16 Contract participation goal reports 25.5 No Clause Replace Clause 25.6 with the following: Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer. 25.7.5 No clause. Replace Clause 25.10 with the following: The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate Replace Clauses 25.12 to 25.12.3 with the following: The value certified shall be subject to the following percentage adjustments : (Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable) 25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	date of practical completion 25.12.3 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 25.12.4 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26 25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate. (Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0]) 25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion 25.12.8 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 25.12.9 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26 25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except were the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

26	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	ADJUSTMENT TO CONTRACT VALUE				
	Clause 26.0				
	Ref Clause 6.7 [CD] – Clause 26.1				
	Omit Clause 26.4.3				
	Ref Clause 6.7 [CD] – Clause 26.7				
	Replace Clause 26.10 with the following: The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion				
	Ref Clause 6.7 [CD] – Clause 26.12				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Carried to Collection				
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

27	RECOVERY OF EXPENSE AND OR LOSS Clause 27.0 Replace Clause 27.1.2 with the following: Interest due to late payment only 27.1.4 No Clause 27.1.5 No Clause Replace Clause 27.5 with the following: Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security Add the following as Clause 27.6: Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security Fixed Value Related Time Related Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
----	---	--	--	--

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

28	<u>SUSPENSTION AND TERMINATION (A28-A29)</u> SUSPENSION BY CONTRACTOR Clause 28.0 28 No Clause 28.1 No Clause 28.1.1 No Clause 28.1.2 No Clause 28.1.3 No Clause 28.1.4 No Clause 28.1.5 No Clause 28.2 No Clause 28.3 No Clause 28.4 No Clause Fixed Value Related Time Related			
	29 TERMINATION Clause 29.0 Add the following as Clause 29.1.4: The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa Add the following as Clause 29.1.5: The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract Add the following as Clause 29.1.6: Honour his obligations in terms of Clauses 10.1.5.1.3, 11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22. Replace Clause 29.7 with the following: The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	the remaining work [25.3.7; 27.1.3] Replace Clause 29.9 with the following: The employer has the right of recovery against the contractor, where applicable, [CD] from: The guarantee for construction (variable) until the final payment has been made; or The guarantee for construction (fixed) until the date of practical completion; or The payment reduction until the final payment is made; or The cash deposit made as security until the final payment is made 29.14.1 No Clause 29.14.3 No Clause 29.14.4 No Clause 29.14.5 No Clause 29.14.6 No Clause 29.14.7 No Clause 29.15 No Clause 29.16 No Clause 29.17.3 No Clause 29.17.6 No Clause 29.21.5 No Clause 29.22 No Clause 29.23 No Clause Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				
			R		

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

30	<u>DISPUTE RESOLUTIONS (A30)</u> DISPUTE AND RESOLUTIONS Clause 30.0 Replace Clause 30.2 with the following: Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation 30.3 to 30.7.7 No Clauses Replace Clause 30.8 with the following: The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event: 30.8.1 No Clause Replace Clause 30.8.2 with the following: The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties Replace Clause 30.8.3 with the following: Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses Replace Clause 30.9 with the following: Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse 30.10 No Clause 30.12 No Clause Fixed Value Related Time Related <u>SECTION B: PRELIMINARIES</u> Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>Definition and interpretation (B1)</u>					
31	Definition and interpretation				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
32	Interpretation				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
<u>Documents (B2)</u>					
33	Checking of documents (B2.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
34	Provisional bills of quantities (B2.2)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
35	Availability of construction information (B2.3)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
36	Ordering of materials and goods				
	Fixed	Item			
Carried to Collection				R	
Section No. 1					
Section 1 - Preliminaries					
Bill No 1 - Preliminaries					
PROVISIONAL BILL OF QUANTITIES					
BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	Value Related	Item			
	Time Related	Item			
	<u>Previous Works and Adjoining Properties (B3)</u>				
37	Previous work - dimensional accuracy (B3.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
38	Previous work - defects (B3.2)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
39	Inspection of the adjoining properties (B3.3)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>The site (B4)</u>				
40	Handing over of site in stages (B4.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
41	Enclosure of the works (B4.2)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	Carried to Collection		R		
	Section No. 1				
	Section 1 - Preliminaries				
	Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES				
	BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

42	Geotechnical and other investigation (B4.3)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
43	Encroachments (B4.4)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
44	Existing premises occupied (B4.5)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
45	Services - known (B3.7)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Management of the works (B5)</u>				
46	Management of the works (B5.1)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
47	Progress Meetings (B5.2)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	Carried to Collection			R	
	Section No. 1				
	Section 1 - Preliminaries				
	Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES				
	BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

48	Technical meetings (B5.3)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B5)</u>				
49	Samples of materials (6.1)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
50	Workmanship samples (B6.2)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
51	Shop drawings (B6.3)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
52	Compliance with manufacturer's instructions (B6.4)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Deposits and Fees (B7)</u>				
53	Deposits and fees (B7.1)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	Carried to Collection			R	
	Section No. 1				
	Section 1 - Preliminaries				
	Bill No 1 - Preliminaries				
	PROVISIONAL BILL OF QUANTITIES				
	BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>Temporary services (B8)</u>					
54	Water (B8.1)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
55	Electricity (B8.2)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
56	Ablution facilities (B8.3)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
57	Communication facilities (B8.4)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
<u>Prime cost amounts (B9.1)</u>					
58	Responsibility for prime cost amounts (B9.1)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
					</

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

59	<u>Attendance on subcontractors (B10)</u>			
	General attendance (B10.1)			
	The contractor shall at his own expense provide the following general attendance on the subcontractors :			
	Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor .			
	The provision of water and lighting and single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation.			
	The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials			
	The use of erected scaffolding belonging to the contractor , in common with others having the like right, while it remains erected on the site .			
	The use, at reasonable times by arrangement of the contractor's erected hoisting equipment.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	60 Special attendance (B10.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
61	<u>General (B11)</u>			
	Protection of works (B11.1)			
	Fixed	Item		
	Value Related	Item		
	Carried to Collection		R	
Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

		Time Related	Item		
62	Protection/isolation of existing/sectionally occupied works(B11.2)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
63	Site security (B11.3)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
64	Notice before covering work (B11.4)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
65	Disturbance (B11.5) The contractor shall keep the site , structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
66	Environmental disturbance (B11.6)	Fixed	Item		
		Time Related	Item		
		Value Related	Item		
67	Works cleaning and clearing (B11.7)	Fixed	Item		
	Carried to Collection			R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

		Value Related	Item		
		Time Related	Item		
68	Vermin (B11.8)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
69	Overhand work (B11.9)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
70	Tenant installations (B11.10)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
71	Advertising (B11.11)	Fixed	Item		
		Value Related	Item		
		Time Related	Item		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>					
Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item					
Carried to Collection				R	
Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

72	Clause C1 - Contract drawings * Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a bills of quantities or lump sum document. * The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. * A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself 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 understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent. Fixed Value Related Time Related			
73	Clause C2 - Preambles The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used. The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" is issued together with the drawings and shall be read in conjunction with the drawings and the bills of quantities / lump sum document. Fixed Value Related Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	Time Related	Item		
74	Clause C3 - Trade Names Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer'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 tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
75	Clause C4 - Imported Materials Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried to Collection		R	
	Section No. 1			
	Section 1 - Preliminaries			
	Bill No 1 - Preliminaries			
	PROVISIONAL BILL OF QUANTITIES			
	BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

76	Clause C5 - Viewing the site in security areas The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes. Fixed Value Related Time Related	Item		
77	Clause C6 - Commencement of work in security areas As the works falls within a security area the contractor must give the unit commander or other responsible officer notice 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 Fixed Value Related Time Related	Item		
78	Clause C7 - Entrance permits to security areas As the works falls 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 the control of the Defence Force, Police or chief security officer. Fixed Value Related Time Related	Item		
	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

79	Clause C8 - Security Check or Personnel 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. Fixed Value Related Time Related			
80	Clause C9 - Prohibition of taking photographs 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 of photographs except when authorized 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 Fixed Value Related Time Related			
	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

81	Clause C10 - HIV/AIDS AWARENNES It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Fixed Value Related Time Related			
82	Clause C10.1 - Awareness Champion Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

83	Clause C10.2 - Awareness Workshop Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item		
84	Clause C10.3 - Posters, booklets, videos, etc. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item		
85	Clause C10.4 - Access to Condoms Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item		
	Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

86	Clause C10.5- Monitoring Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item		
87	Clause C11 - Occupational Health Safety The contractor shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. Fixed Carried to Collection Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11	Item	R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	Value Related	Item		
	Time Related	Item		
88	Clause C12 - EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS) The contractor shall comply with all the requirements as set out in the "Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)" as attached to these bills of quantities / lump sum document. The contractor shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these bills of quantities / lump sum document. The contractor shall liaise and co-ordinate with the employer and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers. The contractor shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers. Separate items which will be subject to remeasurement have been included elsewhere in these bills of quantities / lump sum document to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained, Fixed			
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

89	Value Related	Item		
	Time Related	Item		
	Clause C13 - IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)			
	The contractor shall comply with all the requirements of the "Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes" issued in terms of the "Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)" and the related "Ministerial Determination", for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP).			
	The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)".			
	Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried to Collection		R	
	Section No. 1 Section 1 - Preliminaries Bill No 1 - Preliminaries PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 1				
Bill No. 1				
Bill No 1 - Preliminaries				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	1			
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			
Total Brought Forward from Page No.	6			
Total Brought Forward from Page No.	7			
Total Brought Forward from Page No.	8			
Total Brought Forward from Page No.	9			
Total Brought Forward from Page No.	10			
Total Brought Forward from Page No.	11			
Total Brought Forward from Page No.	12			
Total Brought Forward from Page No.	13			
Total Brought Forward from Page No.	14			
Total Brought Forward from Page No.	15			
Total Brought Forward from Page No.	16			
Total Brought Forward from Page No.	17			
Total Brought Forward from Page No.	18			
Total Brought Forward from Page No.	19			
Total Brought Forward from Page No.	20			
Carried Forward			R	
Section No. 1				
Section 1 - Preliminaries				
Bill No 1 - Preliminaries				
PROVISIONAL BILL OF QUANTITIES				
BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 1				
Bill No. 1				
Bill No 1 - Preliminaries				
<u>COLLECTION</u>				
	Page No		Amount	
Brought Forward		R		
Total Brought Forward from Page No.	21			
Total Brought Forward from Page No.	22			
Total Brought Forward from Page No.	23			
Total Brought Forward from Page No.	24			
Total Brought Forward from Page No.	25			
Total Brought Forward from Page No.	26			
Total Brought Forward from Page No.	27			
Total Brought Forward from Page No.	28			
Total Brought Forward from Page No.	29			
Total Brought Forward from Page No.	30			
Total Brought Forward from Page No.	31			
Total Brought Forward from Page No.	32			
Total Brought Forward from Page No.	33			
Total Brought Forward from Page No.	34			
Total Brought Forward from Page No.	35			
Total Brought Forward from Page No.	36			
Total Brought Forward from Page No.	37			
Total Brought Forward from Page No.	38			
Total Brought Forward from Page No.	39			
Carried Forward		R		
Section No. 1				
Section 1 - Preliminaries				
Bill No 1 - Preliminaries				
PROVISIONAL BILL OF QUANTITIES				
BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 1			
Bill No. 1			
Bill No 1 - Preliminaries			
<u>COLLECTION</u>			
	Page No	R	Amount
Brought Forward			
Total Brought Forward from Page No.	40		
Total Brought Forward from Page No.	41		
Total Brought Forward from Page No.	42		
Total Brought Forward from Page No.	43		
Total Brought Forward from Page No.	44		
Total Brought Forward from Page No.	45		
Total Brought Forward from Page No.	46		
Total Brought Forward from Page No.	47		
Total Brought Forward from Page No.	48		
Total Brought Forward from Page No.	49		
Total Brought Forward from Page No.	50		
Total Brought Forward from Page No.	51		
Total Brought Forward from Page No.	52		
Total Brought Forward from Page No.	53		
Total Brought Forward from Page No.	54		
Carried to Final Summary		R	
Section No. 1			
Section 1 - Preliminaries			
Bill No 1 - Preliminaries			
PROVISIONAL BILL OF QUANTITIES			
BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 1</u> <u>DEMOLITIONS</u> <u>(WORK GROUP 102)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u>			
	<u>SUPPLEMENTARY PREAMBLES</u> <u>Allow for the following requirements to the satisfaction of the Principal Agent</u> <u>Site visit</u> Tenderers are to visit and view the site and existng structures to be demolished to thoroughly acquaint themselves with the nature of demolitions, the nature and extent of the work and the conditions under which the works are to be done <u>Existing structures</u> In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the adjoining buildings and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage, deforming and/or defaced to the structure and/or building as well as the rectification of same will be for the Contracor's account.			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Existing Services</u> Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. Any damage to such services shall be to the contractors account <u>Dust and noise</u> The Contractor is to take all necessary precautions, to minimise noise levels and frequently watering of the works to minimise any nuisance from dust and to ensure the least interference with the general routine of the occupants and operation of the premises including all necessary labour, materials, etc. for so doing and <u>Disposal of debris</u> The Contractor shall be responsible for the regular cleaning away all rubble, debris, rubbish, unusable materials, etc. as the work proceeds and for leaving the works in a clean and satisfactory state upon completion suitable for use and occupation, including all necessary labour, materials or plant, etc. for so doing <u>Old materials</u> Old materials from the alterations, except where described shall remain the property of the client. <u>Old materials to be carted away</u> Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.			
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

	<u>Handing over of materials</u> Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor. <u>Temporary support to openings through existing walls</u> Making openings, altering openings in existing walls and removing lintols above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling strutting, turning pieces, etc. to wall openings is deemed to be included in the Contractor's rates. <u>Electrical And Mechanical</u> Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included. Contractor to note items with barcodes (asset numbers) cannot be removed without prior arrangement with authorities NOTE:- Contractor to note that items with barcodes, cannot be dosposed or removed from site prior to arranging with Hospital Authorities			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>TEMPORARY BARRIERS, SCREENS, ETC</u>					
<u>Temporary barriers, screens, etc including removal on completion (LI)</u>					
1	Supply, erect, alter as necessary, maintain all necessary suitable hoardings approximately 2,7m high complete with temporary tarpaulins, fencing, safety screens, barriers, guard railing, access gates, etc. as necessary during the progress of the works and the protection of the occupants of the premises, including all necessary labour, materials, etc for so doing and remove same upon completion when so directed.	m	524.00		
<u>REMOVAL OF EXISTING WORK (LI)</u>					
<u>NOTE: All materials from demolitions/excavations marked from carting away shall be cart at designated Municipal dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</u>					
<u>Taking up and removing vinyl tiles/sheeting floor coverings, ceramic tiles, concrete tiles, carpeting, etc (LI)</u>					
2	Floor tiles including preparing floor to receive new floor finish (elsewhere measured)	m2	206		
3	Vinyl tile/sheeting floor covering including preparing screed for new floor covering (elsewhere)	m2	576		
<u>Hacking up/off and removing ceramic tile wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new plaster or tile finishes (LI)</u>					
4	Wall Ceramic tiles splashback	m2	67		
<u>Taking up and removing paint and prepare surfaces to receive new paint (elsewhere measured) (LI)</u>					
5	Remove defective plaster from walls, open cracks and prepare to receive new plaster (elsewhere measured)	m2	636		
6	Chasing walls 50mm wide	m	318		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Remove loose paint by scraping, grinding and clean existing wall substrate plater with suger soap powder and fill all indents with polycell Polyfilla. Sand smooth when dry (Elsewhere measured) and cart away all materials arising (LI)</u>				
7	Internal walls	m2	568		
8	Remove paint from wall and prepare to receive vinyl sheeting	m2	42		
	<u>Taking out and removing doors, windows, etc from half brick wall to be demolished and making good of surfaces where removed.</u>				
9	Single door.	No	6		
	<u>Taking out and removing doors, windows, and accessories and making good of surfaces where removed.</u>				
10	Remove weather seal/strip (915mm) fixed to inside of door and refit to the outside of the door leaf	No	29		
11	Remove existing door closer form door and make good to frame	No	2		
12	Remove and re-hang aluminium door size 900 x 2032 mm to align with frame	No	6		
13	Fix and make good damaged area on solid core flush panel door	No	9		
14	Clean and service existing flat friction stays to open and close smoothly	No	84		
	<u>Breaking down and removing brickwork etc. and making good of surfaces where removed.</u>				
15	One brick wall	m2	15		
16	Remove existing paving bricks, lower earth lever and reinstall paving.	m2	65		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>Taking out and removing brick built in cupboards, kitchen units, tops, etc (LI) and other carpentry works</u>				
17	Counter table 1800mm long x 600mm wide x 880mm high	No	1	
<u>Taking out and removing sanitary fittings and making good of surfaces where removed.</u>				
18	Single bowl sink size 900x535mm including fittings, pipes, etc.	No	2	
19	Reposition existing slophopper to new height	No	4	
20	Carefully take out and remove WC including fittings, pipes, etc.	No	5	
21	Carefully take out and remove WHB including fittings, pipes, etc.	No	1	
22	Carefully take out shower tray	No	4	
23	Remove concealed gutter and inspect waterproofing membrane for damage and make good to all trades and re-nail to rafter	m	118	
24	Remove Hydroboil and install to new position	No	1	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc as per Building Regulation and making good of surfaces where removed.</u>				
25	Clay/Concrete roof tiles and set aside for re-use	m2	179	
26	Carefully remove gypsum plaster board ceiling	m2	168	
27	Skim cracked ceiling and repaint (elsewhere measured)	m2	248	
<u>Cleaning of Walls</u>				
28	Removing stains of face brick and painted walls with approved cleaning agent.	m2	824	
Carried to Collection				R
Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

29	<u>Miscellaneous Items</u> Provide the sum of R800 000.00 (Eight Hundred Thousand Rands Only) for miscellaneous items to be used at the discretion of the Employer and be deducted in whole or in part if not required.		SUM		
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 1 - Alterations PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 2				
Bill No. 1				
Bill No 1 - Alterations				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	58			
Total Brought Forward from Page No.	59			
Total Brought Forward from Page No.	60			
Total Brought Forward from Page No.	61			
Total Brought Forward from Page No.	62			
Total Brought Forward from Page No.	63			
Total Brought Forward from Page No.	64			
Total Brought Forward from Page No.				

Carried Forward to Summary of Section No. 2

R

Section No. 2
Section 2 - Builders' Work
Bill No 1 - Alterations
PROVISIONAL BILL OF QUANTITIES
BID NUMBER: NWDOH/PS/019/11

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 2</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>(WORK GROUP 104)</u> PREAMBLES For preambles refer to "Department of Public Works: Specification of Materials and Method to be used - PW371"			
	<u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SOIL POISONING</u> <u>Approved insecticide solutions shall be mixed on site in the presence of clerk of works/engineer/principal agent in strict accordance with the manufacturers/suppliers specifications</u> <u>Soil insecticide under a 5 year guarantee by an approved firm of registered specialists</u>			
1	Inject soil insecticide to all buildings	No	114	
	<u>Weedkiller, "Hyvar X' or other approved by a firm of specialist</u>			
2	Over paving etc	m2	3 000	
	Carried Forward to Summary of Section No. 2 Section No. 2 Section 2 - Builders' Work Bill No.2 -Earthworks PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>(WORK GROUP 110)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax				
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No.3 - Concrete PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R		

	<u>SUPPLEMENTARY PREAMBLES</u> <u>Concrete test cubes</u> Descriptions and tendered rates for concrete strength test cubes, as required under clause 7, "Tests" of SABS 1200 G, shall be deemed to cater for all the cost of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved laboratory for testing, paying all charges in connection therewith and for submitting test results to Principal Agent All concrete strength test cubes, each 150 x 150 x 150mm shall be prepared in a set of three It will be required from the contractor to prepare concrete strength test cube sets for each section (radiology, dental etc) at the following minimum frequencies: - One set of three cubes for every 20m³, or part thereof, of concrete cast per day, - or - One set of three cubes for each batch of concrete cast per event as directed by the Clerk Of Works. All concrete strength test cubes shall be done on site regardless of ready mix and shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the area and section identity) shall be properly recorded for future reference. Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No.3 - Concrete PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<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 reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Principal Agent for design reasons. Formwork necessitated by irregularities 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 which is made for in "Earthworks"				
1	<u>Test Blocks (Provisional)</u> Making of 150 x 150 x 150mm concrete strength test cube in sets of three, label and send to an approved laboratory for testing, including paying all charges and submit report to the Principal agent. (only successful tests will be paid for) Sets	1			
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No.3 - Concrete PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R		

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>MASS CONCRETE</u>					
<u>Unreinforced concrete cast against excavated surfaces</u>					
<u>15MPa/19mm concrete</u>					
2	Surface blinding under strip footing and column bases	m3	1		
<u>Unreinforced concrete vertically to foundation walls</u>					
<u>25MPa/19mm concrete</u>					
3	Cast against excavated surfaces	m3	1		
4	180 x 70mm channel	m3	6		
5	460 x 70mm flat top concrete coping with dpc under	m3	10		
<u>30MPa/19mm concrete</u>					
6	100 x 80mm Cast In-Situ concrete edge beam	m3	1		
<u>PRE-CAST CONCRETE</u>					
<u>Concrete kerbing</u>					
7	Kerb (SABS 927 fig 3) 150 x 300mm high with 260 x 260 x 50mm unreinforced concrete hauching at the back of each joint including excavation, backfilling, etc.	m	120.00		
<u>200 x 100 x 80mm interlocking concrete pavers with kerbstones on DPM on bedding sand on compacted and levelled ground with weed killer (elsewhere).</u>					
8	60mm Interlocking concrete paving blocks on 25mm sand (elsewhere measured)	m2	332		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No.3 - Concrete PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>SUNDRIES</u>					
<u>Finishing surfaces of concrete smooth with a woodfloat</u>					
9	Surface beds, slabs, etc	m2	12		
10	Aprons, slabs, etc	m2	4		
<u>MOVEMENT JOINTS ETC</u>					
<u>Isolation joints</u>					
11	10mm isolation joints with polystyrene inbetween and poly sealant to structural structural engineers specification	m	1		
<u>Movement joints</u>					
12	Movement joint formed of 15mm bitumen impregnated softboard not exceeding 300mm high built in vertically between brickwork and concrete and sealed with polysulphide sealing compound externally	m	5		
<u>Expansion joints</u>					
13	Movement joint not exceeding 300mm high formed of 20mm polystyrene placed vertically in position between concrete surfaces including approved sealant	m	2		
<u>Saw cut joints including polysulphide sealing compound</u>					
14	6 x 10mm Saw cut joints in top of concrete	m	1		
15	6 x 40mm SAW-CUT clean out and seal with approved sealant	m	18		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No.3 - Concrete PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 4</u> <u>MASONRY</u> <u>(WORK GROUP 118)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> <u>Wall ties</u> Descriptions and rates for cavity walls specified to include wire ties shall, unless otherwise specified, be deemed to include at least five metal wire ties, evenly spaced, per square metre brickwork. Metal wall ties shall: - Comply with SABS 28 and of the butterfly or the modified PWD type - Of suitable lengths to ensure that ends are built at least 75mm deep into brickwork.			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 4 - Masonry PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. Contractor to verify size uniformity prior to laying <u>Pointing</u> Description of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	<u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar</u>				
	1 One brick walls m2	20			
	<u>SUNDRIES</u> <u>Brick reinforcement in superstructure</u>				
	2 Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net) m	35			
	<u>FACE BRICKWORK</u> <u>Equal and approved by the Principal Agent facebricks to match existing (PC R6500/1000 bricks including delivery to site but excluding VAT) pointed with recessed horizontal and vertical joints</u>				
	3 Extra over half brick walls m2	13			
	4 Extra over one brick wall m2	35			
	5 One brickwall pointed on both sides. m2	20			
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 4 - Masonry PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			R	

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 5</u> <u>WATERPROOFING</u> <u>(WORK GROUP 120)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>SUPPLEMENTARY PREAMBLES</u> Waterproofing to flat concrete roofs shall be installed by an approved firm of "Specialist Contractor" under a "<u>ten year guarantee</u>" all in accordance with the materials supplied and methods employed by Manufacturers				
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of type 375 micron Consol Plastics Brikgrip DPC or similar and approved by the Principal Agent embossed damp proof course</u>				
1	In walls <u>One layer of 250 micron USB green medium density waterproof sheeting sealed at laps with pressure sensitive tape all in accordance with the Manufacturer's instruction</u>	m2	65		
2	Medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing in building	m2	30		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 5 - Waterproofing PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>JOINT SEALANTS ETC</u>					
<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>					
3	Between timber fittings and plastered walls	m	155		
4	Between sanitary fittings and wall tiles	m	186		
5	Around door/window frame	m	163		
<u>Natural grey polysulphide sealing compound</u>					
6	20mm Deep in Expansion joints	m	187		
<u>WATERPROOFING TO ROOFS</u>					
<u>4mm "torch-on" waterproofing membrane, with 75mm side and 100mm end laps,sealed to bitumen primed surface to falls and crossfalls by 'torchfusion' finished and fully bonded including finishing with two coats bituminous aluminium protective paint</u>					
7	On screeded flat floors to slight fall to outlet not exceeding 10 degrees from the horizontal	m2	164		
8	On tops and sides of inverted beams	m2	5		
9	Test for leaks in waterproofing by tanking in water to level of approx. 300mm for a period of 3 consecutive days	m2	629		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 5 - Waterproofing PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

Item No	Quantity	Rate	Amount
<u>SECTION NO 2</u> <u>BILL NO. 6</u> <u>ROOF COVERING</u> <u>(WORK GROUP 124)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> General All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched Sizes All items are measured net unless otherwise described Flashing, trimming plates, etc Prices to include for all cutting and waste and relevant fixing material, unless otherwise described All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet roof covering where applicable			
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 6 - Roof Covering PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

<u>ROOF COVERINGS AND ACCESSORIES</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>"Klip-lok Products" or similar and approved by the Principal Agent</u>					
Klip-Lok products to be all galvanised and installed strictly to manufacturer's specifications but colours to be to the Architect's approval					
<u>Global roofing solutions 0.58mm thick 700mm cover Klip-lok profile Chromadek Z200 spelter ISQ550 Darl dolphin finish top coat and Pebble Grey backing coat roof sheeting, fixed to steel intermediate purlins at MAX 2500mm centres and eaves and ridge purlins at MAX 2100mm centres using KL700 plus clips fixed with 10No.16 x 16mm long self drilling water head PH2 screws, No. 3 drill point fasteners and including all accessories; lipped 100 x 52 x2mm thick purlins to engineers detail, IPE 220 x 110mm IPE beam to match existing and IPE 160 x 82mm IPE beam to engineers detail all in accordance with the manufactures specifications.</u>					
1	Roof covering	m2	145		
<u>TILES</u>					
<u>Clay roof tiles laid on an 400-micron marley (or equal approved) undertile membrane with joints lapped 150mm fixed over batterns and trusses.</u>					
2	Clay/Concrete Double Roman Roof Tiles	m2	104		
3	Install previously removed and set aside clay/concrete roof tiles	m2	50		
<u>INSPECT ROOF FOR LEAKS</u>					
4	Check roof for leaks	m2	2 636		
				R	
Carried to Collection					
Section No. 2 Section 2 - Builders' Work Bill No 6 - Roof Covering PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u> <u>(WORK GROUP 126)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere Sealing of all abutments All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints Unless described, tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 7 - Carpentry and Joinery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Meranti framed, ledged, braced and battened door, formed of 110 x 44mm sides, 110 x 44mm top rail, 110 x 22mm middle rail, top and bottom brace and 220 x 44mm bottom rail, all filled in with 63mm tongue and groove slats and 3mm hardwood backing board</u>				
6	44mm Single door 900 x 2100mm high with 275mm high fanlight, hardwood flushback door with rebated meeting stiles.(D5)	No	1		
7	44mm Rebated double door size 1200 x 2100mm high overall, in two unequal leaves, one each leaf size 857 x 2100mm high and the other 343 x 2100mm high.(D10)	No	1		
8	44mm Door size 900 x 2032mm high	No	3		
	<u>SOLID DOORS, ETC</u>				
	<u>Solid particleboard core: stile and rail frame bonded to particleboard core with wood lock blocks 7 ply construction . Supplied with hardwood edges strips post lipped. SABS certified to standard SANS 545 & ISO 9001:2008</u>				
9	40mm thick 813 x 2032mm high Solid particleboard core single door leaf.	No	3		
	<u>SEMI-SOLID DOORS, ETC</u>				
	<u>Pelican Systems JUMBO or equal approved heavy duty flush panel single leaf solid core timber door with Oak veneer finish to both sides with veneer over edge.</u>				
10	40mm Double door size 826 x 2032mm high overall. d3	No	4		
11	40mm Single door size 880 x 2032mm high overall. d5	No	4		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 7 - Carpentry and Joinery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 8</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u> <u>(WORK GROUP 129)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax				
	Carried to Collection		R		
	Section No. 2 Section 2 - Builders' Work Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

<u>SUPPLEMENTARY PREAMBLES</u> Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere Ceilings Unless otherwise described, ceilings shall be deemed to be horizontal Suspended ceilings, bulkheads, etc All suspended ceilings, bulkheads, etc. shall be installed by an approved firm of specialists, all in accordance with the materials supplied and methods employed by Manufacturer Proprietary suspended ceilings Hangers, suspension grids, "lay-in" panels, etc. of suspended ceilings, bulkheads, etc are to be in accordance with the Manufacturers recommendation Bulkheads Bulkhead are defined as those portions of ceilings which are stepped vertically down or up from the general ceiling level and which generally occur along the perimeter of a room or area Bulkheads have only been described as such where they conform to the above defination and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions do exceed 900mm, such portions of ceilings have been included in the appropriate general items of ceilings Unless otherwise described, bulkheads shall be deemed to be horizontal along the length				
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R		

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

<u>CEILINGS, ETC</u>					
<u>NAILED UP CEILINGS</u>					
<u>Note:</u>					
The tenderer shall make allowance in the ceilings for electrical light fittings, diffusers, panels, etc and for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)					
Tenderers are advised to make allowance in their prices for ceiling subframes where required					
<u>Skimmed Gypsum Plasterboard</u>					
2	9.4mm skimmed Gypsum Rhinoboard ceiling boards with joints tapered and skimmed smooth with minimum 3mm Gypsum Rhinolite skimming plaster, painted with paster primer and two coats "Plascon Polvin" (or equal and approved) super acrylic pva paint (em) to manufactures detail and specifications. Paint colour white	m2	36		
<u>Gypsum plasterboard</u>					
3	9.4mm thick Gypsum Rhinoboard ceiling boards fixed to SA pine brandering spaced @ 300mm centres with ceiling screws. Provide H profile jointing strips and finish off with plaster primer, undercoat and two coats "Plascon Polvin" (or equal and approved) super acrylic Pva paint , all as per manufactures detail specifications.	m2	637		
<u>FIBRE CEMENT CEILINGS</u>					
<u>6mm thick Fibre-cement ceiling boards with fixing accessories</u>					
4	Ceilings including 38 x 38mm SA pine brandering spaced at 300mm centres with ceiling screws. Provide H profile jointing strips and coved cornice.	m2	44		
5	Extra over ceiling for opening for 650 x 650 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	16		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

<u>PLASTERED PLASTERBOARD CEILINGS</u>					
<u>SUSPENDED CEILINGS</u>					
<u>Ceilings "BPB Gypsum DonnCeil Gyprex" white vinyl finished gypsum ceiling tiles 12,5mm thick, laminated to glass wool board of 55mm or similar approved by the Principal Agent acoustic ceiling tiles 12,5mm thick, laid on and including Q/T38 White powder coated main tees, cross tees, hold-down clips, wedges, etc., all suspended with galvanized hangers at centers not exceeding 1200mm</u>					
6	600 x 600mm Suspended Ceilings not exceeding 1m below truss members	m2	110		
7	1200 x 600mm Suspended Ceilings not exceeding 1m below steel members	m2	230		
<u>CORNICE</u>					
<u>Meranti cornice</u>					
8	19 x 50mm meranti skirting fixed upside down against wall and finished with 19mm quadrant	m	231		
<u>SUNDRIES</u>					
<u>"Fireproof" pyrosafe seal consisting of high density mineral wool panels cut and fixed into the opening around the penetrating services, all joints to be sealed with "Pyrosafe WB" including over-coating of the exposed faces of the panels and for 250mm on the penetrating services ("Pyrosafe Panel Seal" tested according to SABS 0177 Part II and achieving a rating of 120 minutes"), all installed strictly to the manufactureres specifications</u>					
9	Around service pipes/cables etc	m2	98		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 9</u> <u>FLOOR COVERINGS, WALL LINNING, ETC.</u> <u>(WORK GROUP 130)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u><u>Note</u>Newly installed floors should not be wet within 3 days of installation. contractor will remove and replace at own cost of it occurs that floor are wet before lead time. <u>preparation</u>Clean the floor with a neutral cleaner using hand or 3m Red pad rotary machine , pick up dirty water with a wiper and mop or wet vacuum, rinse with clean water and allow floor to dry. do not use high PH chemicals to remove stains. Use "Forbo cleaner" or " Marmoleum Floor Cleaner" to maintain uniform texture after cleaning <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax				
	Carried to Collection		R		
	Section No. 2 Section 2 - Builders' Work Bill No 9 - Floor Coverings, Wall Linning, etc. PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

<u>SUPPLEMENTARY PREAMBLES</u>	Floor coverings and wall linings	All floor coverings and linings are to be supplied, laid and sealed complete on a cement screed (screed somewhere) under guarantee by an approved firm of Specialist	Sealing of joints	All joints between floor coverings and wall linings to be butted and heat welded ensuring the welding agent bonds to more than 70% of the respective sheet thickness	All abutments between floor coverings, wall linings, etc. and other members, ie. fittings, skirtings, corner protectors, etc are to properly sealed with an approved sealant of an approved colour	Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained	Note: Newly installed floors should not be wet within three days of installation. Contractor will remove and replace at own cost if discovered that the floors have been wet before the lead time.	Finished Surfaces	Contractor to ensure that surfaces are even and suitable to receive a specified finish as no extra cost shall be entertained	Carried to Collection	Section No. 2 Section 2 - Builders' Work Bill No 9 - Floor Coverings, Wall Linning, etc. PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11	R
--	--	---	---------------------------------	---	---	---	---	---------------------------------	--	-------------------------------------	--	----------

<u>FLOOR AND WALL LINING</u> <u>EPOXY FLOORING(COLOUR TO ARCHITECTS APPROVAL)</u> <u>6mm thick self levelled epoxy screed with aggregate scatter for slip resistant surface as supplied and installed by "Flowcrete" (or equal approved) with 150mm coved skirting on 30mm thick steel floated screed. All work to be done strictly as per manufacturers details and specifications.</u>				
1	On floors	m2	35	
2	150mm high coved steel trowelled skirting	m	24	
<u>VINYL SHEETING SPLASHBACK (TYPE: TO ARCHITECTS APPROVAL)</u> <u>SHEET TYPE E : 2mm thick "POLYFLOR 2000 PUR" (or equal and approved) fully flexible homogeneous, non-directional high performance heavy duty vinyl sheeting with PuR reinforcement and surface treatment laid on vertical wall substrate at 800-1600mm above finished floor level to manufactures detail specification. Provide PVC capping strip to all outer corners of vinyl sheeting.</u>				
3	On walls	m2	75	
<u>VINYL SHEETING (TYPE: TO ARCHITECTS APPROVAL)</u>				
Carried to Collection				R
Section No. 2 Section 2 - Builders' Work Bill No 9 - Floor Coverings, Wall Lining, etc. PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>SHEET TYPE A : 2mm thick "POLYFLOR 2000 PUR" (or equal and approved) fully flexible homogeneous, non-directional high performance heavy duty vinyl sheeting with PuR reinforcement and surface treatment laid on 30mm thick smooth steel floated cement screed strictly as per manufactures detail specification. Provide fully flexible PVC expansion joint cover (Gauge: 65mm 2mm) over filled construction/expansion joints with weld capability to vinyl sheeting on either side of the expansion.</u>				
4	On floors including self levelling screed	m2	976		
5	150mm High coved prefinished skirting	m	28		
6	20 x 20mm cove former finished with a PVC capping strip, installed strictly as per manufacturers detail specification	m	5		
	<u>SHEET TYPE B : 2mm thick "POLYFLOR 2000 PUR" Static Control (or equal and approved) fully flexible homogeneous, non-directional high performance heavy duty vinyl sheeting with PuR reinforcement and surface treatment laid on 30mm thick smooth steel floated cement screed strictly as per manufactures detail specification. Provide fully flexible PVC expansion joint cover (Gauge: 65mm 2mm) over filled construction/expansion joints with weld capability to vinyl sheeting on either side of the expansion.</u>				
7	On floors including self levelling screed	m2	78		
Carried to Collection					
Section No. 2 Section 2 - Builders' Work Bill No 9 - Floor Coverings, Wall Lining, etc. PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					R

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 10</u> <u>IRONMONGERY</u> <u>(WORK GROUP 132)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Fixing of door locks, handles, flush bolts etc Fixing of all locks, handles, flush bolt, etc. shall be regarded as fixed to timber door leaves, unless specifically otherwise indicated Preparation of door frames Descriptions for flush bolts, door closers, floor spring, etc. shall be deemed to include all necessary preparations to door frames to accomodate same. Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained All "en-suite" locks shall be ordered to operate in a dedicated master keyed and/or grand master keyed lock system			
	<u>SUPPLY AND INSTALLATION OF IRONMONGERY</u> Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 10 - Ironmongery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>HINGES, BOLTS, ETC</u>				
1	Standard pad latch	No	1		
2	Standard heavy duty brass hinge	No	36		
3	Dust proof strike	No	33		
4	100x75x3mm stainless steel two ball bearing butt hinges	No	15		
5	Hat and coat hook with R/buff ST/S	No	4		
6	54mm Patent F/screw NP 40-55mm for P/Plates	No	12		
7	Flushbolt 150mm ST/C	No	6		
8	Flushbolt 225mm ST/C	No	3		
9	Flushbolt 300mm ST/C	No	4		
10	Reset flushbolt/dust proof strike	No	5		
11	Rebate conv set for 76mm lock	No	4		
12	Geze prof cylinder escutcheon s/ss	No	4		
	<u>LOCKS</u>				
	<u>"GEZE"</u>				
13	Deadlock euro cyl with roller bolt N/S S/S 35mm	No	10		
14	Union 315 doorlock (L-22315-76SS)	No	6		
15	Mortice indicator bathroom/wc set complete s/s	No	8		
16	76mm prof CYL sashlock 22mm CP	No	5		
17	76mm prof CYL Deadlock 22mm GMK (2x18SCGMK)	No	25		
18	Thumb turn and lock TT001SS	No	5		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 10 - Ironmongery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>PUSH PLATES, KICKING PLATES , NAMEPLATES, ETC</u>				
<u>"GEZE" or equal approved</u>				
<u>Pushplate drilled and counter sunk to timber</u>				
28	300 x 150 x 16mm blank S/S 6 fix holes	No	4	
29	300 x 400 x 2mm kick plate	No	20	
30	300 x 800 x 2mm kick plate	No	68	
<u>Doorstop</u>				
31	Door stop satin SS (87001SS)	No	135	
<u>DOOR CLOSERS AND FLOOR SPRINGS</u>				
<u>"Geze"or equal approved</u>				
32	Reset existing door closers to a smooth operational working condition	No	62	
33	Door closer Union DC 737 EN3-5 SC HO	No	11	
<u>"Franke" or similar and approved by the Principal Agent</u>				
34	Double toilet roll holder code 2120101, size 144 x 138 x 301mm with spindle system for wall mounting. Including cylinder lock with key.	No	39	
35	Soap dispenser code 2190025 size 200 x 85 x 140mm for wall mounting, lock with key, suitable for liquid soapsand lotion, 1 litre soap tank, push button on the front.	No	80	
36	Paper towel dispenser code 21200 size 275 x 112 x 355mm, for wall mounting with standard key, loading capacity 500 - 800 pieces.	No	95	
37	Double arm soap rack 163x100mm dia Code 35994	No	6	
38	Perforated wall container with capacity of 23 litres, size 410x205x380mm. Code: 359873	No	86	
Carried to Collection			R	
Section No. 2 Section 2 - Builders' Work Bill No 10 - Ironmongery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>GRAB RAILS AND RELATED WORKS</u>					
<u>"Chairman industries" or other equal and approved</u>					
42	Stainless steel side grab rail size 650x95mm " Code 359873	No	7		
43	Stainless steel rear grab rail " Code SR2 " including fixing to wall around cistern	No	3		
44	382 X 350mm stainless steel fold down shower seat	No	7		
<u>HAT AND COAT HOOKS, ETC.</u>					
<u>"Franke" stainless steel robe hook or similar and approved by the Principal Agent</u>					
45	Robe hook with rubber stop code 2120090 size 68 x 40mm fixed or plugged	No	28		
<u>WINDOW STAYS AND CATCHES</u>					
46	Service stays to open and close smoothly	No	87		
47	Supply and fit cover caps to window handees	No	20		
<u>BLINDS AND CURTAINS</u>					
48	Provide a sum of R 20 000.00 (Two and Fifty Thousand Rands) for supply and installation of curtain tracks, rails, curtains and blinds		Item		200 000.00
49	Profit		Item		
50	Attendance		Item		
<u>SIGNAGE</u>					
51	Provide a sum of R 220 000.00 (Two Hundred and Twenty Thousand Rands Only) for all signage including permanent hospital directional signage		Item		220 000.00
52	Profit		Item		
53	Attendance		Item		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 10 - Ironmongery PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 11</u> <u>STRUCTURAL STEEL</u> <u>(WORK GROUP 134)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u>				
	<u>STRUCTURAL STEEL (Provisional)</u> <u>Standardised Specifications</u> The SANS 1200 1200H Standardised Specification for Civil Engineering Construction for Structural Steelwork is applicable to this Bill The SANS 1200 1200HC Standardised Specification for Civil Engineering Construction for Corrosion Protection of Structural Steelwork is applicable to this Bill <u>Project Specification</u> If the Standardised Specifications and the Project Specification (bounded in this document) are in conflict, the Project Specification shall apply. If these three specifications conflicts with the Model Preambles for Trades, the provisions of these specifications shall apply.				
	Carried to Collection				
	Section No. 2 Section 2 - Builders' Work Bill No 11 - Structural steel PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				
			R		

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Descriptions</u> Descriptions of all structural steelwork shall be deemed to include for the preparation of shop detail drawings, supply and fabrication, delivery, abnormal loads, erection and approved protective treatment (Corrosion protection). Items described as "bolted" shall be deemed to exclude the bolts and include the holes. 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 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.			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 11 - Structural steel PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 12</u> <u>METALWORK</u> <u>(WORK GROUP 136)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> Descriptions of expansion 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 Burglar bars to windows All opening sections shall be filled with burglar bars, unless otherwise described Glazing beads to windows Guarantees for glass shall be provided upon completion of the works. Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

<u>GALVANISED MILD STEEL DOOR FRAMES, WINDOWS INCLUDING BUILDING INTO BRICKWORK</u>					
<u>1,6mm pressed steel metal single rebated door frame complying with SABS 1129, to fit 230/115mm walls. Fitted with stainless steel strike plate and 3NO. set of hinges.</u>					
1	Frame for door size 815 x 2100mm high	No	5		
2	Frame for door size 880 x 2100mm high	No	1		
3	Frame for door size 1254 x 2134mm high	No	1		
<u>ALUMINIUM WINDOWS, ETC., INCLUDING BUILDING INTO BRICKWORK</u>					
<u>NOTE:</u> Indicative window schedules are attached at the end of the bills of quantities to assist the tenderer in pricing					
Rates for the following aluminium windows are to include for supplying and building in of temporary templates					
<u>Aluminium Screens</u>					
4	1517 x 1955 Aluminium grille	No	1		
5	1150 x 1150mm with S.S vermin proof mesh on the inside	No	1		
6	2300 x 1955mm with S.S vermin proof mesh on the inside	No	1		
<u>Design, supply, deliver to site and install the following windows/shopfront in accordance with the manufacturers instructions</u>					
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

<u>NU KLIP powder coated aluminium framed windows/shopfront glazed as described, including all necessary framing, transomes, mullions, beads, clips, etc., all ironmongery comprising hinges, friction stays, wedgeless handles, external sealing between gaskets, external sealant between framing and adjoining structure with an approved sealant recommended for the purpose intended, all fixings and supports protection from all damage, cleaning down upon completion and everything necessary for a perfectly weather tight installation to the intent, approval and satisfaction of the Architect. NOTE : All windows to be fitted complete with 12 x 12mm Aluminium square bars @ 150mm centres maximum and rates will be deemed to include such</u> <u>Windows/shopfront glazed with 6.38mm thick laminated tinted glass and plugged to brickwork. Purpose made accessories and bueglar bars factory fitted.</u>			
7 Purpose made 126x300 fanlight with 3mm laminated clear float glass <u>Windows/shopfront glazed with 6.38mm thick laminated clear glass and plugged to brickwork. Purpose made accessories and bueglar bars factory fitted.</u>	No	1	
8 Provide the sum of R50 000.00 (Fifty Thousand Rands Only) for repairs and maintenance of aluminium windows and accessories			SUM
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			R

<u>ALUMINIUM DOORS, ETC., INCLUDING BUILDING INTO BRICKWORK</u>					
<u>Anodised NU KLIP aluminium door/shopfront glazed as described in the schedule , material shall be of 6063T6 aluminium alloy with a minimum structural wall thickness of 1.80mm. System shall meet or exceed the requirements of AAAMSA and the design loading determination by SABS 0160 for this application.</u>					
<u>"NU KLIP" or similar and approved by the Principal Agent Shopfront</u>					
9	Anodised aluminium door frame, size 1800 x 2050mm, with 8.38mm thick laminated clear glass	No	7		
10	Anodised aluminium door frame, size 1800 x 2400mm, with 1/2 consisting of 4 opening window sections and with 8.38mm thick laminated clear glass	No	1		
11	Anodised aluminium 2 panel door frame, size 1500 x 2400mm, with 8.38mm thick laminated clear glass complete	No	3		
12	Anodised aluminium door frame, size 880 x 2100mm high with timber semi-solid core door leaf(e/m)	No	2		
<u>BUMPER RAILS</u>					
<u>UPVC intrad wall protection system consisting of high impact resistant uPVC brackets, uPVC joining blocks all work as per manufactures details and specifications.</u>					
13	On walls	m	120		
<u>Corner protectors</u>					
14	90 x 90 x 1,2mm Thick stainless steel corner protector fixed to walls	No	42		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>STEEL DOORS</u>				
15	2032 x 813mm Steel door supplied with 600 x 600mm louvred unit steel vent steel panel type "Durowin" AV with anti-rodent screen.	No	1		
16	1252 x 2134mm Steel fully louvred double door single swing	No	1		
	<u>FIRE DOORS, ETC</u>				
17	810 x 2030mm high Pelican Systems Pyrppanel 48mm single leaf fire door Class B installed in strict accordance with the manufacturers instructions and in compliance with SANS 1253:2003 with a 120 minute fire rating, with 3.6mm treated commercial ply suitable for painting on both sides, with 100 x 300mm high vision panel with Pyroceramic fire resistant glass to each leaf including intumescent strip to top of door, hardwood edges and 1.6mm thick red oxide primed mild steel frame suitable for 115mm brick wall. (ironmongery elsewhere specified)	No	3		
	<u>ROLLER SHUTTER DOORS AUTOMATIC OPERATED</u>				
	<u>"Xpanda" or any other of similar quality, automatic operated with motor which is fitted inside the top hood, Hard-crank or battery back-up with an option of hand crank and battery backup</u>				
18	Standard chain operated roller shutter in galvanised finish, size 2000mm x 2200mm high with 450mm headroom with 130mm clearance on free side and 160mm clearance on operator side , 75mm wide x 1.2mm thick slates, 75mm wide side guides, Xpanda Rol-ok, with pressed steel canopy cover and sloping T-bar to bottom edge, with perimeter framing plugged and screwed to face at the maximum 300mm centres to concrete or brickwork.	No	4		
	<u>BURGLAR PROOFING</u>				
19	Install burglar proofing to window size 1200x600mm to architects specification	No	2		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

20	Install burglar proofing to window size 1800x600mm to architects specification	No	6		
21	Install burglar proofing to window size 1800x1500mm to architects specification	No	6		
22	Install burglar proofing to window size 1200x1500mm to architects specification	No	5		
23	Install burglar proofing to window size 1200x1200mm to architects specification	No	9		
24	Install burglar proofing to window size 900 X 2100mm to architects specification	No	6		
25	Install burglar proofing to window size 600 X 600mm to architects specification	No	7		
26	Install burglar proofing to window size 900 X 900mm to architects specification	No	2		
27	Install burglar proofing to window size 1500 X 600mm to architects specification	No	2		
<u>CHANNEL STEEL GRIDS</u>					
<u>Purpose made steel grids with bearer bars size 40 x 4.5mm and spacing of 40 x 60mm</u>					
28	Grid Type A - Size 1361 x 510mm	No	4		
29	Grid Type B - 1070 x 510mm	No	2		
30	Grid Type B - 1070 x 510mm	No	8		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 12 - Metalwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 2				
Bill No. 12				
Bill No 12 - Metalwork				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	113			
Total Brought Forward from Page No.	114			
Total Brought Forward from Page No.	115			
Total Brought Forward from Page No.	116			
Total Brought Forward from Page No.	117			
Total Brought Forward from Page No.	118			
Total Brought Forward from Page No.	119			
Carried Forward to Summary of Section No. 2			R	
Section No. 2				
Section 2 - Builders' Work				
Bill No 12 - Metalwork				
PROVISIONAL BILL OF QUANTITIES				
BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 13</u> <u>PLASTERING</u> <u>(WORK GROUP 142)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Textured finishes All textured finishes are to be applied to the satisfaction of the Principal Agent and executed by an approved firm of Specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer Preparatory work for textured finishes Textured finishes to be applied to surfaces as described. Rates tendered are to include for all necessary priming, preparatory work, etc. All surfaces are to be inspected and approved by the Principal Agent prior to any work is commenced with				
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 13 - Plastering PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R		

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>SCREEDS</u>				
<u>3:1 Cement plaster screeds steel trowelled on concrete</u>				
1	25mm Thick on concrete floors to receive tiles	m2	20	
2	25mm Thick on concrete floors to receive vinyl sheeting	m2	20	
<u>INTERNAL PLASTER</u>				
<u>One coat (1:5) cement plaster on brickwork</u>				
3	On walls	m2	1 040	
<u>On concrete</u>				
4	On ceilings	m2	122	
<u>EXTERNAL PLASTER</u>				
<u>One coat (1:5) cement plaster on brickwork</u>				
5	On walls	m2	99	
<u>On concrete</u>				
6	On ceilings	m2	344	
<u>DIVIDING STRIPS, COVER STRIPS ETC</u>				
<u>Strips</u>				
7	3 x 25mm Brass dividing strip with top flush with floor finish	m	8	
Carried to Collection			R	
Section No. 2 Section 2 - Builders' Work Bill No 13 - Plastering PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 14</u> <u>TILING</u> <u>(WORK GROUP 144)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Prices Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete			
	<u>CERAMIC WALL TILES</u> <u>200 x 200 x 5mm white glazed ceramic splashback tiles (PC R300/m2 including delivery to site but excluding VAT) on vertical wall substrate with 20mm plaster backing. Tiles to run in both directions jointed and flush pointed with 5mm tile grouting joints as per architects approval. Tiles to be laid to the underside of the ceiling.</u>			
1	On walls m2 158 <u>Tile Type UN512 (to Architects approval)</u> <u>CERAMIC FLOOR TILES</u>			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 14 - Tiling PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

2	<u>330 X 330 mm ceramic tiles (PC R400/m2 including delivery to site but excluding VAT) with 3mm wide grout joints (colour and tile type as per architects approval) with rapid setting adhesive strictly as per adhesive manufactures detail specification. Provide 2mm wide joints and applied strictly as per manufactures detail specification. All outer corners to be finished with aluminium straight edge trim for 8-9mm thick lines.</u> On floors	m2	283	
	<u>PORCELAIN FLOOR TILES</u> <u>Tile type A: 600 x 600 x 8mm slip resistant full body porcelain tiles (PC R550/m2 including delivery to site but excluding VAT) on wood floated screed on concrete surface bed with heavy duty aluminium expansion joints and 2mm wide grout joints (colour and tile as per architects approval) on concrete surface bed in pattern with expansion joints as per structural engineer, with rapid setting adhesive applied strictly as per manufactures detail specification. Provide 2mm wide joints and applied strictly as per manufactures detail specification.</u>			
3	On floors	m2	337	
4	150mm high x 600 x 8mm full body porcelain tiles on vertical wall substrate with 2mm wide grout joints (colour and tile as per architects approval) with rapid setting adhesive applied strictly as per adhesive manufactures detail specification. Provide 2mm wide joints and applied strictly as per manufactures detail specification.	m	56	
5	Cut tile edge to be finished with aluminium straight edge trim for 8-9mm tiles.	m	357	
	<u>POLISHING</u> <u>Clean and polish floors with approved chemical</u>			
6	On floors and walls	m2	92	
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 14 - Tiling PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				R

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u> <u>BILL NO. 15</u> <u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u> <u>(WORK GROUP 148)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Excavations Prices for excavations must include for necessary staging for risk of collapse of excavation side. Compacting Filling for all types of prices described as "under solid floors, etc" shall be done with approved backfilling and compacted to 93% Mod. AASHTO density, unless otherwise described Testing Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the Principal Agent's instructions, including for retesting after taking out and making good all defective work to his entire satisfaction			
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

	<u>Vitrified clay pipes:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings <u>uPVC pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipe fittings shall be solvent weld jointed <u>uPVC pressure pipes and fittings</u> Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings <u>Copper pipes</u> Pipes shall be hard drawn and half hard pipes of the class stated. Class 0 (thin walled hard drawn pipes) shall not be bent. Class 1 (thin half hard), Class 2 (half hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or ground.			
	Carried to Collection		R	
	Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

	<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 will be entertained. <u>Excavations</u> No claim for extra rock excavation will be entertained unless the Contractor has timeously notified the Quantity Surveyor , thereof prior to backfilling, in writing "Soft rock" and "Hard rock" shall be as defined in "Earthworks" <u>Laying, Backfilling, Bedding, etc. of Pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with the manufacturer's instructions Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium Pressure Pipes LD : Sewers LE : Stormwater Drainage Pipes trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe Trenches) Pipes shall be bedded in accordance with Clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>Waste unions</u>				
Description of waste unions shall be deemed to include rubber or vulcanite plugs and chains				
<u>DRAINAGE</u>				
<u>NOTE:</u> All items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes				
<u>SOIL DRAINAGE</u>				
Unless otherwise stated herein, all items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes.				
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				
			R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>RAINWATER DISPOSAL</u>				
<u>Fulbore cast iron outlets</u>				
1	150mm Diameter 90 degrees	No	2	
<u>Rainwater pipes</u>				
2	200 x 200 x 1.2mm GS watertight guttering commercial and industrial square including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with dow corning.	m	310	
3	100mm diameter x 1.0mm thick down pipe fixed to wall with straps	m	213	
4	75mm Diameter Pluvia pipes	m	50	
5	110mm Diameter Pluvia pipes	m	10	
6	150mm Diameter Pluvia pipes	m	54	
7	Extra over 150mm rainwater pipe for bend	No	42	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
8	50mm Pipes fixed to walls	m	2	
9	50mm Pipes laid under slabs and including trenches not exceeding 1m deep	m	2	
10	110mm Pipes fixed to walls or soffits	m	5	
11	110mm Pipes laid under surface beds and including trenches not exceeding 1m deep	m	1	
12	110mm Pipe encased in concrete 20MPa/20 under surface beds and including excavation exceeding 1m and not exceeding 2m deep	m	1	
<u>Extra over upvc pipes for fittings</u>				
13	50mm Bend	No	1	
Carried to Collection			R	
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

14	50mm Access bend	No	1		
15	50mm Access junction	No	1		
16	50mm Junction	No	1		
17	110 x 50mm Reducer	No	16		
18	110mm Plain bend	No	2		
19	110mm Access bend	No	2		
20	110mm Access junction	No	2		
21	110mm Pan connector	No	36		
22	110mm Bent pan connector	No	36		
23	110mm Two way vent valve	No	18		
<u>SANITARY FITTINGS</u>					
<u>"Vaal" Stainless steel or similar and approved by the Principal Agent</u>					
24	"Nueva Europa" Enamel steel bath size 500 x 1500mm with adjustable feet	No	2		
25	Baby stainless steel baby bath tub size 1500x555mm	No	1		
26	"Daisy" vitreous china 510 x 400mm semi-rectangular basin with 3 semi-punched tap holes, integrated overflow and chain stay hole	No	20		
27	Trendline stainless steel single bowl drop in sink size 900 x 535mm with bow dimension of 460 x 355 x 150mm	No	10		
28	Ceramic fireclay 595 x 455mm oval self-rimming basin with three semi-punched holes and chainstay hole - Code 7028	No	20		
29	"Hygia" ceramic fire clay 585 x 535 mm hospital basin supplied with two tap holes including 1/4 turn wrist action mixer complete	No	39		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

30	"Orchid" vitreous china top inlet wall hung open rim pan supplied with purpose made wooden seat and floor bracket	No	30		
31	"Orchid" paraplegic china top inlet wall hung open rim pan supplied with purpose made wooden seat and floor bracket	No	6		
32	"Letaba" Enamel steel shower tray 900x900mm with integrated anti-slip pattern	No	12		
33	"Callas" vitreous enamel top hung urinal with integral spreader and P-trap	No	7		
34	Stainless steel fold down shower seat 382 x 350mm	No	3		
35	Bedpan and bottle rack code 350650, size 610X560X260mm. Including unit complete with stainless steel drip tray.	No	6		
36	Combination bedpan and wash up sink supplied pre-plumbed complete with all fittings. Code 355100	No	6		
37	Slop hopper 540 x 540mm code 2630035-004 with a 100mm high integral splash back to the rear and both sides. Complete with a 107mm waste outlet(s).	No	6		
38	Stainless steel wall mounted wash trough size 450x355x150mm	No	2		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>WASTE UNION</u>					
<u>"Cobra Watertech" or other equal and approved by the Principal Agent</u>					
39	Shower waste code 323 rough brass with 75mm diameter chromium plated shower grating	No	11		
40	32mm 301CP waste union	No	8		
41	38mm 316CP Sink waste union	No	19		
42	Slotted basin waste with 62mm diameter flange, 80mm lang flank and plug	No	39		
<u>TRAPS, ETC</u>					
<u>"Cobra Watertech" or other equal and approved by the Principal Agent</u>					
43	38mm Chromium plated bottle trap	No	11		
44	32mm Chromium plated bottle trap	No	8		
45	75mm Chromium plated bottle trap with adjustable telescopic pipe	No	74		
46	75mm 373/40 Shower trap	No	9		
47	Stainless steel floor trap with flow rate of 3 litres per second, double water seal, smooth finishes and slurry box. Code: RO 125V (H) NV100	No	3		
48	Stainless steel floor trap with flow rate of 0.8 litres a second, double water seal, smooth finishes and slurry box. Code: RO 125V (H) NV 50	No	12		
<u>"Rubber"</u>					
49	40mm Deep seal "P" or "S" trap	No	9		
50	75mm Deep seal "P" or "S" trap	No	14		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>TAPS, VALVES, ETC</u>				
<u>"Brass"</u>				
51	Gala single basin mixer with chain (Code GA652)	No	15	
52	Angle regulating valve with 350mm flexi tube (Code 232/350)	No	19	
53	Single function vandal resistant shower head (Code KP 2.61)	No	10	
54	"GALA" single lever bath shower mixer Code GA-656	No	9	
55	"GALA" single lever basin mixer Code GA-652	No	15	
56	"Strata" bath shower mixer with thermostatic under tile sinle lever and temperature control	No	5	
57	'Ledimo" sink mixer, wall mounted with aerated swivel outlet	No	13	
58	Econo flush front access box with flush pipes, pam press button with stainless steel face plate	No	35	
59	Toilet flush valve. Code FM1.000	No	10	
60	Push button demand pillar tap with hot and cold indices (Code KM2. 100)	No	11	
61	Bath spout, flangeless with direction adjustable aerator	No	4	
62	"Medical" action pillar tap with 1/2 turn ceramic disc (Code 505-21B)	No	10	
63	Urinal flush valve with Ball-O-Stop and wall flange	No	8	
64	Brass bibtap with 3/4 hose union	No	1	
65	"Star" hose bibtap for 3/4 hose pipe	No	1	
<u>Testing</u>				
66	Allow for testing the whole of the sanitary plumbing installation to the approval of the Representative/Agent		Item	
Carried to Collection			R	
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>WATER SUPPLY</u>				
<u>Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections</u>				
67	15mm Pipes	m	4	
68	22mm Pipes	m	5	
69	28mm Pipes	m	5	
70	35mm Pipes	m	1	
71	42mm Pipes	m	1	
72	54mm Pipes	m	1	
<u>Extra over class O copper fittings for soldered capillary fittings</u>				
73	15mm Fitting	No	2	
74	22mm Fitting	No	2	
<u>Extra over 28mm diameter copper piping for soldered capillary fittings</u>				
75	Bend or elbow	No	3	
76	Tee	No	2	
77	Reducing tee	No	3	
78	Bush	No	1	
79	Reducing bush	No	1	
Carried to Collection				R
Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>Extra over 35mm diameter copper piping for soldered capillary fittings</u>				
80	Bend or elbow	No	5		
81	Tee	No	5		
82	Reducing tee	No	5		
83	Bush	No	5		
84	Reducing bush	No	5		
	<u>Extra over 42mm diameter copper piping for soldered capillary fittings</u>				
85	Bend or elbow	No	5		
86	Tee	No	5		
87	Reducing tee	No	5		
88	Bush	No	5		
89	Reducing bush	No	5		
	<u>Extra over 54mm diameter copper piping for soldered capillary fittings</u>				
90	Bend or elbow	No	5		
91	Tee	No	5		
92	Reducing tee	No	5		
93	Bush	No	5		
94	Reducing bush	No	5		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

	<u>FIRE APPLIANCES ETC.</u>				
95	Fire hose reel complete with 30m x 20m diameter hose, including reel, valve, nozzle and wall bracket bolted on	No	1		
96	9Kg Dry chemical fire extinguisher	No	1		
	<u>WATER SUPPLY TO FIRE APPLIANCES</u>				
	<u>Galvanised steel pipes</u>				
97	25mm Pipes	m	20		
	<u>Extra over galvanised steel pipes for steel fittings</u>				
98	25mm Fittings	No	4		
	<u>VALVES TO FIRE APPLIANCES</u>				
	<u>"Cobra watertech" or other equal and approved by the Principal Agent</u>				
99	25mm 1001/125-25 PRESTEX brass fullway gate valve	No	1		
	<u>Testing</u>				
100	Allow for testing the whole of the water supplies and fire service installation to the approval of the Representative/ Agent		Item		
	<u>"Stunning" or similar and approved by the Principal Agent</u>				
101	450 x 300mm Approved shower seat with white stainless steel frame and timber slats seat, plugged and screwed to wall with stainless steel coach screws.	No	9		
	<u>WATER APPLIANCES</u>				
	<u>"Franke" or other equal and approved by the Principal Agent</u>				
102	Hydroboil 5 litre stainless steel code 2610010 instant boiling water 25 - 30 ups size 460 x 150mm.	No	7		
	Carried to Collection			R	
	Section No. 2 Section 2 - Builders' Work Bill No 15 - Plumbing and drainage PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 2				
Bill No. 15				
Bill No 15 - Plumbing and drainage				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	127			
Total Brought Forward from Page No.	128			
Total Brought Forward from Page No.	129			
Total Brought Forward from Page No.	130			
Total Brought Forward from Page No.	131			
Total Brought Forward from Page No.	132			
Total Brought Forward from Page No.	133			
Total Brought Forward from Page No.	134			
Total Brought Forward from Page No.	135			
Total Brought Forward from Page No.	136			
Total Brought Forward from Page No.	137			
Total Brought Forward from Page No.	138			
Total Brought Forward from Page No.	139			
Total Brought Forward from Page No.	140			

Carried Forward to Summary of Section No. 2

R

Section No. 2
Section 2 - Builders' Work
Bill No 15 - Plumbing and drainage
PROVISIONAL BILL OF QUANTITIES
BID NUMBER: NWDOH/PS/019/11

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

Item No	Quantity	Rate	Amount
<u>SECTION NO 2</u> <u>BILL NO. 16</u> <u>GLAZING</u> <u>(WORK GROUP 150)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Prices Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete			
Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 16 - Glazing PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>					
	<u>Mirror manufactured from 18/10 stainless steel with a reflective polished surface, drilled for screw to wall and reinforced with Novopan plates screwed to wall</u>				
1	Size 600 x 450 x 4mm High quality mirror with bevelled edges. Plug and screw to wall with chrome mirror screw, complete with screw caps.	No	44		
2	Size 900 x 450 x 6mm High quality mirror with bevelled edges. Plug and screw to wall with chrome mirror screw, complete with screw caps.	No	8		
	<u>8.38mm thick laminated clear glass approved by the architect</u>				
3	On the doors	m2	18		
	<u>6.38mm thick laminated clear glass approved by the architect</u>				
4	On the windows	m2	1		
Carried to Collection					
Section No. 2 Section 2 - Builders' Work Bill No 16 - Glazing PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO 2</u> <u>BILL NO. 17</u> <u>PAINTWORK</u> <u>(WORK GROUP 152)</u> <u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>SUPPLEMENTARY PREAMBLES</u> Paint All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed Previously painted plastered surfaces Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth Access Rates for painting steelwork, shall include access, for unlimited height				
	Carried to Collection Section No. 2 Section 2 - Builders' Work Bill No 17 - Paintwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R		

<u>PAINTWORK, ETC PREVIOUSLY PAINTED WORK</u>					
<u>PAINT ON FLOATED PLASTER</u>					
<u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats Plascon Velvagro (or equal and approved) non-drip enamel paint. Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u>					
<u>Paint Type A (To Architects approval)</u>					
1	On internal walls	m2	1 630		
<u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats Plascon Velvagro (or equal and approved) non-drip enamel paint. Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u>					
<u>Paint Type B (To Architects approval)</u>					
2	On external walls	m2	1 731		
<u>ON FIBRE CEMENT</u>					
<u>Prepare, stop and apply one coat plaster primer, undercoat and two coats "Plascon kitchens and bathrooms"(or equal and approved) premium quality water based enamel to manufacturers specifications. White paint</u>					
3	On fibre cement ceiling	m2	1 041		
<u>ON PLASTERBOARD</u>					
<u>Prepare, stop and apply one coat plaster primer, undercoat and two coats "Plascon Polvin"(or equal and approved) super acrylic pva paint to manufacturers specifications. White paint</u>					
4	On gypsum plasterboard ceiling	m2	610		
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 17 - Paintwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>ON METAL</u>					
<u>Prepare, stop and apply one Zinc chromate primer/approved primer and two coats approved enamel paint.</u>					
7	Door frame	m2	29		
8	On palisade fence panels	m2	778		
<u>PAINT ON WOOD</u>					
<u>Prepare and paint one undercoat and two coats high gloss paint approved by the architect apply to manufacturers detail and specifications.</u>					
9	On Doors	m2	69		
<u>Prepare and paint two coats mahogany tint varnish, apply to manufacturers detail and specifications.</u>					
10	On Doors	m2	20		
<u>PAINTWORK, ETC ON NEW WORK</u>					
<u>PAINT ON FLOATED PLASTER</u>					
<u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats Plascon Velvaglo (or equal and approved) non-drip enamel paint. Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u>					
<u>Paint Type A (To Architects approval)</u>					
11	On internal walls	m2	96		
<u>Prepare, stop and apply one coat Plaster Primer and 2 finishing coats Plascon Velvaglo (or equal and approved) non-drip enamel paint. Preparation of walls and application of paint to to manufactures specification. Colour by Architect</u>					
Carried to Collection				R	
Section No. 2 Section 2 - Builders' Work Bill No 17 - Paintwork PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Section No. 2				
Bill No. 17				
Bill No 17 - Paintwork				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	145			
Total Brought Forward from Page No.	146			
Total Brought Forward from Page No.	147			
Total Brought Forward from Page No.	148			
Total Brought Forward from Page No.	149			
Total Brought Forward from Page No.	150			

Carried Forward to Summary of Section No. 2

R

Section No. 2
Section 2 - Builders' Work
Bill No 17 - Paintwork
PROVISIONAL BILL OF QUANTITIES
BID NUMBER: NWDOH/PS/019/11

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

Bill No	SECTION SUMMARY - Section 2 - Builders' Work	Page No	Amount
1	Bill No 1 - Alterations	65	
2	Bill No.2 -Earthworks	66	
3	Bill No.3 - Concrete	73	
4	Bill No 4 - Masonry	76	
5	Bill No 5 - Waterproofing	79	
6	Bill No 6 - Roof Covering	83	
7	Bill No 7 - Carpentry and Joinery	88	
8	Bill No 8 - Ceilings, Partitions and access flooring	94	
9	Bill No 9 - Floor Coverings, Wall Linning, etc.	100	
10	Bill No 10 - Ironmongery	107	
11	Bill No 11 - Structural steel	112	
12	Bill No 12 - Metalwork	120	
13	Bill No 13 - Plastering	123	
14	Bill No 14 - Tiling	126	
15	Bill No 15 - Plumbing and drainage	141	
16	Bill No 16 - Glazing	144	
17	Bill No 17 - Paintwork	151	
Carried to Final Summary			
Section No. 2 Section 2 - Builders' Work PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11			

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 5</u> <u>BILL NO. 1</u> <u>PROVISIONAL SUMS</u> <u>PREAMBLES</u>For preambles see "<u>Standard Model Specifications for Building Works PW371/Oct 93</u>"			
	1. All provisional sums cover the supply of material and equipment and of installation where applicable by firms of specialists. Provisional sums are not and do not include for builder's discount, but the tenderer may allow under the item for "Profit" . The tenderer is referred to item B7.1 and B7.2 in Section 1 ("Preliminaries") for the definitions and adjustment of "Attendance". 2. Under no circumstances may any Prime Cost or Provisional Sum, etc be extended at an amount lower than the amount given in this Bill Provisional Sums may be omitted or reduced at the Employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to Provisional Sums or P.C. Amounts or any loss of profit related thereto. 3. The following provisional sums for work to be executed by selected sub-contractors.			
	Carried to Collection Section No. 3 Section 5 - Provisional Sums Bill No 1 - Provisional Sums PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11		R	

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

<u>DOMESTIC SUB-CONTRACTORS</u>				
<u>LANDSCAPING</u>				
1	Provide a sum of R 3 300 000.00 (Three Million Three Hundred Thousand Rands) for landscaping including training of groundsman and maintenance for a period of 12 months post practical completion.	Item	3 300 000.00	
2	Attendance	Item		
3	Profit	Item		
<u>WATER SUPPLY</u>				
4	Provide a sum of R 1 000 000.00 (One Million Rands) for water supply and storage.	Item	1 000 000.00	
5	Attendance	Item		
6	Profit	Item		
<u>SEWER RETICULATION</u>				
7	Provide a sum of R 300 000.00 (Three Hundred Thousand Rands) for sewer reticulation	Item	300 000.00	
8	Profit	Item		
9	Attendance	Item		
<u>WATER PURIFICATION PLANT</u>				
10	Provide a sum of R 1 500 000.00 (One Million Five Hundred Thousand Rands) for completion of building and external electrical works	Item	1 500 000.00	
11	Profit	Item		
12	Attendance	Item		
<u>MECHANICAL WORKS</u>				
13	Provide a sum of R 8 650 000.00 (Eight Million Six Hundred and Fifty Thousand Rands) for mechanical works	Item	8 650 000.00	
Carried to Collection			R	
Section No. 3 Section 5 - Provisional Sums Bill No 1 - Provisional Sums PROVISIONAL BILL OF QUANTITIES BID NUMBER: NWDOH/PS/019/11				

**COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE
NORTH WEST PROVINCE**

14	Profit	Item			
15	Attendance	Item			
	<u>DECANTING</u>				
16	Provide a sum of R 100 000 (One Hundred Thousand Rands) for decanting	Item		100 000.00	
17	Profit	Item			
18	Attendance	Item			
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>				
19	Provide a sum of R 39 000.00 (Thirty Nine Thousand Rands) for the Client Liaison Officer for a duration of 6 months	Item		39 000.00	
20	Profit	Item			
21	Attendance	Item			
Carried to Collection				R	
Section No. 3					
Section 5 - Provisional Sums					
Bill No 1 - Provisional Sums					
PROVISIONAL BILL OF QUANTITIES					
BID NUMBER: NWDOH/PS/019/11					

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE NORTH WEST PROVINCE

[illegible]

SECTION 4 – ELECTRICAL INSTALLATIONS

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: FIXED, VALUE AND TIME RELATED CHARGES							
1.1	General							
	Allow for complying with all clauses as per tender documentation, including all Special and General conditions of Contract and Labour requirements, and for providing all works and services for which no specific items are listed in the Bills of Quantities.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.2	Site Establishment							
	Site establishment and for providing a site office, tools store, adequate and suitable water, sanitary and first aid services, communication and A4-A3 printing/scanning/faxing facilities.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.3	Supervision and Management							
	Site administration and for attending all inspections and site meetings							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.4	Storage and Insurance							
	Provide for storage of plant, materials and equipment on site including protection thereof and for obtaining and providing all sureties and insurances called for in terms of this contract.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.5	Notices and Fees							
	Allow for co-ordination with other contractors, giving notice to the internet and telephone service providers and paying all required fees. Liaising with Supply Authority for isolation and disconnections, from supply points. Connection and reconnection to supply points.							
a	Fixed	Sum	0					
b	Value	Sum	0					
1.6	Manufacturer's Workshop Drawings							
	Provision of workshop drawings and technical information including data sheets and schematic drawings for approval							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.7	Switching Cost							
	Liaising with Supply Authority for isolation and disconnections, from supply points. Connection and reconnection to Supply Authority supply points.							
a	Fixed	Sum	0					
b	Value	Sum	0					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
1.8	As-Built Information							
	Supply five full sets of as-built drawings to show the exact positions of cables, cable joints road crossings, etc. as well as instruction manuals & spare parts catalogues to spec. These as-built drawings must be handed to the Engineer on completion of the contract.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.9	O&M Manuals, Catalogues and Reports							
	Preparation of O & M manuals and re-commissioning reports.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.10	Surveying							
	Surveying and setting out of pole positions and cable routes.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.11	Site De-establishment							
	Site de-establishment and breakdown.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.12	OHS Requirements							
	Safety File including approval, PPE, Safety Harnesses, Site Inductions, Medicals etc.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.13	Training and Handover							
	After successfull final testing and commissioning of complete installation allow for training of end-user personnel and handover complete project to client.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.14	Guarantees							
	Allow for a guarantee for a defects liability period of 12 months against defects in components and installation workmanship.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.15	Samples							
	Allow for selection and presentation of samples to the Engineer. Materials should only be purchased after obtaining approval from the Engineer. Incorrect materials will be replaced with correct materials.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.16	Existing Materials and Equipment							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 1: Preliminaries & General

Section 2: Unscheduled Work and Variations

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 1: Preliminaries & General

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Fixed and Value Based Charges	.....
2	Section 2: Unscheduled Work and Variations	.....
Total Carried Forward To Summary Of Schedules		.....

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 2: Low Voltage Distribution

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: DISTRIBUTION BOARDS							
	Complete Supply and installation: Low Voltage Reticulation							
	Rates shall include supply, delivery, storage, installation, accessories, supports. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by electronic subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	Distribution Board Modification							
	Dismantle, load, deliver to manufacturer existing main distribution board, reconfigure, deliver back to site and re-install complete distribution kiosk as per drawings.							
	Work shall involve; - Merging essential and non-essential loads sections into one new busbar so that all loads are fed via the generator. - Installation of new main switch.							
1.1.1	Main LT Distribution Board - DB1-LT	No	1				Rate Only	
1.2	New Distribution Board							
	Supply and install distribution board as detailed and specified on the wiring diagram, standard quality specification for general electrical installations (CHCs) (DOH) and standard quality specification for electrical material and equipment (CHCs) (DOH).							
	Distribution board shall comply with SANS 1765 Part II and shall be equipped with a 1.6mm thick minimum sheet steel reinforced tray, suitably braced and stiffened to carry the chassis, door and equipment. Distribution board shall be rendered moisture proof and vermin proof and shall be adequately ventilated according to IP54 minimum.							
	All distribution board doors shall have high security sliding locking mechanism that will withstand vandalism and must be padlockable by means of rectangular type padlocks. The locking mechanism shall have a cover that prohibits the use of a bolt cutter to remove the padlock whilst providing easy access for operation. (Refer to drawing detail).							
	Body to be coloured "Red" with powder coating, front panels "Red", complete with all accessories and sheet metal and all frames, sub-frames, busbars, fixtures, fittings, labels, signs, legend-cards etc.							
	NB: Distribution Boards to be fitted in the factory and tested in accordance to specifications. Rate shall include delivery, off-loading and storage to site.							
	Make extra provision to connect 3 cables onto the adjustable main circuit breaker of 600-1200A.							
1.2.1	Main LT Distribution Board - DB1-LT	No	1					
1.3	Distribution Board Service and Maintenance							
	Dismantle, load, deliver to manufacturer existing main distribution board, reconfigure, deliver back to site and re-install complete distribution kiosk as per drawings.							
	Work shall involve; - Merging essential and non-essential loads sections into one new busbar so that all loads are fed via the generator. - Installation of new main switch.							
1.3.1	Service and maintain distribution board as follows;							
	Total Carried Forward							

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 2: Low Voltage Distribution

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 2: Low Voltage Distribution

Section 2: Low Voltage Cabling

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 2: LOW VOLTAGE CABLING							
	Rates shall include supply, delivery, storage, installation, accessories, supports. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by electronic subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
2.1	Transformer T1 to DB1-LT							
	Connect 600V/1000V reticulation cables, bare Copper earth conductors installed in trenches, sleeves, cable ladders or cable trays.							
a	Pair existing 120 mm², 4-core and 2x95mm², 4-core PVC/PVC/SWA/PVC Copper cables to run in parallel as one circuit on each end using already installed cable terminations.	No	2					
b	120 mm², 4-core PVC/PVC/SWA/PVC cable terminations.	No	4					
2.2	DB1-LT to DB1-26 (Data Tower)							
	Supply, deliver, install and connect 600V/1000V reticulation cables, bare Copper earth conductors installed in trenches, sleeves, cable ladders or cable trays.							
	Supply, deliver and install cable terminations including all fastening materials, glands, shrouds, lugs and the connection of the cable lugs to the specified terminal equipment and connectors:							
	Cables to have stranded Copper conductors. (Installation rate to include for installation of cable within wireways, trays ducts, sleeves, trenches, etc).							
a	16 mm², 4-core PVC/PVC/SWA/PVC Copper cable.	m	180					
b	16 mm², 4-core PVC/PVC/SWA/PVC cable terminations.	No	4					
c	10 mm², bare Copper earth wire.	m	180					
d	10 mm², bare earth Copper wire terminations.	No	4					
2.3	Changeover Panel to Generator to DB1-LT							
	Supply, deliver, install and connect 600V/1000V reticulation cables, bare Copper earth conductors installed in trenches, sleeves, cable ladders or cable trays.							
	Supply, deliver and install cable terminations including all fastening materials, glands, shrouds, lugs and the connection of the cable lugs to the specified terminal equipment and connectors:							
	Cables to have stranded Copper conductors. (Installation rate to include for installation of cable within wireways, trays ducts, sleeves, trenches, etc).							
a	95 mm², 4-core PVC/PVC Copper cable.	m	20					
b	95 mm², 4-core PVC/PVC cable terminations.	No	4					
c	50 mm², bare Copper earth wire.	m	20					
d	50 mm², bare earth Copper wire terminations.	No	4					
2.4	Main LT DB (MDB1/2) to DB2-19 (Radiology)							
a	50 sq. mm 4 core PVC/PVC/SWA/PVC Copper cable.	m	135					
b	50 sq. mm 4 core PVC/PVC/SWA/PVC cable terminations.	No	2					
c	35 sq. mm bare Copper earth wire.	No	135					
d	35 sq. mm bare earth Copper wire terminations.	m	2					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 2: Low Voltage Distribution

Section 3: Low Voltage Metering

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 2: Low Voltage Distribution

Section 4: Trenching

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: TRENCHING							
	Rates shall include supply, delivery, storage, installation, accessories, supports. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by electronic subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
4.1	UNDERGROUND SCANNING							
a	GPR, GeoScan, Utility Locating.							
	Contractor to present GPR scanner to Engineer for approval and issue a scanning report upon completion of scanning the ground.	m	100					
b	Analyse data and issue report.	No	1					
4.2	CONSTRUCT CABLE TRENCHES							
	Excavate, normal backfill compacted to 85% MMDD for 450-600 mm wide x 700-1100 mm deep measured in linear length.							
	Rate shall include lifting finished surfaces such as paving, kerbs, grass etc. and reinstatement to original state or better. Rate shall also be inclusive of re-instatement and compaction of excavated materials.							
	All sleeves shall be laid on a 150 mm thick bedding of sifted river sand as well as a covering of an equal thickness of the same material where required.							
	Trenches shall be excavated to following minimum depths below the finished ground level irrespective of the size of sleeve installed;							
	i) 1000 mm for medium voltage (MV) cables							
	ii) 700 mm for low voltage (LV) cables							
	iii) 900mm for fibre cables							
a	In hand-pickable soil.	m	230					
b	In soft rock.	m	10					
c	In hard rock.	m	2					
d	Supply and installation of sifted sand in trenches.	m³	22					
e	PVC danger warning tape installed 300 mm above cable.	m	230					
4.3	ROAD CUTTING							
	Road surface excavation (micro groove) width 30 mm, depth 100 mm.							
	Workload including but not limited to: Using cutting machine cut road material, dig road surface, fix up bottom of trench, place dregs at the side of trench properly. Prepare road materials, according to the original standard to recover the road surface, including materials.							
	Paving shall be lifted and not cut.							
a	Concrete surface	m	20					
b	Asphalt	m	20					
c	Paving	m	20					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 2: Low Voltage Distribution

Section 4: Trenching

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Conventional road crossing (Saw Cut) width 450 mm, depth 100 mm. Workload including but not limited to: Using saw to cut road material, dig road surface, fix up bottom of trench, place dregs at the side of trench properly. Prepare road materials, according to the original standard to recover the road surface, including materials. Paving shall be lifted and not cut.							
d	Concrete surface	m	20					
e	Asphalt	m	20					
f	Paving	m	20					
4.4	CABLE SLEEVES							
a	Supply and install 110 mm Ø HDPE sleeves (Code Name Kabelflex - Black) or similar in excavated trenches including sealing of sleeve ends. Note: Excavation is measured separately.	m	30					
b	Supply and install 110 mm Ø HDPE sleeves (Code Name Kabelflex - Green) or similar in excavated trenches including sealing of sleeve ends. Note: Excavation is measured separately.	m	1					
c	Supply and install 50 mm Ø HDPE sleeves (Code Name Kabelflex - Black) or similar in excavated trenches including sealing of sleeve ends. Note: Excavation is measured separately.	m	30					
d	Supply and install 50 mm Ø HDPE sleeves (Code Name Kabelflex - Green) or similar in excavated trenches including sealing of sleeve ends. Note: Excavation is measured separately.	m	1					
f	Remove debris and blockages from sleeves.	No	5					
4.5	INSPECTION PIT							
a	Clean and remove debris from manhole.	No	10					
4.6	SUNDRIES							
a	Supply and install cable markers indicating ring cable route as specified in the Technical Specification.	No.	20					
b	Erect danger warning signage made out of barricading tape including supports, etc., as required by law and as described for open trenches and areas where machinery is being used.	m						
c	Provide 5.0 mm dia. drawwire for electronic services sleeves.	m	65					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 2: Low Voltage Distribution

Section 5: Testing and Commissioning

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 5: TESTING AND COMMISSIONING							
5.1	INSPECTION							
a	Inspect complete installation for each building and include in consolidated report with pictures; Work to involve; Checking, measuring and confirming; - Size of distribution board i.e number of spare ways and spare space. - Cable sizes for circuits feeding socket outlets, lights, HVAC equipment and any other equipment. - Indicate the ratings of protective devices for each circuit. - Open and close circuits from switches, disconnectors and switch-disconnectors and record each result. NB: Installation and remedial work related to the problems stated above shall <u>ONLY</u> be executed upon engineer's instruction.	No	28					
b	Pre-installation duct testing (Ball bearing test). Check that all existing sleeves for electronic services are continuous. Issue a report of findings to the Engineer in your report indicate all blocked locations.	m	300					
5.2	PRE-TESTS							
	Conduct the following tests (Include test results and findings in your consolidated report prior to executing any installation or remedial works); i. Continuity of protective conductors. ii. Insulation resistance. iii. Protection by separation of circuits. iv. Floor and wall resistance. v. Automatic disconnection of supply. vi. Polarity. vii. Functional performance. viii. Phase rotation. NB: The tests mentioned above shall <u>ONLY</u> be conducted in the presence of the engineer or his representative to remain valid.							
a	DB1-LT (MDB-1 & MDB-2)	No.	1					
b	K-1	No.	1					
c	K-2	No.	1					
d	K-3	No.	1					
5.3	TEST AND COMMISSION							
	Test, commission and issue a COC for the complete installation for all circuits including earth conductors, switchgear, auxiliary equipment, fixed equipment, appliances, etc., in accordance with the SANS 0142-1 (2017) and OHS Act 1993 requirements per Distribution Board:							
a	DB1-LT (MDB-1 & MDB-2)	No.	1					
b	K-1	No.	1					
c	K-2	No.	1					
d	K-3	No.	1					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 2: Low Voltage Distribution

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Low Voltage Cabling	.....
3	Section 3: Low Voltage Metering	.....
4	Section 4: Trenching	.....
5	Section 5: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 3: Building Services [Electrical]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 1: Distribution Boards

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	Clean DB and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	18					
	Supply and install distribution board as detailed and specified on the wiring diagram, standard quality specification for general electrical installations (CHCs) (DOH) and standard quality specification for electrical material and equipment (CHCs) (DOH). Distribution board shall comply with SANS 1765 Part II and shall be equipped with a 1.6mm thick minimum sheet steel reinforced tray, suitably braced and stiffened to carry the chassis, door and equipment. Distribution board shall be rendered moisture proof and vermin proof and shall be adequately ventilated according to IP54 minimum. All distribution board doors shall have high security sliding locking mechanism that will withstand vandalism and must be padlockable by means of rectangular type padlocks. The locking mechanism shall have a cover that prohibits the use of a bolt cutter to remove the padlock whilst providing easy access for operation. (Refer to drawing detail). Body to be coloured "Red" with powder coating, front panels "Red", complete with all accessories and sheet metal and all frames, sub-frames, busbars, fixtures, fittings, labels, signs, legend-cards etc. NB: Distribution Boards to be fitted in the factory and tested in accordance to specifications. Rate shall include delivery, off-loading and storage to site.							
1.1.4	Remove, decommission and store away Distribution Board including removal/disconnection of main supply cable.							
a	Distribution Board DB1-4 (Existing Emergency unit DB)	No	1					
1.2	New Distribution Boards							
	Supply and install distribution board as detailed and specified on the wiring diagram, standard quality specification for general electrical installations (CHCs) (DOH) and standard quality specification for electrical material and equipment (CHCs) (DOH). Distribution board shall comply with SANS 1765 Part II and shall be equipped with a 1.6mm thick minimum sheet steel reinforced tray, suitably braced and stiffened to carry the chassis, door and equipment. Distribution board shall be rendered moisture proof and vermin proof and shall be adequately ventilated according to IP54 minimum. All distribution board doors shall have high security sliding locking mechanism that will withstand vandalism and must be padlockable by means of rectangular type padlocks. The locking mechanism shall have a cover that prohibits the use of a bolt cutter to remove the padlock whilst providing easy access for operation. (Refer to drawing detail). Body to be coloured "Red" with powder coating, front panels "Red", complete with all accessories and sheet metal and all frames, sub-frames, busbars, fixtures, fittings, labels, signs, legend-cards etc. NB: Distribution Boards to be fitted in the factory and tested in accordance to specifications. Rate shall include delivery, off-loading and storage to site.							
1.2.1	Distribution Board DB1-25 (Fire pump room)	No	1					
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 3: Building Services [Electrical]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 2: Wireways and Channeling Systems

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 2: WIREWAYS AND CHANNELING SYSTEMS							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by Electronic Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
2.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	20 mm Ø PVC.	m	550					
b	25 mm Ø PVC.	m	50					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	20 mm Ø PVC.	m	550					
d	25 mm Ø PVC.	m	50					
	Conduit chased into brick work and surface made good ith matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
e	20 mm Ø PVC.	m	1,500					
f	25 mm Ø PVC.	m	100					
	Conduit surface mount in ceiling void or applicable area:							
g	20 mm Ø PVC.	m	3,500					
h	25 mm Ø PVC.	m	20					
i	20 mm Ø light duty galvanized steel.	m	20					
j	25 mm Ø light duty galvanized steel.	m	20					
k	20 mm Ø PVC flexible conduit.	m	20					
l	25 mm Ø PVC flexible conduit.	m	20					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	10					
a	100 mm x 100 mm x 50 mm pressed steel.	No	15					
b	3 compartment galvanized steel outlet box for bed head unit.	No	9					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 2: Wireways and Channeling Systems

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Round boxes including covers:							
a	PVC 60 mm round, 25 mm deep for 20 mm Ø conduit.	No	10					
b	Galvanized steel 60 mm round, 25 mm deep junction box for 20 mm Ø conduit.	No	15					
c	Galvanized steel 60 mm round, 25 mm deep junction box for 25 mm Ø conduit.	No	12					
2.3	DRAW BOXES							
	Supply and install draw box. Draw box shall be mild steel front access with standard lockable latch type door handles. Body to be coloured "White" powder coating complete with all accessories and sheet metal and all frames, sub-frames.							
a	Recessed wall mount 600 mm long x 450 mm wide x 110 mm deep distribution/junction/draw box.	No	3					
b	Recessed wall mount 450 mm long x 300 mm wide x 125 mm deep distribution/junction/draw box.	No	3					
c	Surface wall mount 450 mm long x 300 mm wide x 125 mm deep distribution/junction/draw box.	No	6					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	4					
2.4	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
a	76 x 63 mm (P8000) wiring duct c/w cover.	m	150					
b	127 mm x 76 mm, 0.8 mm thick (P9000) wiring trunking with cover plates.	m	100					
	PVC wiring trunking compact mini complete with accessories such as internal angles, stop ends, bends, covers etc. but excluding wiring.							
b	25 x 16 mm (YT/2) wiring duct and c/w cover.	m	250					
c	40 x 16 mm (YT/4) wiring duct and c/w cover.	m	100					
2.5	POWER SKIRTING							
	Supply and install aesthetic textured to hospital grey finish multiskirt aluminum power skirting complete with all accessories including bends, elbows, end caps cover plates etc.							
a	2 compartment multi-skirt trunking fixed to brick work with cover plates.	m	70					
2.6	CABLE TRAYS							
	Supply and install medium duty hot dip galvanized welded wire mesh cable tray complete with all accessories including bends, junction units, suspension fixtures, elbows, splices, fittings, fasteners, etc:							
a	100 mm wide, 50 mm high cable tray.	m	200					
	Supply and install medium duty hot dip galvanized perforated cable tray complete with all accessories including bends, junction units, suspension fixtures, cover, elbows, splices, fittings, fasteners, etc:							
b	100 mm wide, 25 mm high cable tray c/w cover.	m	50					
2.7	BED HEAD UNITS							
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 2: Wireways and Channeling Systems

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Supply, deliver, install, test and commission the surface mount medical trunking (bed head unit) as specified in the Technical Specifications complete with all accessories. NB: Refer to drawing 1115B-EL-25 and technical specification for details.							
a	Type 1	No	1					
b	Type 2	No	1					
c	Type 3	No	1					
	Modify bedhead unit including internal wiring to accommodate medical IT sockets as specified in the Technical Specifications complete with all accessories. Work shall include making cut-outs for new double pole medical IT outlets, nurse call outlets, data outlets. NB: Refer to drawing 1115B-EL-25 and technical specification for details.							
d	Type 3	No	6					
	Supply, deliver, install, test and commission the surface mount aluminium service duct as specified in the Technical Specifications complete with all accessories. NB: Refer to drawing 1115B-EL-25 and technical specification for details. Surface finish shall match existing/new bed head unit.							
e	2000 - 2500 mm unit	No	46					
2.8	SUNDRIES							
	Blank covers c/w screws;							
a	Blank steel cover plate (White) for 100 mm x 50 mm conduit box.	No	5					
b	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	5					
c	PVC cover for 60 mm round, 25 mm deep, for 25 mm Ø junction box. Drawwire:	No	10					
d	Supply and install 2.0 mm dia. drawwire in electronic cable wireways.	m	150					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 4: Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: APPLIANCES							
4.1	SOCKETS OUTLETS							
4.1.1	Supply, deliver and install power skirting mounted socket outlets. The rate shall include all other accessories that shall make the installation operational including cover plates.							
a	250 V, 16 A, standard round 3-pin for power skirting mounting 1 gang switched socket outlet c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlet as per SANS 10142-1 (2017) requirements.	No	30					
b	250 V, 16 A, small round 3-pin for power skirting mounting 1 gang switched socket outlet c/w steel cover plate (white) suitable to accommodate SANS 164-2 socket outlets as per SANS 10142-1 (2017) requirements.	No	1					
c	250 V, 16 A, horizontally shaved earth, standard round 3 pin for power skirting mounting 1 gang switched socket outlet c/w steel cover plate (Red - Dedicated) suitable to accommodate SANS 164-1 socket outlet as per SANS 10142-1 (2017) requirements.	No	1					
d	250 V, 16 A, 45° shaved earth, standard round 3 pin for power skirting mounting 1 gang switched socket outlet c/w steel cover plate (Red - Dedicated) suitable to accommodate SANS 164-1 socket outlet as per SANS 10142-1 (2017) requirements.	No	1					
4.1.2	Supply, deliver and install flush mounted socket outlets. The rate shall include all other accessories that shall make the installation operational including cover plates.							
a	250 V, 16 A, standard 3-pin flush mounted, single switched socket outlet c/w steel cover plate (white) as per SANS 164-1.	No	5					
b	250 V, 16 A, standard 3-pin flush mounted, double switched socket outlet c/w steel cover plate (white) as per SANS 164-1.	No	5					
c	250 V, 16 A, combination flush mounted, 3 gang switched socket outlet with 1 x standard round 3-pin & 2 x 3 small round pin ZA socket complete with steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 combination socket outlets as per SANS 10142-1 (2017) requirements.	No	710					
d	250 V, 16 A, horizontally shaved earth, standard 3-pin flush mounted, single switched socket outlet c/w steel cover plate (Red - Dedicated) as per SANS 164-1.	No	1					
e	250 V, 16 A, 53° clockwise shaved earth, standard 3-pin flush mounted, single switched socket outlet c/w steel cover plate (Blue - Dedicated) as per SANS 164-1.	No	1					
4.1.3	Supply, deliver and install surface mounted socket outlets. The rate shall include all other accessories that shall make the installation operational including cover plates and surface mounted outlet box.							
a	250 V, 16 A, standard 3-pin, surface mount single switched socket outlet c/w steel cover plate (white) and with surface mounted outlet box.	No	1					
b	250 V, 5 A, standard 3-pin socket module unswitched c/w steel cover plate (white) and with 60mm PVC round surface mounted box. NB: Socket shall be used for plugging specific light fittings and shall be mounted on roof trusses or slab.	No	100					
4.1.4	Supply, deliver and install surface mounted socket outlets enclosed in IP54 weather box. The rate shall include all other accessories that shall make the installation operational including cover plates and weather box.							
a	250 V, 16 A, standard 3-pin socket surface mount unswitched module c/w steel cover plate (white) and with surface mounted outlet box.	No	1					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 4: Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
4.1.5	Supply, deliver and install wire trunking mounted socket outlets. The rate shall include all other accessories that shall make the installation operational including cover plates where applicable.							
a	250 V, 5 A, standard 3-pin wiring trunking socket module unswitched c/w steel cover plate (white). NB: Socket shall be used for plugging specific light fittings and shall be mounted on wire trunking.	No	1					
4.1.6	Uninstall socket outlets irrespective of type and store safely.							
a	All types.	No	400					
4.2	ISOLATORS							
4.2.1	Supply, deliver and install power skirting mounted isolators The rate shall include all other accessories that shall make the installation operational including cover plates.							
a	250 V, 20 A, double pole isolator for power skirting mounting c/w steel cover plate (white).	No	4					
4.2.2	Supply, deliver and install flush mounted isolators. The rate shall include all other accessories that shall make the installation operational including cover plates.							
a	250 V, 20 A, double pole isolator, flush mounted, c/w steel cover plate (white).	No	15					
b	250 V, 32 A, double pole isolator, flush mounted, c/w steel cover plate (white).	No	12					
c	250 V, 60 A, double pole isolator, flush mounted, c/w steel cover plate (white).	No	12					
4.2.3	Supply, deliver and install surface isolators enclosed in IP54 weather box. The rate shall include all other accessories that shall make the installation operational including cover plates and weather box.							
a	250 V, 20 A, double pole isolator, surface mounted c/w steel cover plate (white) and with surface mounted outlet box.	No	36					
b	250 V, 32 A, double pole isolator, surface mounted c/w steel cover plate (white) and with surface mounted outlet box.	No	2					
4.2.4	Uninstall isolator irrespective of type and store safely.							
a	All types.	No	20					
5.7	MECHANICAL SWITCHES							
	Supply, deliver and install light switch complete with steel cover plate and all accessories:							
a	16 A one lever, 1-way flush mount switch complete with cover plate.	No	32					
b	16 A one lever, 2-way flush mount switch complete with cover plate.	No	2					
c	16 A two lever, 1-way flush mount switch complete with cover plate.	No	6					
d	16 A two lever, 1-way & 2-way flush mount switch complete with cover plate.	No	4					
e	16 A 3 way rotary dimmer switch unit complete with cover plate.	No	4					
5.8	ELECTRONIC SWITCHES							
	Supply, deliver and install electronic switches complete with all accessories and as mounted:							
a	20 A photocell installed in outdoor bulkhead light fitting with clear diffuser and IP65.	No	7					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 4: Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
b	250V, 15 Ampere 2-wire dual technology 360 degree occupancy sensor ultrasonic and passive infrared ceiling sensor of ~ 50 mm² coverage, occupancy delay time of 6-15 minutes c/w power supply unit and interconnections:	No	152					
5.9	CONTROL GEAR							
	Supply, deliver and install control gear complete with all accessories and as mounted:							
a	16 A dimmer switch module.	No	4					
b	14W T5 electronic ballast for fluorescent luminaire.	No	4					
c	28W T5 electronic ballast for fluorescent luminaire.	No	4					
d	54W T5 electronic ballast for fluorescent luminaire.	No	4					
e	18W T8 electronic ballast for fluorescent luminaire.	No	4					
f	36W T8 electronic ballast for fluorescent luminaire.	No	4					
g	58W T8 electronic ballast for fluorescent luminaire.	No	4					
h	T5 stater for fluorescent/LED luminaire.	No	4					
i	T8 stater for fluorescent/LED luminaire.	No	4					
5.10	Uninstall switches irrespective of type and store safely.							
a	All types.	No	20					
5.11	Connect fixed equipment (including 1m kopex sprague and connector).							
a	3-phase plus earth.	No	12					
b	Single phase plus earth wire.	No	12					
5.12	SUNDRIES							
a	Blank steel cover plate (White) for 100 mm x 50 mm conduit box.	No	2					
b	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	10					
c	Supply and install engraved labels on each light switch, SSO and isolator face plate, glued and screwed.	No	700					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 5: Electrical Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT		
							R	c	
	SECTION 4: ELECTRICAL EQUIPMENT								
4.1	Uninstall equipment listed below irrespective of type and store safely.								
a	230V, 52" Decor industrial ceiling fan of white finish complete with fan control unit.	No	25						
b	750W, 230 VAC, panel space heater.	No	30						
4.2	MEDICAL ISOLATING TRANSFORMER MONITORING PANEL								
a	Supply and install standard isolated power panel complete with built-in medical isolation transformer. The panel shall be for single phase, 50Hz, 5 kVA medical isolating transformers (Isolock) as installed. Panel shall give visual indication of the level of current in milliamperes (mA). If the system reaches a threshold of 3.7 mA, the visual and audible alarm indicates the presence of an excessive amperage level instead of disconnecting the circuit. The Panel shall serve the emergency building and shall be located as per drawings with clear line of visibility to nurse station. A line isolation monitor (LIM) indicates possible leakage or fault currents from all isolated conductors to ground - A green LED remains lit when the system is adequately isolated from ground. - Under normal voltage conditions, a red LED lamp and audible warning signal activate when a fault hazard current (fault leakage current only) reaches a threshold value of 3.7 mA, or when the total hazard current reaches a threshold value of 5.0 mA. - A digital display indicates the totla hazard current of the system. Standard Panel - for 5kVA isolation transformer - connect up to 16 circuits. Isolation Transformer - 5 kVA - Primary voltages: 240 V - Secondary voltages: 120 V - Class 180 insulation - Electrostatic shiel - Maximum sound level of 35dB - Low leakage - Compliance with UL 1047 and CSA Z32.2 Panel Interior - Accepts plug-on or bolt-on branch circuit breakers - 100 A interiors Branch Circuit Breakers - 10k AIR - QO (plug on) or QOB (bolt on) - 20 A: 2-pole (120 V) - 20, 30 50 or 60 A; 2-pole (208 or 240 V) Primary Circuit Breakers - QO circuit breakers for 120, 208 and 240 V system - H-frame circuit breakers for 277 and 480 V systems - 2-pole Line Isolation Monitor (LIM) - Automatic operating voltage selection - Automatic self test with data logging - Communication bus with centralized monitoring of LIM installations - Built-in ground fault location system - Plain text menu interface - Electrical system measurements for determining root cause of detected fault	No.	1					17,500	00
Total Carried Forward To Summary									

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 6: Light Fixtures

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 6: LIGHT FIXTURES							
6.1	LUMINAIRES							
	Supply, delivery and installation of light fittings complete with lamps, electronic control gear and all accessories:							
a	Type A1 Recessed mount 1200mm long x 600mm wide fluorescent IP20 luminaire c/w 4 x 28W T5 cool white lamp, double parabolic louvered reflectors & ECG (Similar or equal to currently installed fitting)	No	6					
b	Type A2 Recessed mount 1200mm long x 300mm wide fluorescent IP20 luminaire c/w 2 x 28W T5 cool white lamp, double parabolic louvered reflectors & ECG (Similar or equal to currently installed fitting)	No	1					
c	Type A3 Recessed mount 600mm long x 600mm wide fluorescent IP20 luminaire c/w 3 x 14W T5 cool white lamp, double parabolic louvered reflectors & ECG (Similar or equal to currently installed fitting)	No	4					
d	Type A4 Recessed mount slim 1200mm long x 600mm wide LED panel IP20 luminaire c/w 72W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED Panel Recessed 60 x 120)	No	5					
e	Type A5 Recessed mount slim 1200mm long x 300mm wide LED panel IP20 luminaire c/w 40W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED Panel Recessed 30 x 120)	No	1				Rate Only	
f	Type A6 Recessed mount slim 600mm long x 600mm wide LED panel IP20 luminaire c/w 36W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED Panel Recessed 60 x 60)	No	1				Rate Only	
g	Type A2 Recessed mount 1200mm long x 300mm wide fluorescent IP20 luminaire c/w 2 x 28W T5 cool white lamp, double parabolic louvred reflectors & ECG (Similar or equal to currently installed fitting)	No	1					
h	Type A3 Recessed mount 600mm long x 600mm wide fluorescent IP20 luminaire c/w 3 x 14W T5 cool white lamp, double parabolic louvred reflectors & ECG (Similar or equal to currently installed fitting)	No	4					
i	Type B1 Surface mount 1200mm long x 600mm wide fluorescent IP20 luminaire c/w 4 x 28W T5 cool white lamp, double parabolic louvred reflectors & ECG (Similar or equal to currently installed fitting)	No	1					
j	Type B2 Surface mount 1200mm long x 300mm wide fluorescent IP20 luminaire c/w 2 x 28W T5 cool white lamp, double parabolic louvred reflectors & ECG (Similar or equal to currently installed fitting)	No	5					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 6: Light Fixtures

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
k	Type B3 Surface mount 600mm long x 600mm wide fluorescent IP20 luminaire c/w 3 x 14W T5 cool white lamp, double parabolic louvred reflectors & ECG (Similar or equal to currently installed fitting)	No	5					
l	Type C1 Surface mount 1200mm long x 600mm wide fluorescent IP20 luminaire c/w 4 x 36W T5 cool white lamp, prismatic diffuser & ECG (Similar or equal to currently installed fitting)	No	1					
m	Type C2 Surface mount 1200mm long x 300mm wide fluorescent IP20 luminaire c/w 2 x 28W T5 cool white lamp, prismatic diffuser & ECG (Similar or equal to currently installed fitting)	No	10					
n	Type C3 Surface mount 600mm long x 600mm wide fluorescent IP20 luminaire c/w 3 x 14W T5 cool white lamp, prismatic diffuser & ECG (Similar or equal to currently installed fitting)	No	10					
o	Type C4 Surface mount slim 1200mm long x 600mm wide LED backlit panel IP20 luminaire c/w 72W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED backlit panel Surface 60 x 120)	No	1				Rate Only	
p	Type C5 Surface mount slim 1200mm long x 300mm wide LED backlit panel IP20 luminaire c/w 40W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED backlit panel Surface 30 x 120)	No	1				Rate Only	
q	Type C6 Surface mount slim 600mm long x 600mm wide LED backlit panel IP20 luminaire c/w 36W cool white LED lamp, aluminium frame, polycarbonate diffuser, LED driver & 3m cabtyre, white (Similar or equal to Spazio LED backlit panel Surface 60 x 60)	No	1				Rate Only	
r	Type D Round downlight c/w 1 x 18W cool white CFL lamp (Steel body with anodised aluminium reflector downlight, similar or equal to Radiant BA10)	No	5					
s	Type E Round downlight c/w 1 x 18W cool white CFL lamp (Steel body with anodised aluminium reflector downlight, similar or equal to Radiant BA39)	No	5					
t	Type E2 Round recessed downlight c/w 6W cool white LED lamp polycarbonate body and diffuser, 120 deg. beam angle & LED driver dimmable downlight (Similar or equal to Spazio Saturn CTC).	No	100					
u	Type F Surface mount round bulkhead IP65 c/w 2X18W warm white CFL lamps, high impact acrylic polycarbonate diffuser & ECG (Outdoor bulkhead luminaire similar or equal to Beka Series 30)	No	1					
v	Type H 1200mm long polycarbonate body ceiling fluorescent luminaire c/w 2 x 28W T5 cool white lamp, IP65 (Vapourproof), prismatic diffuser & ECG (Similar or equal to Radiant KB53).	No	15					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 6: Light Fixtures

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
w	Type H1 1200mm long cold rolled mild steel body ceiling fluorescent luminaire c/w 2 x 28W T5 cool white lamp, white epoxy diffuser & ECG (Similar or equal to).	No	5					
x	Type O Metal body with frosted bayonet lock-on glass shade decorative ceiling light c/w 18W CFL cool white (Similar or equal to Radiant JL25).	No	10					
6.2	EMERGENCY LUMINAIRES							
	Supply, delivery and installation of light fittings complete with lamps, electronic control gear and all accessories:							
a	Type EXIT-1 Non-maintained surface mount emergency exit pictogram luminaire.	No	1					
b	Type EXIT-2 Non-maintained surface mount emergency exit pictogram luminaire with running man and right arrow.	No	1					
c	Type EXIT-3 Non-maintained surface mount emergency exit pictogram luminaire with running man and left arrow.	No	1					
d	Type EXIT-2/3 Non-maintained surface mount emergency exit pictogram luminaire double sided with running man and left /right arrow.	No	1					
e	Type EXIT-4 Non-maintained surface mount emergency exit pictogram luminaire with running man and down arrow.	No	1					
f	Type EMERG Non-maintained surface mount emergency illumination light c/w 2X18W fluorescent lamps, acrylic prismatic diffuser & battery pack & CCG.	No	35					
5.6	SERVICING LUMINAIRES							
	Uninstall, store safely, clean with appropriate detergent, re-install and recommission existing luminaires,							
a	Interior light fixture	No	28					
b	Outdoor bulkhead	No	7					
	Repairs to light fixtures: Supply, store and install the spares listed below;							
c	Regulator ballast	No	30					
d	Starter	No	20					
5.5	LAMPS, TUBES							
	Supply and install lamps as specified:							
a	9-18 W CFL E27, warm or cool white output.	No	10					
b	9-18 W LED E27, warm or cool white output.	No	10					
c	9-18 W CFL bi-pin, warm or cool white output.	No	10					
d	1-10 W LED GU10, warm or cool white output.	No	10					
e	8 W T5 LED lamp, warm or cool white output [600mm].	No	10					
f	14 W T5 fluorescent lamp, warm or cool white output [600mm].	No	10					
g	18 W T8 fluorescent lamp, warm or cool white output [600mm].	No	10					
h	16 W T5 LED lamp, warm or cool white output [1200mm].	No	10					
i	28 W T5 fluorescent lamp, warm or cool white output [1200mm].	No	10					
Total Carried Forward								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 6: Light Fixtures

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
j	36 W T8 fluorescent lamp, warm or cool white output [1200mm].	No	10					
k	20 W T5 LED lamp, warm or cool white output [1500mm].	No	10					
l	54 W T5 fluorescent lamp, warm or cool white output [1500mm].	No	10					
m	58 W T8 fluorescent lamp, warm or cool white output [1500mm].	No	10					
5.6	MEDICAL EXAMINATION LIGHT FITTINGS							
	Supply, delivery and installation of light fittings complete with lamps, electronic control gear, mounting arm, and all accessories:							
a	Type W Wall/bedhead trunking mounted medical examination luminaire with the following features; - Mounted on wall/bedhead trunking - 220-240V AC 50 Hz operation with integral LV lighting transformer - 5xLEDs 12V DC 12W - Light field (10° spot) - Lamp contained within heat resisting high impact housing with hand grip and suitably ventilated complete with integral on/off switch - Lamp life to be min. 45000 hours - Colour temperature of lamp to be greater than 4500 K - Colour correction filter to be fitted to increase colour temperature to 4500 K - Colour rendering index >85 - Wall mounted units to have double length arms to allow a max. extension of 1500mm with 180 degree rotation of the lamp housing - Bedhead trunking units for individual beds to have double length arms to allow a max. extension of 1200mm with 180 degree rotation of the lamp housing - Installation details to be provided at the time of placement of orders - Illumination level at 1m min. 10,000 lux - 1.5m cordset and moulded plug top - Class 2 Type B electrical safety - IP54 - Body: White, Arms: Natural Anodised	No	1					
5.9	SUNDRIES							
b	Engraved labels on each light switch face plate, glued and screwed.	No	5					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

Section 7: Testing & Commissioning

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 7: TESTING & COMMISSIONING							
7.1	INSPECTION							
a	Inspect complete installation for each building and include in consolidated report with pictures; Work to involve; Checking, measuring and confirming; - Size of distribution board i.e number of spare ways and spare space. - Cable sizes for circuits feeding socket outlets, lights, HVAC equipment and any other equipment. - Indicate the ratings of protective devices for each circuit. - Open and close circuits from switches, disconnectors and switch-disconnectors and record each result. NB: Installation and remedial work related to the problems stated above shall <u>ONLY</u> be executed upon engineer's instruction.	No	29					
7.2	PRE-TESTS							
	Conduct the following tests (Include test results and findings in your consolidated report prior to executing any installation or remedial works); i. Continuity of protective conductors. ii. Insulation resistance. iii. Protection by separation of circuits. iv. Floor and wall resistance. v. Automatic disconnection of supply. vi. Polarity. vii. Functional performance. NB: The tests mentioned above shall <u>ONLY</u> be conducted in the presence of the engineer or his representative to remain valid.							
a	Up to 15 ways mains distribution board.	No	18					
b	16 to 24 ways mains distribution board.	No	4					
c	25 to 60 ways mains distribution board.	No	6					
d	60 ways and above mains distribution board.	No	3					
7.3	TEST, COMMISSION AND CERTIFICATE OF COMPLIANCE							
	Test, commission and issue a COC for the complete installation for all circuits including earth conductors, switchgear, auxiliary equipment, fixed equipment, appliances, etc., in accordance with the SANS 0142-1 (2017) and OHS Act 1993 requirements per Distribution Board:							
a	Up to 15 ways mains distribution board.	No	18					
b	16 to 24 ways mains distribution board.	No	4					
c	25 to 60 ways mains distribution board.	No	6					
d	60 ways and above mains distribution board.	No	3					
Total Carried Forward To Summary								

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 3: Building Services [Electrical]

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Wireways and Channelling Systems	.....
3	Section 3: Cabling	.....
4	Section 4: Appliances	.....
5	Section 5: Electrical Equipment	.....
6	Section 6: Light Fixtures	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 4: Street Lighting

Section 1: Trenches

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: EXCAVATION AND SUPPORTS							
	Complete Supply and installation: Streetlighting							
	Rates shall include supply, delivery, storage, installation, accessories, supports. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by electronic subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	TRENCHES FOR LOW VOLTAGE CABLES							
	Excavate, normal backfill compacted to 85% MMDD for 450-600 mm wide x 700-1100 mm deep measured in linear length.							
	Rate shall include lifting finished surfaces such as paving, kerbs, grass etc. and reinstatement to original state or better. Rate shall also be inclusive of re-instatement and compaction of excavated materials.							
	All sleeves shall be laid on a 150 mm thick bedding of sifted river sand as well as a covering of an equal thickness of the same material where required.							
	Trenches shall be excavated to following minimum depths below the finished ground level irrespective of the size of sleeve installed;							
	i) 1000 mm for medium voltage (MV) cables							
	ii) 700 mm for low voltage (LV) cables							
	iii) 900mm for fibre cables							
a	In hand-pickable soil.	m	50					
b	In soft rock.	m	1					
c	In hard rock.	m	1					
d	Supply and installation of sifted sand in trenches.	m³	10					
e	PVC danger warning tape installed 300 mm above cable.	m	50					
1.2	HOLES							
a	Excavation of 1700 mm deep holes for planting of poles.	No	1					
b	Excavation of 1000 mm deep holes for planting of poles.	No	1					
C	Excavation of 800 mm deep holes for planting of poles.	No	4					
1.3	LIGHTING SUPPORTS							
	All street lighting supports to be supplied complete with poles, switchgear compartment & cover plates, base plates where applicable etc.							
a	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 4.2 m for direct embedment in ground and complete with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing, access cover as per specifications	No	4					
b	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 3.6 m for direct embedment in ground and complete with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing and access cover as per specifications	No	1					
c	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 9.2 m for direct embedment in ground and complete with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing, matching 1-way spigot and access cover as per specifications	No	0					
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 4: Street Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
d	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 4.2 m for base plate mounting and complete with base plate and accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing and access cover as per specifications	No	1					
e	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 3.6 m for base plate mounting and complete with base plate with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing and access cover as per specifications	No	1					
f	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 9.2 m for base plate mounting and complete with base plate with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing, matching 1-way spigot and access cover as per specifications	No	0					
	Re-install existing lighting supports to be set plumb and adjusted to provide alignment to the roadway and buildings .							
g	Install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 4.2 m for direct embedment in ground and complete with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing, access cover as per specifications	No	4					
h	Install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 9.2 m for direct embedment in ground and complete with accessories including circuit breaker, 2.5 mm² internal wiring, BCEW, pole earthing, matching 1-way spigot and access cover as per specifications	No	4					
1.4	FOUNDATION WORK							
	Construct and erect foundation works and mounting plinth for mid hinge mast made from concrete complete with reinforcement as per structural engineer's detail.							
a	800 mm deep	No	1					
b	1200 mm deep	No	0					
c	1600 mm deep	No	0					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 4: Street Lighting

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 4: Street Lighting

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 4: Street Lighting

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Trenches	.....
2	Section 2: Cabling	.....
3	Section 3: Street Lights	.....
Total Carried Forward To Summary Of Schedules		.....

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 5: Emergency and Stand-by Power Systems

[illegible]

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 5: Emergency and Stand-by Power Systems

[illegible]

37

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 5: Emergency and Stand-by Power Systems

[illegible]

Schedule 5: Emergency and Stand-by Power Systems

Section 4: Testing and Commissioning

Total Carried Forward To Summary

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 5: Emergency and Stand-by Power Systems

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Standby Generators	.....
2	Section 2: Sound Attenuation	.....
3	Section 3: Uninterruptible Power Supply	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 6: Earthing and Lightning Protection

[illegible]

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 6: Earthing and Lightning Protection

Section 2: Lightning Protection

[illegible]

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 6: Earthing and Lightning Protection

Section 3: Testing and Commissioning

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 6: Earthing and Lightning Protection

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Earthing	.....
2	Section 2: Lightning Protection	.....
3	Section 3: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Department of Health
NWDOH/PS/019/11_Electrical Installation
Schedule 7: PC/Provisional Sums and Miscellaneous

[illegible]

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

Schedule 7: PC/Provisional Sums and Miscellaneuos

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: PC/Provisional Sums and Miscellaneuos Work	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11_Electrical Installation

SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT (RAND)
1	Schedule 1: Preliminaries & General	.....
2	Schedule 2: Low Voltage Distribution	.....
3	Schedule 3: Building Services [Electrical]	.....
4	Schedule 4: Street Lighting	.....
5	Schedule 5: Emergency and Stand-by Power Systems	.....
6	Schedule 6: Earthing and Lightning Protection	.....
7	Schedule 7: PC/Provisional Sums and Miscellaneuos	.....
	SUBTOTAL	.....
8	Add 5% Contingency	.....
	SUBTOTAL	.....
9	Add 15% Value Added Tax	.....
Total		.....

SECTION 5 – ELECTRONIC WORKS

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: FIXED, VALUE AND TIME RELATED CHARGES							
1.1	General							
	Allow for complying with all clauses as per tender documentation, including all Special and General conditions of Contract and Labour requirements, and for providing all works and services for which no specific items are listed in the Bills of Quantities.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.2	Site Establishment							
	Site establishment and for providing a site office, tools store, adequate and suitable water, sanitary and first aid services, communication and A4-A3 printing/scanning/faxing facilities.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.3	Supervision and Management							
	Site administration and for attending all inspections and site meetings							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.4	Storage and Insurance							
	Provide for storage of plant, materials and equipment on site including protection thereof and for obtaining and providing all sureties and insurances called for in terms of this contract.							
a	Fixed	Sum	1					
b	Value	Sum	1					
c	Time	Month	4					
1.5	Notices and Fees							
	Allow for co-ordination with other contractors, giving notice to the internet and telephone service providers and paying all required fees. Liaising with Supply Authority for isolation and disconnections, from supply points. Connection and reconnection to supply points.							
a	Fixed	Sum	0					
b	Value	Sum	0					
1.6	Manufacturer's Workshop Drawings							
	Provision of workshop drawings and technical information including data sheets and schematic drawings for approval							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.7	Permits							
	Liaising with Aviation Authority for permits to erect data tower.							
a	Fixed	Sum	0					
b	Value	Sum	0					
1.8	As-Built Information							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Supply five full sets of as-built drawings to show the exact positions of cables, cable joints road crossings, etc. as well as instruction manuals & spare parts catalogues to spec. These as-built drawings must be handed to the Engineer on completion of the contract.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.9	O&M Manuals, Catalogues and Reports							
	Preparation of O & M manuals and re-commissioning reports.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.10	Surveying							
	Surveying and setting out of tower/pole positions and cable routes.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.11	Site De-establishment							
	Site de-establishment and breakdown.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.12	OHS Requirements							
	Safety File including approval, PPE, Safety Harnesses, Site Inductions, Medicals etc.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.13	Training and Handover							
	After successfull final testing and commissioning of complete installation allow for training of end-user personnel and handover complete project to client.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.14	Guarantees							
	Allow for a guarantee for a defects liability period of 12 months against defects in components and installation workmanship.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.15	Samples							
	Allow for selection and presentation of samples to the Engineer. Materials should only be purchased after obtaining approval from the Engineer. Incorrect materials will be replaced with correct materials.							
a	Fixed	Sum	1					
b	Value	Sum	1					
1.16	Existing Materials and Equipment							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 1: Preliminaries & General

Section 1: Fixed and Value Based Charges

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 1: Preliminaries & General

Section 2: Unscheduled Work and Variations

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 1: Preliminaries & General

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Fixed and Value Based Charges	.....
2	Section 2: Unscheduled Work and Variations	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 2: Intercommunication System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: Reticulation for Intercommunication System							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of newtiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of newtiling shall be measured separately.							
c	25 mm Ø PVC.	m	1					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	50					
e	25 mm Ø light duty galvanized steel.	m	2					
f	25 mm Ø PVC flexible conduit.	m	0					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	10					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	24					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	0					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	1					
	Outlet box (with cover) designed to mount intercom sub-station specified for wall mounting.							
e	2-gang galvanized steel electrical box flush wall	No	2					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 2: Intercommunication System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
f	Surface treated steel plate indoor surface wall mount box	No	1					
g	Surface treated steel plate outdoor surface wall mount box	No	1					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
a	76 x 63 mm (P8000) wiring duct c/w cover.	m	1					
	PVC wiring trunking compact mini complete with accessories such as internal angles, stop ends, bends, covers, junction units, etc. but excluding wiring.							
b	25 x 16 mm (YT/2) wiring duct and c/w cover.	m	5					
c	40 x 16 mm (YT/4) wiring duct and c/w cover.	m	5					
1.4	SUNDRIES							
	Blank covers c/w screws;							
a	Blank steel cover plate (White) for 100 mm x 50 mm conduit box.	No	5					
b	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	5					
c	PVC cover for 60 mm round, 25 mm deep, for 25 mm Ø junction box.	No	10					
	Drawwire:							
d	Supply and install 2.0 mm dia. drawwire in electronic cable wireways.	m	50					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 2: Intercommunication System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 2: Intercommunication System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: INTERCOM STATIONS							
	Rates shall include supply, delivery, installation and all accessories such as mounting screws etc.							
	Note: All material shall be SABS approved.							
3.1	ADDRESSABLE INTERCOM MASTER STATION							
	Supply and install an IP multifunctional Video Intercom Master Station employing packet audio technology. The master station is an intelligent video management terminal located in the facility manager's office or concierge station. It controls door locks and communication between door stations and room stations. Equipped with a 7" TFT capacitive touch screen and a built-in camera for easy operation. Connect the master station to an IP network (LAN or WAN) in order to permit hands-free or handset conversation of high sound quality to be made between the master units and intercom stations.							
	Key features shall be;							
	- Glass panel and aluminium alloy bracket - Supports video intercom - Supports live view of door stations and IP cameras - Noise suppression and echo cancellation - Alarm processing function - Supports remote unlocking door function - Supports handsfree mode							
	System Parameters:							
	- Processor:High-Performance Embedded SOC Processor - Operation System: Embedded Windows/MAC/Linux Operation System							
	Audio Parameters:							
	- Audio Input: Built-in Omnidirectional Microphone + External Handset - Audio Output: Built-in Loudspeaker + External Handset							
	Network Parameters:							
	- Ethernet:10/100/1000 Mbps Self-Adaptive Ethernet - Network Protocol: TCP/IP, RTSP							
a	Type INT-A	No	1					
3.2	INDOOR INTERCOM STATION							
	Supply and install an indoor video intercom station with a full colour 7 inch TFT-LED screen monitor, door activation, remote unlocking via client software and panic call functions for door stations monitoring. The video intercom system must employ packet audio technology. Connect the indoor unit to an IP network (LAN or WAN) in order to permit hands-free or handset conversation of high sound quality to be made between the master station and door station connected to the IP Intercom Exchange, or between the master station units.							
	Key features shall be;							
	ONVIF Profile S Compliant 802.3af PoE, Class 0 7" LCD screen doubles as the station's menu screen 6 customizable speed dial buttons Hands-free communication (with available push-to-talk mode) Delayed, Absent, or Scheduled call transfer Monitor individual door stations, or scan monitor groups of stations							
a	Type INT-D	No	24					
3.3	DOOR STATION							
	Total Carried Forward							

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 2: Intercommunication System

Section 3: IP Intercom Stations

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Supply and install weatherproof door Fingerprint Video Intercom Access Control System SIP VoIP Video Door phone at entrance points of building compatible with indoor intercom stations with the following key features; - 1 Relay Output - 1 Four-Wire Interface (1-ch Video Input, 1-ch Audio Input/Output, 1-ch Power Supply, 1-ch Grounding) - Stainless steel body, Vandal & tamper-resistant hardware, - Robust aluminium alloy die-cast body stainless steel face plate - Operating Temperature: -40°F to +158°F/ -40°C to +70°C - Relative Humidity: Up to 95% non-condensing - Protection: IP66, vandal-resistant and water-resistant design - Communication Full duplex 2-way hands-free communication - Call Control Signaling: SIP(RFC compliant), SIP Info(DTMF), RFC 2833(DTMF) - Built-in video and still camera allowing video surveillance and direct BCN output to DVR - Audio Codes: G.711, G.722, G.729 - Image Sensor: OV9712 - Total Pixels: 480P 15fps Min. illumination 0.1lux (720P option) - Field of view: 150° horizontal - Opposite angles: 170° - Lens: 2.75mm - Framerate: 15fps, 30fps, MJPEG, H.264 - Streamline: Dual-stream at different frame rate and bandwidth - ONVIF compliant: Yes - 1 Aux Output, dry contact - Contact Ratings Load: Resistive load - Rated load:0.3 A at 125 VAC; 1 A at 30 VDC - Rated carry current: 1A - Max.switching voltage: 125 VAC,60VDC - Max.switching current: 1A - Network: 10/100 BaseTX Ethernet, RJ45 connectors, Cat5e or better - IP Protocols: IPv4, TCP, UDP, TFTP, RTP, RTCP, DHCP, SIP - LAN Protocols: Power over Ethernet(PoE,802.3af), WLAN(IEEE 802.3af), Network Access Control(IEEE 802.1x),STP(IEEE 802.1d), RSTP(IEEE 802.1d-2004) - Programming: Non-volatile flash memory programming and configuration through Web GUI - Management and Operation: DHCP and static IP, remote automatic software upgrade, centralized monitoring, status LED - Echo cancellation code: G.167/G.168							
a	Type INT-B	No	24					
	Substation with momentary and emergency call button c/w internal cone-type speaker, internal condenser type mic for 1 km transmission range. Unit is to be connected to a 4-wire Substation Interface Unit. Pressing a call button will initiate a call to a pre-programmed master station, enabling a conversation.							
b	Type INT-C	No	1					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 2: Intercommunication System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 2: Intercommunication System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: IP Intercom Stations	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 3: Nurse Call Emergency System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: Nurse Call Silent Emergency call System Installation.							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and secured into place:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	630					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	10					
f	25 mm Ø PVC flexible conduit.	m	1					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	93					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	24					
	Draw boxes complete with covers, screws:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	17					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	14					
1.3	WIRING TRUNKING							
	Pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, covers, junction units, etc. but excluding wiring.							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 3: Nurse Call Emergency System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	76 x 63 mm (P8000) wiring duct c/w cover.	m	0					
	PVC wiring trunking compact mini complete with accessories such as internal angles, stop ends, bends, covers, junction units, etc. but excluding wiring.							
b	25 x 16 mm (YT/2) wiring duct and c/w cover.	m	55					
c	40 x 16 mm (YT/4) wiring duct and c/w cover.	m	25					
1.4	CABLE TRAYS							
	Supply and install medium duty hot dip galvanized welded wire mesh cable tray complete with all accessories including support fixtures, suspension fixtures, fittings, bends, covers, junction units, etc. but excluding wiring.							
a	100 mm wide, 50 mm high cable tray.	m	100					
b	300 mm wide, 50 mm high cable tray.	m	0					
1.5	SUNDRIES							
	Blank covers c/w screws;							
a	Blank steel cover plate (White) for 100 mm x 50 mm conduit box.	No	1					
b	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	1					
c	PVC cover for 60 mm round, 25 mm deep, for 25 mm Ø junction box.	No	10					
	Drawwire:							
d	Supply and install 2.0 mm dia. drawwire in electronic cable wireways.	m	50					

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 3: Nurse Call Emergency System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 3: Nurse Call Emergency System

Section 3: Nurse Call System Equipment and Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: EMERGENCY NURSE CALL SYSTEM EQUIPMENT AND APPLIANCES							
	Rates shall include supply, delivery, installation and all accessories such as mounting screws etc.							
	Note: All material shall be IEC, SABS compliant.							
3.1	PANEL							
	Nurse Call Silent Call Emergency Call System Control Panel complete with power supply, battery charger and standby battery, simple decentralised system, call cancel at decentralised units, mimic panel, buzzer, lightning and surge protection for the complete system in all zones, etc. as specified.							
a	LCD Duty Station Display	No	1					
b	A3 size Digital Display Mimic Floor Plan Panel with LED indicators.	No	6					
c	A3 size Digital Display Mimic Size Plan Panel with LED indicators.	No	1					
3.2	PATIENT HAND UNIT							
	Patient Call hand unit with TV control for bed head Unit as specified .							
a	TV control unit	No	0					
	Patient Call hand-held unit with pear push IPX7 for bed unit as specified.							
b	Pear push unit	No	20					
2.6	RESET/EMERGENCY UNIT							
	Patient Call Nurse Reset call button located in bed head Unit with RJ46 socket for hand unit with TV control.							
a	Type A1	No	3					
	Patient Call Nurse Reset waterproof call button located in bath rooms with clip-in.							
b	Type C1	No	5					
	Emergency Nurse Call button located in bed head units with socket for pear-push hand unit.							
c	Type A3	No	31					
	Emergency Nurse Call button located in bathrooms IP65 rated with pull cord.							
d	Type C2	No	10					
2.7	FITTINGS AND ACCESSORIES							
	Prism shaped over door light complete with cover plate, flush mounted in draw box in wall or on ceiling above door, etc.							
a	Type PR	No	26					
2.8	SUNDRIES							
a	Allowance for any items required for the operation of the complete system but not listed above. Attach a detailed list of such items to qualify your submission with tender.	Sum	1					
2.9	TESTING AND COMMISSIONING							
a	Programming, device/cable labeling, commissioning and testing of the complete Nurse Call Silent Emergency call System installation	Sum	1					
b	Provide a set of As-built drawings and complete manuals in a well arranged durable file. (3-off file)	No	3					
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 3: Nurse Call Emergency System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 3: Nurse Call Emergency System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 3: Nurse Call Emergency System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: Nurse Call System Equipment and Appliances	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 4: CCTV Surveillance System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: IP based Security Surveillance CCTV System							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	800					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	250					
f	25 mm Ø PVC flexible conduit.	m	1					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	48					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	74					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	2					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	14					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 4: CCTV Surveillance System

Section 1: Wireways and Channeling System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 4: CCTV Surveillance System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 2: CABLING							
	Rates shall include supply, delivery, storage, installation, accessories. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABs approved.							
2.1	CABLE							
	The exact length of cable to be verified by the tenderer, and reported back to the Engineer. The tenderer accounts for the correctness of the distance he or she has given in here STP cable.							
2.1.1	ETHERNET CABLE							
	STP cable to connect remote cameras. Crimping charges for both ends of cable for 32 cameras are to be included.							
a	CAT-6 cable	m	2,300					
	Cable Patch cord for Cameras							
b	CAT-6 cable	m	100					
	I/O Box							
c	For CAT-6	No	0					
2.1.2	OPTIC FIBRE							
a	ST unjacketed pigtails 1m.	No	60					
b	ST midcouplers.	No	60					
c	ST LC lead duplex.	No	30					
d	LC-LC fibre patch lead.	No	15					
e	500 pair system side MDF (Krone) with IPM for all trunks	No	15					
g	10G SFP+ Single mode 1310nm 10km LC SFP LC connector	No	8					
h	8 core single-mode optical fiber cable. Crimping charges for both ends of cable to switches to be included.	m	1,000					
2.2	CONNECTORS/PLUGS							
a	RJ11 Cat5e connector.	No	0					
b	RJ45 cat5e connector.	No	0					
c	RJ11 Cat6 connector.	No	0					
d	RJ45 cate6 connector.	No	72					
Total Carried Forward To Summary								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 4: CCTV Surveillance System

Section 3: CCTV Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: CCTV SOFTWARE, EQUIPMENT AND APPLIANCES							
	Rates shall include supply, delivery, installation and all accessories such as mounting screws etc.							
	Note: All material shall be IEC, SABS compliant.							
3.1	CAMERAS							
	IP Indoor Fixed day/night dome camera as per technical specifications mentioned. Note: - Rate includes all the necessary accessories (brackets, stands etc.) reqd. for fixing cameras on wall/ceiling.							
a	Type CC1	No	41					
	IP Indoor PTZ day/night dome camera as per technical specifications mentioned. Note: - Rate includes all the necessary accessories (brackets, stands etc.) reqd. for fixing cameras on wall/ceiling.							
b	Type CC2	No	1				Rate Only	
	IP Outdoor Fixed day/night bullet camera as per technical specifications mentioned. Note: - Rate includes all the necessary accessories (brackets, stands etc.) reqd. for fixing cameras on wall.							
c	Type CC3	No	44					
	IP Outdoor PTZ day/night bullet camera as per technical specifications mentioned. Note: - Rate includes the all necessary accessories (brackets, stands etc.) reqd. for fixing cameras on wall.							
d	Type CC4	No	1					
3.2	VIDEO MANAGEMENT SOFTWARE							
	Video Management Software for total connected cameras as per specifications mentioned. 1. Quote the rate of software without analytic feature. 2. Quoted rate includes the cost of client software for displaying video of cameras. Correct termination of the wire pairs per trigger output at the fire panel to be considered, in order to enable correct line monitoring from the voice evacuation system's side.							
a	Windows/MAC/Apple/Linux/Android based	No	1					
3.3	ANALYTICS SOFTWARE							
	Analytics Software Cost per total connected cameras. (Optional)							
a	Windows/MAC/Apple/Linux/Android based	No	1					
3.4	SWITCHES							
	Stack mountable, fully scalable managed core switch, High-density Gigabit ethernet, Convergence-ready connectivity with Voice-over-IP automatic provisioning, multilayer switching (L2&L3), 24 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, 24 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, RJ45 ports combo i.e. with (2) dedicated stacking ports and external RPS connector, Power over Ethernet (PoE), 96Gbps switching capacity, 71.4 Mpps throughput capacity (64 byte packet size). Future-proof 802.3AT high power support, AC 100-240 V (50-60 Hz) equal or equivalent to Model: 8000-Series							
a	24 Port	No	1					
	24-port 10/100/1000 + 4-port Gigabit Layer-2 POE supported Smart Switch.							
b	12 Port	No	1					
	Manageable layer 2, Fiber-Ethernet Switch for pole-mounting							
c	8-Port	No	4					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 4: CCTV Surveillance System

Section 3: CCTV Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
3.5	NVR MEDIA STORAGE SERVER							
	High-performance, fully-configured rack mountable NVR media storage.							
	- The device shall contain one SSD hard drive of 120 GB (minimum) containing the operating system, and up to 8 additional hard drives of 3 TB each (or more) for simultaneous recording of all connected cameras							
	- Windows OS							
	- The recording hard drives shall be configurable as RAID (for example RAID5 or RAID6) with hot swap drawers in front.							
	- There shall be the possibility to expand recording capacity to external drives, as for example to external iSCSI RAID's or JBOD's.							
	- The device shall be capable to record and manage up to 128 IP cameras.							
	- The device shall be usable either as stand-alone-system, with controls and image viewing on local monitor (via VGA-port), but essentially usable as video server to provide remote viewing clients with live and replay images, or being a satellite of even huge CCTV networks with management from remote locations.							
	- Core 2 Duo 2.8 GHz CPU							
	- The system shall offer advanced per channel selectable compression technology to cover numerous IP cameras or camera servers from different manufacturers, with a choice between MJPEG and H.264, but shall also accept CCTV optimized codecs such as H.264CCTV for frame accurate stream control.							
	- The system shall allow on the fly transcoding of IP camera signals into CCTV optimized codecs such as H.264CCTV for frame accurate stream control.							
	- The system shall also be capable of independently processing 2 streams per camera, to allow simultaneous live viewing and recording of all cameras with no interference between live transmission and recording.							
	- The NVR device shall feature a redundant power supply unit. This is essential. Any PSU failure shall be notified and the hot-standby unit shall take over instantaneously. Exchange of PSU units shall be possible without stopping the NVR (Hot Swap).							
	- The system shall be scalable and expandable to be adapted to future changes in needs.in the event of something.							
a	1U Rack	No	1					
3.6	RECORDER							
a	1U Rack 64 channel NVR recording	No	1					
3.7	HDD							
a	WD 8TB 3.5-inch Surveillance Hard Drive	No	3					
3.8	Desktop CPU							
a	CPU Intel® Core™ i7 CPU or equivalent alternative: AMD Ryzen 3700X or newer complete with latest operating system Windows/Linux/Mac. A CPU capable of 3.8 to ~ 4.5GHz clock speeds for optimal performance. Memory 16 GB RAM and up. Storage SSD (solid state drive) or NVME drive for the main operating system. Separate 1TB 7200 RPM (or larger) HDD or SSD for database storage. Graphics NVIDIA GeForce GTX or RTX series, specifically (2060, 2070, 2080 models or newer) for hardware encoding). AMD Vega 56, AMD Radeon RX 5500, AMD Radeon R9 580. NVIDIA Graphics. Faster recording times, with NVIDIA GeForce RTX cards with the Turing architecture or integrated graphics whenever possible.	No	3					
3.8	MONITORS							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 4: CCTV Surveillance System

Section 3: CCTV Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	Ultra High Definition LED Smart Screen for Video Wall c/w mounting brackets							
	40 inch	No	2					
b	Ultra High Definition LED Smart Screen for Desktop							
	32 inch	No	1					
c	Ultra High Definition LED Smart Screen for Desktop							
	19 inch	No	1					
3.9	UPS							
	Uninterruptible Power Supply unit for pole mounting							
a	1 KVA	No	3					
3.10	TRANSCEIVER							
a	1 Gb transceiver module 100% compatible for Enterasys 1000Base-SX MM 550M SFP. 550m with MMF, up to 1.25Gbps data-rate, 850nm short wavelength VCSEL Laser Transmitter with Duplex LC Connector Interface equivalent to Model: MGBIC-LC01.	No	26					
b	1 Gb 1000Base SX LC SFP Module for pole-mounting	No	6					
3.11	ENCLOSURES							
	IP65 small enclosure for camera power supplies, UPS, switch and fiber components, protection umbrella/shade							
a	450 mm high x 300 mm wide x 150 mm deep	No	4					
	Fiber optic optical distribution frame unit for pole-mounting							
b	8-Port	No	3					

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 4: CCTV Surveillance System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 4: CCTV Surveillance System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: CCTV Software and Equipment	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: IP based Access Control System							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	175					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	40					
f	25 mm Ø PVC flexible conduit.	m	15					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	48					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	32					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	2					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	15					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 5: IP Based Access Control System

Section 1: Wireways and Channeling System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 5: IP Based Access Control System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

Section 3: Access Control System Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: ACCESS CONTROL SYSTEM SOFTWARE, EQUIPMENT AND APPLIANCES							
	Rates shall include supply, delivery, installation and all accessories such as mounting screws etc.							
	Note: All material shall be IEC, SABS compliant.							
3.1	BIOMETRIC READER							
	Fingerprint, smartcard, PIN mixed authentication reader for Entry							
	- High quality optical sensor resolution, durable							
	- IP65							
	- Built-in 125kHz RFID proximity reader							
	- Built-in web and database server							
	- Built-in video and still camera allowing video surveillance and direct BCN output to DVR							
	- 500 ppi Resolution							
	- 50,000 fingerprints/second in 1:N mode							
	- < 1 second authentication time							
	- Multi-lingual support, English voice greeting minimum for successful attempt or for unsuccessful attempt or similar voice greetings.							
	- Backlit LCD display							
	- Windows XP/Vista/windows 7/8/10/mobile, MAC OS, Android, iPhone OS, Linux PC							
	- LAN/WAN, Ethernet (10/100 Base T), GSM/GPRS, USB 0 2.0 (emergency), TCP-IP							
	- RS-232/RS-485 I/O Interface							
	- SSL							
	- Instant notification via SMS or email upon user authentication							
	- Up to 1000 users							
a	Type ACS1	No	4					
	Fingerprint, smartcard, PIN mixed authentication reader for Entry							
	- High quality optical sensor resolution, durable							
	- IP65							
	- Built-in 125kHz RFID proximity reader							
	- Built-in web and database server							
	- 500 ppi Resolution							
	- 50,000 fingerprints/second in 1:N mode							
	- < 1 second authentication time							
	- Multi-lingual support, English voice greeting minimum for successful attempt or for unsuccessful attempt or similar voice greetings.							
	- Backlit LCD display							
	- Windows XP/Vista/windows 7/8/10/mobile, MAC OS, Android, iPhone OS, Linux PC							
	- LAN/WAN, Ethernet (10/100 Base T), GSM/GPRS, USB 0 2.0 (emergency), TCP-IP							
	- RS-232/RS-485 I/O Interface							
	- SSL							
	- Instant notification via SMS or email upon user authentication							
	- Up to 1000 users							
b	Type ACS2	No	20					
3.2	DOOR RELEASE							
a	Breakglass Emergency Door Release button	No	37					
b	Door Lock Release button	No	32					
3.3	ELECTROMAGNETIC LOCK							
	Double Door Magnetic Lock complete with bracket							
	- Power Supply 230V AC Mains Single phase@50 Hz.							
	- Back Up Battery 12V DC, 7 AH, Rechargeable, Maint Free.							
	- 12V / 500mA ; 24V / 250mA (±5%)							
	- Up to 545 kg x2 holding force							
	- Hall Effect Contact : SPDT rated 2A at 24 VDC							
	- Anti-Rust Surface Treatment : Blue Zinc Plating							
	- Operating Temperature : 0~55° C (32~131° F)							
	- Operating Humidity : 0~95% (non condensing)							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

Section 3: Access Control System Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	545 kg x 2 Force	No	7					
	Single Door Magnetic Lock complete with bracket - Power Supply 230V AC Mains Single phase@50 Hz. - Back Up Battery 12V DC, 7 AH, Rechargeable, Maint Free. - 12V / 500mA ; 24V / 250mA (±5%) - Up to 545 kg x2 holding force - Hall Effect Contact : SPDT rated 2A at 24 VDC - Anti-Rust Surface Treatment : Blue Zinc Plating - Operating Temperature : 0~55° C (32~131° F) - Operating Humidity : 0~95% (non condensing)							
b	545 kg Force	No	34					
	230V AC electromagnetic Fire door holder complete supplied and installed.							
c	50kg holding force	No	8					
d	70kg holding force	No	0					
3.4	PORT							
a	RSC-232 converter	No	15					
3.5	DOOR CONTROLLER							
	Networked IP enabled controller with simplified programming and navigation complete with 12/24 VDC battery, and power supply unit. Rate to include programming and LIC. - 100% browser based - Support offline mode • Microprocessor – controlled, single channel loop detector • Power Supply: 24V AC/DC, +/- 10% • Power consumption: Max. 1.5 W • Operating temperature: -20°-+70° C • Humidity: Max. 95% • Loop inductivity: 25 - 800μH • Frequency range: 50 Hz • Sensitivity: 0.01% - 0.65% • Loop read length: Max. 250mt • Relay: 1 presence relay • Housing: Plastic housing • Protection: IP 65							
a	Type L1	No	33					
	Multiple access networked IP enabled controller with simplified programming and navigation complete with 12/24 VDC battery, and power supply unit. Rate to include programming and LIC. - 100% browser based - Support offline mode • Microprocessor – controlled, single channel loop detector • Power Supply: 24V AC/DC, +/- 10% • Power consumption: Max. 1.5 W • Operating temperature: -20°-+70° C • Humidity: Max. 95% • Loop inductivity: 25 - 800μH • Frequency range: 50 Hz • Sensitivity: 0.01% - 0.65% • Loop read length: Max. 250mt • Relay: 1 presence relay • Housing: Plastic housing • Protection: IP 65							
b	Type L2	No	1					
3.6	ENROLLMENT TERMINAL							
	High-performance, maintenance-free optic fingerprint sensor with; - 500 dpi resolution - Windows XP/Vista/windows 7/8/10/mobile, MAC OS, Android, iPhone OS, Linux PC - High speed 1.1/2.0 USB interface							
a	Type ACS3	No	1					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

Section 3: Access Control System Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
3.7	PROXIMITY CARD							
	- Card types 5 (Normal user, Super user, Visitor, Contractor & Maint. - Card attributes 4 (Valid/ void, Trace, Custodian, & Escort) - Lanyard with printed logo/name/card case as per requirement - Front and Back side printed sticker as per requirement.							
a	Card Type 5	No	1,100					
3.8	ACCESS SOFTWARE							
	Time access software with Access Control System							
a	Windows/Apple/Linux/Android based	No	1					
	PC link software with Access Control System							
b	Windows/Apple/Linux/Android based	No	1					
3.9	ACCESS CONTROL SERVER							
	High-performance, fully-configured server. - up to 264 door capacity - Automatic event archiving - System optimization - 16GB of RAM - 2 1GB network ports - Corei7 Quad 4.5GHz CPU - 1TB hard drive storage and 128GB flash drive backup storage							
a	1U Rack	No	1					
3.10	BOOM BARRIER							
	Installation: outdoor • Drive: Electric motor • Power supply: 230+/- 10% VAC, 50 Hz • Finish: - Control unit-Power coated in a suitable colour (to be approved by the consultant). - Boom- Powder coated white then applied with bright red colour reflecting tape strips. • Boom specifications: - Length- 1000mm to 6000mm - Straight, extruded aluminium alloy • Protection: IP 44 • Housing metal: All housing and internal parts will be rust and corrosion free metal or alloys of high strength with suitable epoxy coating as applicable. • Opening and closing time: 1.5 to 6 second • Duty cycle: 100% • Integration: Shall function in integration with proximity reader based access control system • MTBF: 2 million operations							
a	Type B1	No	1					
3.11	LOOP CONTROLLLER							
	• Microprocessor – controlled, single channel loop detector • Power Supply: 24V AC/DC, +/- 10% • Power consumption: Max. 1.5 W • Operating temperature: -20°-+70° C • Humidity: Max. 95% • Loop inductivity: 25 - 800μH • Frequency range: 50 Hz • Sensitivity: 0.01% - 0.65% • Loop read length: Max. 250mt • Relay: 1 presence relay • Housing: Plastic housing • Protection: IP 40							
a	Type L3	No	1					
3.12	TURNSTILE							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

Section 3: Access Control System Software and Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
	Installation: outdoor Double full height 3-arm (120 deg.), stainless steel, electronically controlled in both directions and manual override complete with card reader brackets, battery back-up, LED indicator, fail safe/secure and metal detection; • 24V DC output control panel • Power supply: 230+/- 10% VAC, 50 Hz • Rotor must return to original position after every rotation • Boom specifications: - Recommended Width = 1100mm, Height = 2135mm							
a	Type T1	No	1				Rate Only	
3.13	SWING GATE							
	Installation: outdoor Single full height stainless steel to match turnstile in item 11 above, electronically controlled in one direction and low voltage strike lock complete with card reader brackets, hydraulic door closer and metal detection; • Voltage for strike lock taken from adjacent turnstile power supply • Power supply: 230+/- 10% VAC, 50 Hz							
a	Type S1	No	1				Rate Only	
3.14	MISCELLANEOUS							
a	Allowance for any items required for the operation of the complete system but not listed above INCLUDING masonry work. Attach complete list with tender to qualify your submission.	No	1					
</								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 5: IP Based Access Control System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 5: IP Based Access Control System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: Access Control System Software and Equipment	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and Installation: Wi-fi and Local Area Network (LAN) IT and IP PBX Infrastructure.							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	1,500					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	50					
f	25 mm Ø PVC flexible conduit.	m	1					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	22					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	58					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	2					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	16					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	76 x 63 mm (P8000) wiring duct c/w cover.	m	20					
	PVC wiring trunking compact mini complete with accessories such as internal angles, stop ends, bends, covers, junction units etc. but excluding wiring.							
b	25 x 16 mm (YT/2) wiring duct and c/w cover.	m	100					
c	40 x 16 mm (YT/4) wiring duct and c/w cover.	m	50					
1.4	RACK CABINETS							
	The tenderer to ensure that racks are supplied complete and fully assembled, wired neatly with cable ties, all wires tagged with unique numbers/identifiers.							
a	9U height unit rack swing frame 600mm deep, complete, with : 1No. 2-way fan, 1No. depth reducer -power duct(s) equipped with sufficient mains outlets, -flat shelf(s), -blank panels, -brush panels and entries, -cage nut assemblies, -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No					Rate Only	
b	12U height unit rack swing frame 600mm deep, complete, with : 1No. 2-way fan, 1No. depth reducer -power duct(s) equipped with sufficient mains outlets, -flat shelf(s), -blank panels, -brush panels and entries, -cage nut assemblies, -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No					Rate Only	
c	16U height unit rack swing frame 600mm deep, complete, with : 1No. 2-way fan, 1No. depth reducer -power duct(s) equipped with sufficient mains outlets, -flat shelf(s), -blank panels, -brush panels and entries, -cage nut assemblies, -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No					Rate Only	
d	48U height unit rack 1000mm deep, complete, with : 1No. 4-way fan, 1No. 10-way power rail, 2No. depth reducers -power duct(s) equipped with sufficient mains outlets, -flat shelf(s) for heavy load (3 batteries per one shelf), -blank panels bottom entry, -brush panels and entries, -cage nut assemblies, -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No	2					
d	Waterproof, verminproof, IP65 12U height unit rack swing frame 600mm deep, complete, with : 1No. 2-way fan, 1No. depth reducer -power duct(s) equipped with sufficient mains outlets, -flat shelf(s), -blank panels, -brush panels and entries, -cage nut assemblies, -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No	1					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
1.5	SUSPENDED FLOOR ACCESS							
	The tenderer to ensure measurements shall be taken on site prior to erection of raised floors and shall be supplied complete and fully to be assembled on site.							
a	PVC finished, multi-function antistatic, dust proof, anti skid, anti corrosion 2m x 3m wide cement infilled raised floor -base blank plate, -cable and wire identifiers/markers. -mounting rails,	No	1					
17.2	ACCESS POINT SUPPORT STRUCTURES							
	All wireless access point supports to be supplied complete with poles & cover plates, base plates where applicable etc.							
a	Supply & install 100 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 4 m for direct embedment in ground and complete with accessories including pole earthing and access cover as per specifications	No	2					
1.6	TRENCHES OUTDOOR							
	Excavate, normal backfill compacted to 85% MMDD for 450-600 mm wide x 700-1100 mm deep measured in linear length.							
	Rate shall include lifting finished surfaces such as paving, kerbs, grass etc. and reinstatement to original state or better. Rate shall also be inclusive of re-instatement and compaction of excavated materials.							
	All sleeves shall be laid on a 150 mm thick bedding of sifted river sand as well as a covering of an equal thickness of the same material where required.							
	Trenches shall be excavated to following minimum depths below the finished ground level irrespective of the size of sleeve installed; i) 1000 mm for medium voltage (MV) cables ii) 700 mm for low voltage (LV) cables iii) 900mm for fibre cables							
a	In hand-pickable soil.	m	150					
b	In soft rock.	m	1					
c	In hard rock.	m	1					
d	Supply and installation of sifted sand in trenches.	m³	14					
e	PVC danger warning tape installed 400 mm above cable.	m	150					
17.5	CABLE SLEEVES							
a	Supply and install 50 mm Ø HDPE sleeves (Code Name Kabelflex - Green) or similar including sealing of sleeve ends excluding excavation.	m	80					
a	Supply and install 110 mm Ø HDPE sleeves (Code Name Kabelflex - Green) or similar including sealing of sleeve ends excluding excavation.	m	150					
4.4	INSPECTION PIT							
a	Supply and install in ground round fibre cement chamber, base and concrete coping with a steel lid & mechanical lock 500 mm dia. x 500 mm deep precast handhole.	No	2					
b	Supply and install in ground round fibre cement chamber, base and concrete coping with a steel lid & mechanical lock 1000 mm dia. x 1000 mm deep precast manhole.	No	4					
4.5	SUNDRIES							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 1: Wireways and Channeling System

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 3: IT Equipment and Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: IT EQUIPMENT AND APPLIANCES							
	Rates shall include supply, delivery, installation and all accessories such as mounting screws etc.							
	Note: All material shall be IEC, SABS compliant.							
3.1	SOCKET OUTLETS AND CONNECTORS							
a	RJ11 for power skirting mounting c/w PVC coverplate (White).	No	13					
b	RJ45 wall box outlets c/w PVC coverplate (White).	No	80					
c	RJ45 for power skirting mounting c/w PVC coverplate (White).	No	15					
d	RJ46 for power skirting mounting c/w PVC coverplate (White).	No	0					
e	RJ11+RJ45 Combo for power skirting mounting c/w PVC coverplate (White).	No	3					
f	RJ11+RJ45 Combo wall box outlet c/w PVC coverplate (White).	No	51					
g	RJ11 Cat5e connector.	No	0					
h	RJ45 cat5e connector.	No	0					
i	RJ11 Cat6 connector.	No	106					
j	RJ45 cate6 connector.	No	38					
3.2	PATCH PANEL							
a	24 Port ST multimode fibre optic patch panel with 24 ports populated, 1U.	No	15					
b	Fibre patch panel ST.	No	15					
3.3	TRANSCEIVER							
a	1 Gb transceiver module 100% compatible for Enterasys 1000Base-SX MM 550M SFP. 550m with MMF, up to 1.25Gbps data-rate, 850nm short wavelength VCSEL Laser Transmitter with Duplex LC Connector Interface equivalent to Model: MGBIC-LC01.	No	30					
3.4	SWITCHES AND HUBS							
a	Stack mountable, fully scalable managed switch, Gigabit ethernet, multilayer switching (L2&L3), 48 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, RJ45 ports combo i.e, with (2) dedicated stacking ports and external RPS connector, Power over Ethernet (PoE), 96Gbps switching capacity, 71.4 Mpps throughput capacity (64 byte packet size). Future-proof 802.3AT high power support, AC 100-240 V (50-60 Hz) equal or equivalent to Model: B5G124-48P2	No	1					
b	Stack mountable, scalable, high-performance Gigabit Ethernet switch offering support for IEEE 802.3AT compliant high-power PoE, flexible 10 Gigabit Ethernet options, dynamic IPv4 and IPv6 routing, 24 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, MDI/MDI-X RJ45 4 Combo SFP ports i.e, with (2) high-speed dedicated stacking ports and external RPS connector, Power over Ethernet (PoE), 48Gbps switching capacity, 35.7 Mpps throughput capacity (64 byte packet size). AC 100-240 V (50-60 Hz) equal or equivalent to Model: C2G124-24	No	15					
c	Stack mountable, fully scalable managed core switch, High-density Gigabit ethernet, Convergence-ready connectivity with Voice-over-IP automatic provisioning, multilayer switching (L2&L3), 48 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, 24 x 10/100 (PoE) + 2 x SFP + 2 x 10/100/1000, RJ45 ports combo i.e, with (2) dedicated stacking ports and external RPS connector, Power over Ethernet (PoE), 96Gbps switching capacity, 71.4 Mpps throughput capacity (64 byte packet size). Future-proof 802.3AT high power support, AC 100-240 V (50-60 Hz) equal or equivalent to Model: 8000-Series	No	1					
3.5	IP PBX SYSTEM							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 3: IT Equipment and Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	IP PBX Server	No	1					
b	Media Gateway	No	2					
c	E&M Ports	No	4					
d	Analog CO Trunk ports	No	8					
e	IP Gateway for 240 IP Clients (Hard+Soft+WL IP) & 60 Trunk Channels	No	1					
f	PC Base operator console (PC excluded)	No	1					
g	PC based 4 Port Auto Attendant LIC and 192 Voice Mail LIC	No	1					
3.6	WIRELESS ACCESS POINTS							
a	Dual Radio 11agn 2x2: 2 MIMO implementation for 11n throughput High performance enterprise class AP indoor access point equivalent to Model: WS-AP3705i.	No	27					
b	Dual Radio 11abgn/ac 3x3: 2 MIMO implementation for 11ac & 11n throughput High performance enterprise class AP outdoor access point equivalent to Model: WS-AP3865.	No	2					
3.7	WLAN CONTROLLER							
a	WLAN controller. Manages 16 Access Points, expandable to 48 with 16 AP capacity upgrade (WS-C20XCAPUP16). Requires Reg Domain Key. 1000Base-T (management) equivalent to Model: WS-C25	No	1					
b	WLAN controller capacity upgrade for C25 and V2110 with capability to increase capacity of WLAN controller by 16 Access points, equivalent to Model: WS-APCAP-16	No	1					
3.8	ACCESSORIES							
a	V8 Regulatory Domain Key for Rest of World. Enables WLAN controller and access points with appropriate wireless settings for region., equivalent to Model: WS-CTLREG8P-ROW	No	1					
b	Dedicated Class-I Communication Earthing	No	15					
3.9	RACK-MOUNT UPS							
	Uninterruptible Power Supply unit complete with battery pack for rack mounting							
a	Rack mount smart 2.5 kVA with LCD display UPS, 10-15 minutes run time battery back up.	No	1					
b	Rack mount smart 1.5 kVA with LCD display UPS, 10-15 minutes run time battery back up.	No	15					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

Section 4: Testing and Commissioning

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: TESTING AND COMMISSIONING							
4.1	INSPECTION							
a	Inspect complete installation for each building and include in consolidated report with pictures; Work to involve; Checking, measuring and confirming; - Network switches. - UTP cable type for circuits to outlet points. - Optic Fibre Cable type.. NB: Installation and remedial work related to the problems stated above shall <u>ONLY</u> be executed upon engineer's instruction.	No	12					
b	Pre-installation duct testing (Ball bearing test). Check that all existing sleeves for electronic services are continuous. Issue a report of findings to the Engineer in your report indicate all blocked locations.	m	100					
4.2	PRE-TESTS							
	Conduct the following tests (Include test results and findings in your consolidated report prior to executing any installation or remedial works); i. Optical fiber test (locating fault with OTDR) per core. ii. Relay section test-Power And Light source Testing. iii. And Verification (Standard bi-directional). iv. Floor and wall resistance. v. Relay section test - Polarization Model Dispersion vi. Relay section test - Chromatic Dispersion Test. vii. Functional performance. NB: The tests mentioned above shall <u>ONLY</u> be conducted in the presence of the engineer or his representative to remain valid.							
a	Core Switch	No.	1					
b	Network/Access Switches including patch panels	No.	12					
c	Optic Fire Cable	No.	1					
d	Data points	No.	1					
e	Wireless Access Points	No.	1					
4.3	SYSTEM CONFIGURATION AND SET UP							
a	Configuring and setting up IT infrastructure and Wi-Fi installation.	No	1					
4.4	POST INSTALLATION TESTING AND COMMISSIONING							
a	Device/cable labeling, commissioning and testing of the complete system installation	Sum	1					
Total Carried Forward To Summary								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 6: Wi-fi, LAN IT and IP PBX Infrastructure

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: IT Equipment and Appliances	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 7: Queue Management System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: Queue Management System							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	10					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	2					
f	25 mm Ø PVC flexible conduit.	m	1					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	1					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	1					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	1					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	1					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 7: Queue Management System

Section 1: Wireways and Channeling System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 7: Queue Managment System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 7: Queue Management System

Section 3: Queue Management System Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: QUEUE MANAGEMENT SYSTEM EQUIPMENT							
	Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	The system shall be a Web Based Solutions System monitoring, reporting, maintenance and control can be performed remotely via standard web browser. No software installation is needed. Future software upgrade is easier as it only involves the main system controller. Web interface also offers ease of use and shorter learning time.							
	Note: All material shall be IEC, SABS compliant.							
3.1	TOKEN DISPENSING STATION							
	Supply and install a floor standing token dispenser with the following key features;							
	- high-speed thermal printer.							
	- 17 inch touch screen LCD screen doubling as the station's menu screen							
	- Voice system; Controlling host and network version for Q2015 net Queue Management software							
	- Host PC configuration: Motherboard:							
	- CPU: Intel Dual Core 1.8GHz							
	- Memory: DDR3 2G							
	- settings (time setting, flashing time of the displays etc.,)							
	- Wireless and Wired communication							
	- Win7/Win10 OS							
	- Can support multilanguage							
	- With built-in speakers, audio and amplifier							
	- Can support 1-64 services							
a	Ticket Dispensing Unit	No	1					
3.2	CALL CONTROLLER							
	Supply and install a handheld call controller complete with power supply and with the following key features;							
	- Keyboard							
	- LCD screen doubles as the station's menu screen							
	- Hands-free or handset communication (with available push-to-talk mode)							
a	Call Controller Unit	No	5					
3.3	DISPLAYS							
	Supply and install waiting area 55 inch LED display monitor as main display with a built-in announcement speaker.							
a	Main Display/Announcement unit	No	1					
	Supply and install wired counter no larger 350 x 120 x 45 mm LED display unit with the following features;							
	- Red colour Dot Matrix LED display							
	- 8 Digits bright light tube							
	- 4 digits display ticket number							
	- 2 digits display for counter number							
b	Counter Display	No	3					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 7: Queue Management System

Section 3: Queue Management System Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
3.4	PROCESSOR SERVER							
	High-performance, fully-configured server with Queue Management System Software and SQL database.							
	- Automatic event archiving							
	- System optimization							
	- 16GB of RAM							
	- 2 1GB network ports							
	- Corei7 Quad 4.5GHz CPU							
	- 1TB hard drive storage and 128GB flash drive backup storage							
a	Server	No	1					
3.4	MEDIA PLAYER BOX							
	High-performance, media player box complete with software							
	- Windows X86							
	- Video output for 1024 x 768/75Hz resolution							
	- Supports video formats: MPEG-1, MPEG-2, MO@HL, MPEG-4, ASP@L5, etc							
	- Image formats: JPG, BMP, static GIF, and provides a 10/100MB adaptive fast ethernet interface.							
	- Storage media: standard 2G memory card							
	- Work with TV display to show main queuing states with video, movies or live TV show.							
	- with HDMI and VGA							
	- 1TB hard drive storage and 128GB flash drive backup storage							
a	Media player	No	1					
3.5	SPEAKERS							
	Supply and install Supply and install high quality sound cone speaker, Certified BS - EN54-24							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 7: Queue Management System

Section 3: Queue Management System Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	Type SP-T5 The loudspeaker shall be of in-ceiling type design and shall consist of two parts, comprising of an inner mesh grille and chassis with an integral loudspeaker with no visible fixings and a discreet outer bezel of only 5 mm. The second part shall be a steel constructed fire dome for the prevention of smoke or fire spreading through ceiling voids in an emergency situation. Installation shall be via pre-mounted springs allowing it to be mounted in a ceiling with a thickness of between 5 – 25 mm (0.2" – 0.98"). A template shall be provided to assist in cutting mounting holes. The loudspeaker shall incorporate a single 12 cm (5") full range cone-type transducer with a smooth frequency response of 200 Hz to 20 kHz with a wide-angle dispersion. The loudspeaker shall produce a Sound Pressure Level (SPL) of 95 dB (measured between 500 Hz – 5 kHz of pink noise) on axis at 1 meter with a power input of 1 watt and 81dB (measured between 100Hz – 10kHz of pink noise) on axis at 4 meters with a power input of 1 watt. The loudspeaker shall be capable of producing 6 watts (for 100 V Line) and 3 watts (for 70 V Line) of power. The loudspeaker shall be fitted with a factory mounted transformer with easy selectable power tapping's of 6 W, 3 W, 1.5 W and 0.8 W when using 100 V Line and 3 W, 1.5 W, 0.8 W and 0.4 W when using 70 V Line. Connection shall be made possible via two steatite two pole connectors with separate earth terminal and shall be capable of handling solid cable: 0.8 – 6 mm² (AWG 18 – 10). The ceiling mount loudspeaker shall incorporate suitable anchoring points, as an additional precautionary measure, allowing an attachment of a safety wire to avoid displacement. The dimensions shall be $\phi 180 \times 95.6$ mm (d) (7.09" x 3.76") weighing 860 g (1.9 lb.) The finish of the loudspeaker shall be: Baffle: steel plate, white (RAL 9016 equivalent). Grille: Steel net, white (RAL 9016 equivalent). Fire dome: steel plate, painted black. The ceiling mount loudspeaker shall be certified according to the following standards: European Standard EN 54-24: 2008, International Standard ISO 7240-24: 2010 and shall comply with British Standard BS-5839-8: 2008. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: PC-1865BS F00	No	74					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 7: Queue Management System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 7: Queue Management System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: Queue Management System Equipment	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 8: Public Announcement System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: Reticulation for Public Announcement System							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder maybe additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	1					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	50					
e	25 mm Ø light duty galvanized steel.	m	2					
f	25 mm Ø PVC flexible conduit.	m	0					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	10					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	24					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	0					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	1					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 8: Public Announcement System

Section 1: Wireways and Channeling System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 8: Public Announcement System

[illegible]

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 8: Public Announcement System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 8: Public Announcement System

Section 3: PA Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	Type SP-T5 The loudspeaker shall be of in-ceiling type design and shall consist of two parts, comprising of an inner mesh grille and chassis with an integral loudspeaker with no visible fixings and a discreet outer bezel of only 5 mm. The second part shall be a steel constructed fire dome for the prevention of smoke or fire spreading through ceiling voids in an emergency situation. Installation shall be via pre-mounted springs allowing it to be mounted in a ceiling with a thickness of between 5 – 25 mm (0.2" – 0.98"). A template shall be provided to assist in cutting mounting holes. The loudspeaker shall incorporate a single 12 cm (5") full range cone-type transducer with a smooth frequency response of 200 Hz to 20 kHz with a wide-angle dispersion. The loudspeaker shall produce a Sound Pressure Level (SPL) of 95 dB (measured between 500 Hz – 5 kHz of pink noise) on axis at 1 meter with a power input of 1 watt and 81dB (measured between 100Hz – 10kHz of pink noise) on axis at 4 meters with a power input of 1 watt. The loudspeaker shall be capable of producing 6 watts (for 100 V Line) and 3 watts (for 70 V Line) of power. The loudspeaker shall be fitted with a factory mounted transformer with easy selectable power tapping's of 6 W, 3 W, 1.5 W and 0.8 W when using 100 V Line and 3 W, 1.5 W, 0.8 W and 0.4 W when using 70 V Line. Connection shall be made possible via two steatite two pole connectors with separate earth terminal and shall be capable of handling solid cable: 0.8 – 6 mm² (AWG 18 – 10). The ceiling mount loudspeaker shall incorporate suitable anchoring points, as an additional precautionary measure, allowing an attachment of a safety wire to avoid displacement. The dimensions shall be $\phi 180 \times 95.6$ mm (d) (7.09" x 3.76") weighing 860 g (1.9 lb.) The finish of the loudspeaker shall be: Baffle: steel plate, white (RAL 9016 equivalent). Grille: Steel net, white (RAL 9016 equivalent). Fire dome: steel plate, painted black. The ceiling mount loudspeaker shall be certified according to the following standards: European Standard EN 54-24: 2008, International Standard ISO 7240-24: 2010 and shall comply with British Standard BS-5839-8: 2008. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: PC-1865BS F00	No	74					
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 8: Public Announcement System

Section 3: PA Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
b	Type SP-T6 The speaker shall be a 16cm (6"") cone-type speaker suitable for wall mounting, thermal fuse with a blowing temperature of 84°C, internal cables with insulation. Cable connection shall be by means of a screw connector (2× fire-resistant terminal blocks made of steatite), with bridging allowable. The speaker shall be certified according to EN 54-24: 2008 with CPD number 0359-CPD-0103, certified according to ISO 7240-24: 2010, complies with BS 5839-8: 2008 14.8. The speaker shall include a transformer having multiple taps (0.8W, 1.5W, 3W, 6W) at 100V adjustable. The output sound pressure level at a distance of 1m with a 1W input level applied shall be 94 dB SPL (average 0.5 to 5 KHz). The speaker shall have a frequency response of 150 – 20,000Hz (-20dB). Ingress Protection, IP21C. The speaker Grill shall be constructed of steel and cabinet shall be constructed of wood. The speaker shall be available in white (RAL9011) or black (RAL9010) color. The unit shall have dimensions of 250 (W) ×190 (H) × 108 (D) mm, and a weight of 1.7 kg. Fire Rated Cable can be directly connected to the speaker via 20mm cable glands drilled directly into the wooden cabinet. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: BS-678BSB/678BSW	No	2					
c	Type SP-T4 The speaker shall be a weatherproof horn speaker suitable for both indoor and outdoor applications. It is also designed for use in voice evacuation systems. Rated input shall be 15 W. Input impedance shall be easily adjustable with rotary switch on the rear side of the speaker. The speaker shall include a transformer having multiple taps (3 W, 5 W, 10 W, 15 W at 100 V and 1.5 W, 2.5 W, 5 W, 7.5 W, 15 W at 70 V) adjustable. The sensitivity at a distance of 1m with a 1W input level applied shall be 109 dB, high efficiency. The speaker shall have a frequency response of 315 – 12.5 kHz. Horizontal and vertical dispersion at -6 dB below the on-axis reference at 2 kHz shall be 85° (H) x 115° (V). The speaker shall have an operating temperature of -20°C to +55°C. The speaker diaphragms shall be employing special heat-resistant fibres impregnated with phenolic resin to prevent the diaphragm from absorbing moisture and changing shape. The aluminium foil bobbin shall have excellent heat dissipation properties to resist high power inputs and ensure high speaker durability. The speaker shall have enhances excellent speech clarity. The mounting brackets and all external hardware (screws, bolts) shall be made of stainless steel. The speaker shall have excellent weatherproofing and corrosion resistance. The speaker shall have an IEC 60529 / EN 60529 dust tight and jet-water proof rating of IP65c. The external horn flare shall be made of aluminium, which shall have more shock resistant than resin. A fire-resistant steatite screw terminal block with thermal fuse with a blowing temperature of 84°C allows secure cable connections and bridge wiring. Internal cables shall be flame-resistant insulation. Fire Rated Cable can be directly connected to the speaker cabinet via 20 mm cable gland. The switch is also equipped with an OFF position to prevent speaker damage resulting from incorrect impedance setting. The speaker shall be certified according to EN 54-24 with CPD Number 0359-CPD-0109, certified according to ISO 7240-24 and in compliance with the British Standard BS 5839-8 Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: SC-615BS	No	9					
3.3	REMOTE MICROPHONE							
	Supply and install Remote Microphone.							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 8: Public Announcement System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 8: Public Announcement System

Section 3: PA Equipment

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	Type 1 PAS Fire station with easy-to-use hand-held microphone with talk button, 3 programmable buttons and a button with folding safety cover with emergency functions, expandable to Max 55 keys. Very easy to use with preprogrammed features, including: - Entering emergency mode, with or without a pre-programmed emergency sequence with stored messages through the covered alarm key - Manual announcements are made into selectable areas, call - Select background music - Activation of preprogrammed transfers of any sources in any areas - Display specific error messages - Alarm acknowledge and reset - Start, pause, skip and stop alarm sequences in specific sections of the fire - Lamp test Ready light, General failure indicator and VU-meter. Built-in speaker to listen to the chime programmable before and/or after the broadcast. Adjustable microphone and speaker levels. Monitoring of control and audio paths, as well as the preamplifier according to EN 60849, EN54-16 and ISO 7240-16. In the hand-held microphone of built-in beeper to monitor the MIC capsule including the acoustic-electric conversion. As an additional safety feature can the CPU at failure of the intercom is switched off and announcements in all areas be discontinued. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: RM-200SF D00	No	1					
	Supply and install Fireman's Microphone extension.							
b	Type 2 PAS Keyboard extension for fire station with 20 freely programmable keys. A green and a high-resolution LED per button to the appropriate display of various functions or conditions allowing the free programming of each button according to the features of the voice alarm system. Complete with wall mount. The keyboard extension is certified by a notified body (notified) according to EN 54-16 along with the voice alarm system. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: RM-320F D00	No	1					
3.5	POWER SUPPLY MANAGER							
	Supply and install emergency power supply equipment for PA system DC power supply to all system components Combination of built-in power source unit with a high-performance charger Automatic switch to auxiliary battery power if the AC power supply is down. Equivalent or similar approved EOM product: EOM Name: TOA Electronics Model No.: VX-3150DS HCED00							
a	EPS-1 220 - 230 V AC, 50 / 60 Hz	No	1					
b	12 Volt 65 A/H Battery	No	2					
Total Carried Forward To Summary								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 8: Public Announcement System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 8: Public Announcement System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: PA Equipment	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 9: Fire Detection Alarm System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: WIREWAYS AND CHANNELING SYSTEM							
	Complete Supply and installation: Nurse Call Silent Emergency call System Installation.							
	General statement on rates: Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
1.1	CONDUITS							
	In addition to the general statement on rates above, rates for conduit shall also include all accessories such as couplers, adapters, bends, round elbows, tees, end caps, saddles, fixers, adhesives, etc., excepting junction/outlet boxes. Where chasing of brickwork or concrete media is required the rates shall be inclusive. Where drilling through brickwork and/or concrete media of up to 300 mm deep for 10 - 25 mm Ø conduit is required, the rate shall be inclusive.							
	Conduit laid prior to pouring concrete:							
a	25 mm Ø PVC.	m	1					
	Conduit chased into concrete with the use of an angle grinder and surface to be made good with matching plaster and/or concrete:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
b	25 mm Ø PVC.	m	1					
	Conduit chased into brick work and surface made good with matching plaster and/or tiling material:							
	Note: Where the contractor has removed tiles. Matching tiles shall be sourced or as per Architect's requirements. Cost of new tiling shall be measured separately.							
c	25 mm Ø PVC.	m	70					
	Conduit surface mount in ceiling void or applicable area:							
d	25 mm Ø PVC.	m	1					
e	25 mm Ø light duty galvanized steel.	m	20					
f	25 mm Ø PVC flexible conduit.	m	1					
1.2	CONDUIT BOXES							
	Outlet boxes without covers:							
a	PVC 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	10					
b	Galvanized steel 60 mm round, 25 mm deep, for 25 mm Ø conduit.	No	15					
	Draw boxes complete with covers:							
c	100 mm x 100 mm x 50 mm pressed steel.	No	1					
d	Surface mount extension box, 100 mm x 100 mm x 50 mm galv steel painted white.	No	2					
1.3	WIRING TRUNKING							
	Supply and install pregalvanized steel wiring trunking complete with accessories such as support fixtures, suspension fixtures, fittings, bends, stop ends, covers, junction units, internal angles, etc. but excluding wiring.							
Total Carried Forward								

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 9: Fire Detection Alarm System

Section 1: Wireways and Channeling System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
a	76 x 63 mm (P8000) wiring duct c/w cover.	m	0					
	PVC wiring trunking compact mini complete with accessories such as internal angles, stop ends, bends, covers, junction units, etc. but excluding wiring.							
b	25 x 16 mm (YT/2) wiring duct and c/w cover.	m	60					
c	40 x 16 mm (YT/4) wiring duct and c/w cover.	m	30					
1.4	CABLE TRAYS							
	Supply and install medium duty hot dip galvanized welded wire mesh cable tray complete with all accessories including bends, junction units, suspension fixtures etc:							
a	100 mm wide, 50 mm high cable tray.	m	40					
b	300 mm wide, 50 mm high cable tray.	m	0					
1.5	SUNDRIES							
a	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	1					
b	Supply and install 2.0 mm dia. drawwire in electronic cable wireways.	m	50					

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 9: Fire Detection Alarm System

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 9: Fire Detection Alarm System

Section 3: Fire Alarm Equipment and Appliances

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 3: FIRE ALARM EQUIPMENT AND APPLIANCES							
	Rates shall include supply, delivery, storage, installation. Installation to be in accordance with specifications, SANS standards for complete project up to the satisfaction of the Engineer(s).							
	Note: Some items measured hereunder are additional to items measured in schedule of materials installed by Electrical Subcontractor and therefore shall be thoroughly coordinated and checked.							
	Note: All material shall be SABS approved.							
2.6	FIRE ALARM PANEL							
	Service existing conventional fire alarm control panel as follows;							
	- Test battery charger, - Change standby battery, - Check switching/mini switching monitor units, sounder control loop, loop power sounder, software, panels, printer etc							
a	Conventional Fire Panel c/w network cards	No	14					
	Supply and install analogue conventional fire alarm control panel at new kitchen. NB: Pump house detection devices shall be looped to this panel.							
b	Conventional 2 Loop/Zone Fire Panel c/w network cards	No	1					
2.5	FIELD DEVICES AND ACCESSORIES							
	Supply and install Addressable break-glass type fire alarm contact c/w resettable element, hinged cover and breakable seal as specified fixed to draw box provided in block work:							
a	Surface or recessed mounted type.	No	15					
	Service, remove and re-install addressable break-glass type fire alarm contact c/w resettable element, hinged cover and breakable seal as specified fixed to draw box provided in block work:							
b	Surface or recessed mounted type.	No	30					
	Addressable optical detector and addressable heat detectors shall be complete with bases, sprague connection and cable connection.							
	Units surface mounted on concrete slabs and steel surfaces, on ceiling tiles and plastered ceiling:							
b	Heat detector.	No	10					
c	Optical smoke detector.	No	30					
d	Ionization chamber smoke detector.	No	4					
	Service, remove and re-install addressable optical detector and addressable heat detectors shall be complete with bases, sprague connection and cable connection.							
	Units surface mounted on concrete slabs and steel surfaces, on ceiling tiles and plastered ceiling:							
e	Heat detector.	No	23					
f	Optical smoke detector.	No	60					
g	Ionization chamber smoke detector.	No	1					
	Supply and intall alarm sounder/flasher combo:							
Total Carried Forward								

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 9: Fire Detection Alarm System

Section 3: Fire Alarm Equipment and Appliances

North West Department of Health
NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure
Schedule 9: Fire Detection Alarm System

Section 4: Testing and Commissioning

[illegible]

COMPLETION SEKHING COMMUNITY HEALTH CENTRE

North West Department of Health

NWDOH/PS/019/11 Integrated Security System and ICT Infrastructure

Schedule 9: Fire Detection Alarm System

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Wireways and Channeling System	.....
2	Section 2: Cabling	.....
3	Section 3: Fire Alarm Equipment and Appliances	.....
4	Section 4: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

COMPLETION OF SEKHING COMMUNITY HEALTH CENTRE, NORTH WEST PROVINCE

FINAL SUMMARY

Sec	Description	Carried From	Amount
1	Preliminaries and General	57	R
2	Builders Work	152	R
3	Provisional Sums	156	R
4	Electrical Works	Sec 4 Page 47	R
5	Eletronic Works	Sec 5 Page 73	R
Sub-Total			R
Add: Contingency Amount			
Allow for 10% (Ten Percent) for contingency provision to be used as directed by the Client or Project Manager or be deducted in whole.			
Sub-Total			R
Add: Value Added Tax (15%)			R
TOTAL CARRIED FORWARD TO FORM OF OFFER			R