



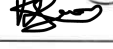



	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	5	
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		Review Date	March 2026			

PLANT AREA: Matla Power Station			
TITLE: Simulator Building Upgrade			
REF: MEA-06773	Reference Rev No:1	MULTIDISCIPLINARY: No	Plant Level: All
COMPILED BY	Name: Kash Sohawan Systems Engineer/End User	Signature: 	Date: 10/07/2023
COMPILED BY	Name: Bonginkosi Mathe Senior Engineer	Signature: 	Date: 10/07/2023
APPROVED	Name: Gavin Phelelo Line Manager	Signature: 	Date: 10/07/2023
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature: 	Date: 2023/07/11
REVIEWED	Name: Johan Lourens Quality Department	Signature: 	Date: 2023/07/12
REVIEWED	Name: Shareen Ramaboea Environmental Department	Signature: 	Date: 17.07.2023

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NB: Do not tamper with the template.

GENERAL

- Data books, reviews, reports and diagrams/drawings shall be submitted to Engineering after the completion of the work. Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement.

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.1	Safety	<ul style="list-style-type: none"> • All work is to be done in accordance with Matla plant procedures and safety regulations. (GGR 0992). • Matla power station induction must be done before any work commences. • Permit to work must be in place before any work commences. • Worker's register must be completed, and daily risk assessment conducted before any work commences. 	Eskom to witness.	Contractor
1.2	Environmental Management.	<ul style="list-style-type: none"> • All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental AUTHORISATION before commencement of work. • The contractor shall comply with all applicable legal and other requirements. 	Eskom to witness.	Contractor

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		<ul style="list-style-type: none"> The polluter pays principle will be applied. The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer: OMOP 4090 and 4402). The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C: OMOP 4402) of designated area. EMS file based on ISO14001 will be required. 		
1.3	Quality Management	<ul style="list-style-type: none"> The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work. Contractors/executioner to adhere to QM 58 and OMOP4497 requirements Number of NCR issued can affect your next tendering process. The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA. No procuring of outage items without the approval of scopes by quality All outage scopes creep and scopes addition should be approved by quality No contractor should be in the possession of scopes for execution without the scopes approved by quality 	Hold point	Contractor

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		<ul style="list-style-type: none"> The contractor is subjected to quality auditing at any point in time during execution of scope 		
1.4	Inputs from other departments			
1.5	Commissioning reference			

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SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2.0	This scope provides the specifications for the civil, HVAC, lighting and sound system requirements for the upgrade of the Simulator Building.		
2.1	Civil Upgrade The existing Simulator Building is to be converted to an auditorium, with the layout being found below in Figure 1. Alongside, the requirements for this upgrade can be found, inclusive of the ceilings, dry wall, tiling, painting and furniture requirements.	Civil Upgrade Requirements 1. Dry wall supply and installation is required for sound proofing the auditorium. 15,00 m (width) x 11, 00 m (length) x 3,80 m (height). 2. The existing double door is to be removed, bricked up and plastered over. A new door is to be supplied and installed further down as per Figure 1, below.	Hold Engineer

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		<ol style="list-style-type: none"> 3. Supply and install double shopfront door at existing entrance. 4. Backfill existing cable trenches with concrete. 5. Prepare and cast elevations for auditorium at an appropriate slope. 6. Supply and install replacement suspended ceiling boards for the 15,00 m x 11, 00 m of the auditorium. 7. Prepare walls for painting. Supply and paint walls in Pantone 8004C, approximate area of 190 m². 8. Prepare and tile floor with Susana beige ceramic floor tiles (400, 00 mm x 400, 00 mm), approximate area to tile 170 m². 		
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2.2	HVAC Upgrade The HVAC upgrades for the auditorium consists of the installation of an air conditioning system consisting of packaged units, ducting, diffusers and all accessories as per Eskom requirements and SANS for air conditioning systems: The appointed service provide shall take the provided concept into considerations and develop a detailed design to suit. The scope of work is inclusive of the following namely: The engineering, quality control, inspections, plant and material selection, preparation of installation drawings, testing, balancing, commissioning and	HVAC Upgrade Requirements HVAC <ul style="list-style-type: none"> • 2 x Dx Packaged Unit (48 000 Btu/h each) • Inverter type • Utilising Ozone Friendly gas • Ducting (Insulated and cladded) • Sound Attenuators • Diffusers (Supply and Return) • Fire Dampers • Balancing Dampers • Electrical Motor Centre (MCC) • Network Control Panel (NCP) • Interface to fire detection (if available) 	Hold	Contractor
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	preparation of operating and maintenance manuals, is to be managed and executed by the Contractor in a systematic manner as follows:	<ul style="list-style-type: none"> • Plinths • Wall penetrations 		
	<ol style="list-style-type: none"> a) Detail Design b) Plant and material selection c) Installation drawings d) Testing, balancing and commissioning Documentation e) As built drawings f) Operating Instruction and Maintenance Manuals; and g) Inspection Record Cards/Checklists 			
	Concept			

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	<ul style="list-style-type: none"> The packaged units shall be placed on plinths outside the simulator room. The ducts from the packaged units, supply and return up to the wall on the building shall be insulated and cladded. Fire dampers on supply and return air ducts shall be installed on the walls. Sound attenuators shall be installed external of the building to reduce noise (Noise Criteria NC 35), these shall also be insulated and cladded. The duct inside the building shall be externally insulated to reduce noise and prevent condensations. Flexible connections shall be used between the ducts and the diffusers. Return air grilles shall be installed inside to return the air back to the packaged units. 			
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	<p>Fresh air entry point into the return air duct with balancing damper and grill shall be installed. A set of filter in a filter box arrangement shall be designed to filter both fresh air and return air (MERV 9) prior to returning the packaged units. Magnehelic gauges to be installed on across the filter to record filter conditions. Filter status to be also recorded on NCP. Ducting to be sized to minimize noise inside the space, the size of ducting shall be dependent on the proposed packaged units.</p> <ul style="list-style-type: none"> An electrical panel (MCC) shall be installed for powering these units. Final position of this 			
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	<p>panel shall be decided on site in conjunction with the Engineer.</p> <ul style="list-style-type: none"> A network control panel (NCP) shall be installed for operating, controlling, monitoring, alarming, scheduling and trending the operation of these units. Final position of this panel shall be decided on site in conjunction with the Engineer. <p>Design Criteria</p> <ul style="list-style-type: none"> Design Temp (Max/Min) = 26/22 °C Relative Humidity = Uncontrolled but monitored Heating = Yes Minimum Particle Filtration Efficiency (%) = MERV 9. 			
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	<ul style="list-style-type: none"> • Pressurization = 2 ACH • Noise Criteria = 35 dBA • Redundancy = No <p>Approvals</p> <ul style="list-style-type: none"> • The Contractor shall submit all designs to the Eskom Engineer for approval prior to procurement of equipment. The schematic provided is for tendering purposes. <p>Drawings/Documents</p> <p>The contractor shall submit the following minimum documents and/or drawings for the system</p>			
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	<ul style="list-style-type: none"> • Mechanical layout drawings (construction and as built) • Design report including heat loads, duct pressure drop calculations, acoustic calculations. • Commissioning procedure and schedule and commissioning data • Control philosophy • Air flow schematic • Electrical drawings including cable schedule and load list • Control and Instrumentation drawings including, but not limited to alarm schedule, drive and actuator schedule, instrument 			
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	<p>schedule, NCP cable schedule, virtual signal list.</p> <ul style="list-style-type: none"> Operating and maintenance manuals. <p>Minimum Applicable Standards</p> <ul style="list-style-type: none"> CIBSE Commissioning Code A: Air Distribution Systems CIBSE Commissioning Code C: Automatic Controls CIBSE Commissioning Code R: Refrigeration ISO 9000: Quality Management Systems OHS ACT: Occupational Health and Safety Act 85 of 1993 SANS 10400: The Application of the National Building Regulations 			
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	<ul style="list-style-type: none"> • SANS 10103: The measurement and rating of environmental noise with respect to annoyance and to speech communication • SANS 10142-1: The wiring of premises Part 1: Low-voltage installations • SANS 10147: Refrigerating Systems including plants associated with air-conditioning Systems • SANS 10173: The installation, testing, and balancing of air-conditioning duct work • SANS 193: Fire dampers • SANS 1238: Air-conditioning ductwork • SANS 1287-1: Ventilation brattices and ducting Part 1: Flexible ducting 			
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	<ul style="list-style-type: none"> • SANS 1287-2: Ventilation brattices and ducting Part 2: Brattices, unsupported • SANS 1424: Filters for use in air-conditioning and general ventilation • SANS 10139: Fire detection and alarm systems for buildings – System design, installation and servicing • 240-70164623 : Design Guideline for HVAC in the Eskom Coal Fired Power Station • 240-102547991: Eskom General Technical Specification for HVAC Systems • 240-49910707: Detail Design Report Template • 240-109607332: Eskom Plant Labelling Abbreviation Standard • 240-86973501: Engineering drawing Standard 			
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	<ul style="list-style-type: none"> • 240-56355843: Pressure Measurement Systems Installation • 240-56355888: Temperature Measurement Systems Installation • 240-56356411: Fire Barrier Seals for Electrical Cable Installations • 240-56355466: Alarm Management System Guideline • 240-56355728: Human Machine Interface Design Requirements Standard • 240-56227443: Requirements for Control and Power Cables for Power Stations Standard • 240-56356396: Earthing and Lightning Protection Standard 			
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	<ul style="list-style-type: none"> 240-56227516: LV Switchgear and Control Gear Assemblies and Associated Equipment for Voltage up to and Including 1000V AC and 1500V Standard 			
2.3	<p>Electrical Upgrade</p> <p>The electrical upgrades for the auditorium will consist of lighting upgrades and the installation of plug points. The specifications of these can be found alongside.</p> <p>NOTE: All electrical work to be handed over to Eskom with a COC</p>	<p>Electrical Upgrade Requirements</p> <p>Lighting:</p> <ul style="list-style-type: none"> 1200, 00 mm x 600, 00 mm recess lights x 22 Dimmable side lights x 6 Light switches x 2 <p>Plug Points</p> <ul style="list-style-type: none"> Plug points located at front of auditorium x 2 	Hold	Contractor

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2.4	Sound System The requirements for the sound system supply and installation can be found alongside.	Sound System Requirements <ul style="list-style-type: none"> • AV Controller • 6 x Wall mounted speakers and brackets • 1 x Stage PA Speaker • 1 x 12 Channel Mixer • 6 x Ceiling Intercom System • 1 x Amplifier • 2 x Cordless Handheld Mics • 2 x Cordless Lapel Mics • Motorised Screen (3m) and Projector Setup and installed 	Hold	Contractor
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2.5	Furniture A combination of fixed and moveable chairs will be required for supply and installation in the new auditorium, the requirements for which can be found alongside.	Furniture Requirements Fixed Furniture: <ul style="list-style-type: none"> • 100 x fixed auditorium chairs Moveable Furniture <ul style="list-style-type: none"> • 20 x moveable auditorium chairs • 4 x curved moveable tables as per Figure 1 below Stage A stage is to be constructed depending on the space availability upon completion of the project. Designs and layouts are to be submitted to the project leader.	Hold	Contractor
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		Outdoor Feature Requirements	Hold	Contractor
2.6	Outdoor Feature An upgrade of the outdoor entrance feature to the Simulator Building is required for aesthetic purposes.	<ul style="list-style-type: none">• Pebble/ stone fill for ground area• Ground flood lights x 3• African pot arrangements x 5		
2.7	Important Notes: <ul style="list-style-type: none">• It is the contractor's responsibility to verify any measurement and bill of quantities of interest.• The contractor shall provide a service report detailing the condition prior to the commencement of works, works executed and the condition after the works have been completed.		Report	Contractor

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BILL OF MATERIAL

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Supply and installation of dry wall soundproofing	N/A	N/A	N/A	190 m ²
2	Supply and installation of aluminium shopfront doors	N/A	N/A	N/A	2
3	Supply and installation of tiles	Susana beige ceramic 400, 00 mm x 400, 00 mm tiles	N/A	N/A	170 m ²
4	Supply and painting of walls	Pantone 8004C	N/A	N/A	190 m ²
5	Backfilling of cable trenches	30 MPa concrete	N/A	N/A	3 m ³
6	Supply and install AV Controller	N/A	N/A	N/A	1
7	Supply and install Wall mounted speakers with brackets	N/A	N/A	N/A	6
8	Supply and install Stage PA Speaker	N/A	N/A	N/A	1

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9	Supply and install 12 Channel Mixer	N/A	N/A	N/A	1
10	Supply and install Ceiling Intercom System	N/A	N/A	N/A	6
11	Supply and install Amplifier	N/A	N/A	N/A	1
12	Supply and install Cordless Handheld Mics	N/A	N/A	N/A	2
13	Supply and install Cordless Lapel Mics	N/A	N/A	N/A	2
14	Supply and install Motorized Screen (3m)	N/A	N/A	N/A	1
15	Supply and install Projector	N/A	N/A	N/A	1
16	Supply and install Fixed Auditorium Chairs	N/A	N/A	N/A	100
17	Supply and install Moveable Auditorium Chairs	N/A	N/A	N/A	20
18	Supply and install Moveable Auditorium Tables	N/A	N/A	N/A	4
19	Supply and install Recess ceiling lights	1200, 00 mm x 600, 00 mm	N/A	N/A	22

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20	Supply and install Dimmable side lights	N/A	N/A	N/A	6
21	Supply and install Light switches	N/A	N/A	N/A	2
22	Supply and install Plug point	N/A	N/A	N/A	3
23	Supply and install replacement suspended ceiling panels	N/A	N/A	N/A	170 m ²
24	Supply and install Pebble/ stone fill for ground area	N/A	N/A	N/A	10 m ²
25	Supply and install ground flood lights	N/A	N/A	N/A	3
26	Supply and install African Pot Arrangements	N/A	N/A	N/A	5

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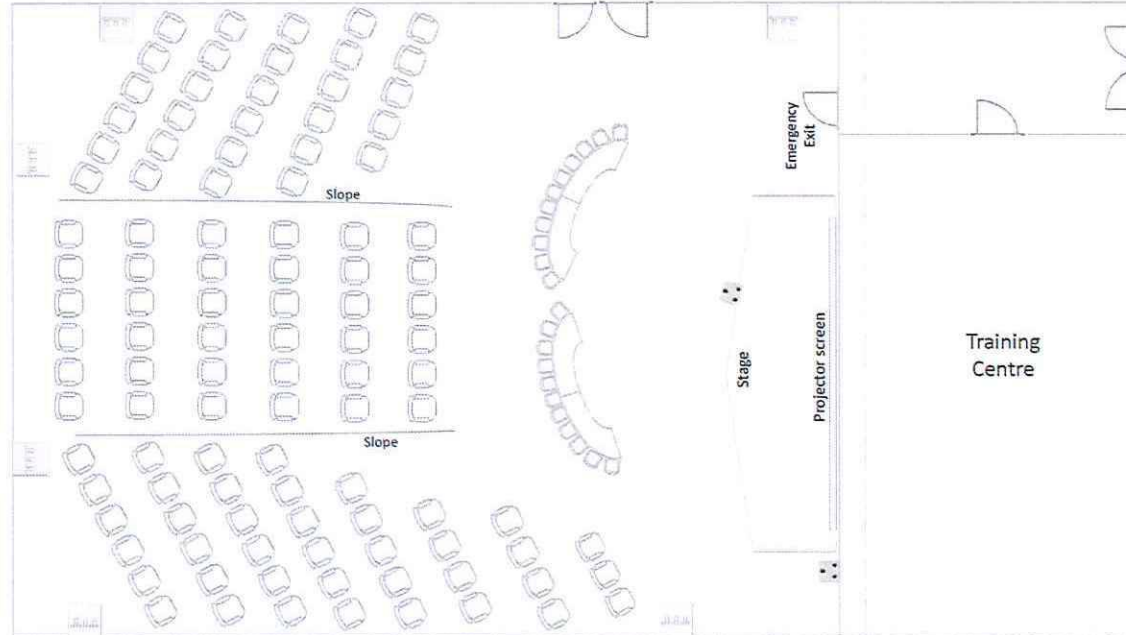


Figure 1: Proposed New Layout of Auditorium

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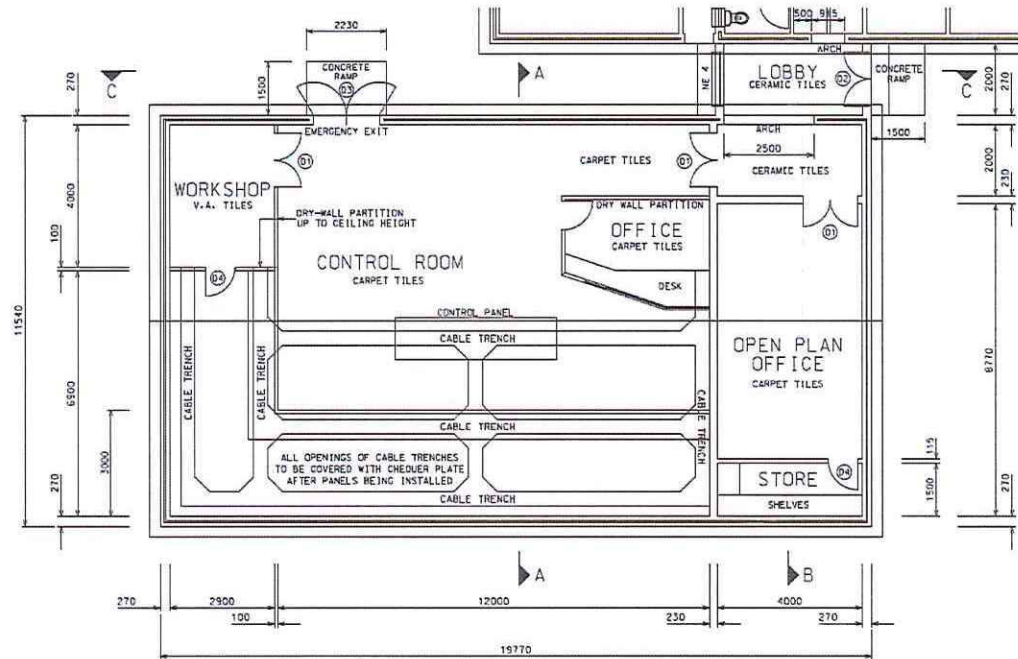


Figure 2: Current Layout of Simulator Building

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SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports			X	
Return to service data packages			X	
Maintenance Strategy with Rev number			X	
SAP defects (attach list as appendix)			X	
GHRMS (STEP) reports (Generation Heat Rate Management System)			X	
Online Condition Monitoring			X	
Pre-outage performance test results			X	
Post outage performance test results			X	
GPSS/ Plant Performance data on UCLF incurred			X	
OMS / IIRMS recommendations (Audits Reports)			X	
Risk controls (IRM system)			X	
Previous audits and reviews (e.g. ERAP)			X	
Engineering Change Requests (Projects)			X	

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LOPP strategy reports			X	
URS			X	
Philosophy (Outage)			X	
Condition Monitoring Report			X	
VA/PHD Viewer trends			X	
Corrective Actions	X			
CARAB reports			X	
Statutory Requirements			X	
Grid code requirements			X	
Waivers and Exemptions			X	
Calibration requirements			X	
Previous Outage SOW variations			X	
Postmortems Actions from previous outages			X	
Pre-Outage plant walks			X	
Risk based inspection (RBI) report			X	
Simulation, TOIs, OON, SI			X	

COMMENTS

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ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc
Proposed HVAC Schematic

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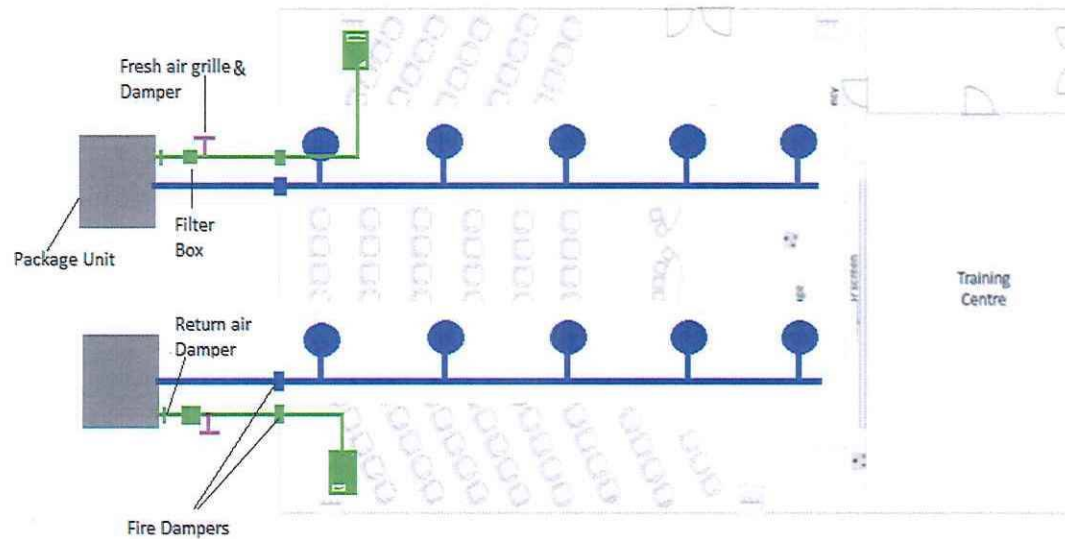
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Proposed HVAC Schematic



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Technical evaluation strategy Simulator Building									
Weight Threshold (%)	Section	KPI Criteria Evaluation Indicator	Minimum Criteria Evaluation Requirements	Source	%	Qualitative Evaluation Scoring			
						0	2	4	5
Technical Requirements									
		1 Company Profile Document	Work Experiences (25%)						
80%	Technical Requirements	Traceable Evidence of projects Completed	Any (1-3) Projects completed related to building refurbishment sound and lighting installation or HVAC supply and installation	Company to provide list of previous work completed with proof of completion certificates and contact person at the company where work was carried out	25%	Not Provided	1 project completed with the Completion Certificate	2 Projects Completed with the Completion Certificates	3+ Projects completed with the Completion Certificates
		2 Project Resources	Technical Staff (35%)						
		CVs and Qualifications	Civil Engineering Technician, must have at least (3 - 5) years experience in structures	Submit CV and Proof of Qualification	10%	Qualification with 0 Years' experience	CV and Qualifications with 3 years experience	CV and Qualifications with 4 years experience	CV and Qualifications with 5 years experience
			HVAC Professional Engineer or Technologist, must have at least (5 to 10) years of experience in Designing, Installing and commissioning HVAC systems	Submit academic qualification, ECSA Certificate and CV with traceable references of proposed personnel	20%	No qualification or qualification without ECSA professional Registration	Qualification and ECSA certificate and CV with 5 years experience	Qualification and 1 CSA certificate and CV with 5 - 9 years experience	Qualification and ECSA certificate and CV with 10 years experience
			Safety officer with SAMTRACT or safety related qualification with (1-3) years experience	Submit CV and Proof of Qualification	5%	Qualification with 0 Years' experience	Qualification with 1 Year experience	Qualification with 2 Years' experience	Qualification with 3+ Years' experience
		3 Project Quality Documents	Project Quality Documents (40%)						
		Project Quality Documents	Detailed Technical Methodology	Submit the work specific technical Methodology • Sound proofing of auditorium • Sloping of auditorium floor • Supply and installation and commissioning of HVAC Systems Housekeeping and transporting of debris material offsite inclusive of disposal	20%	Not submitted	1 2 Points addressed	3 Points addressed	4 Points addressed
			Detailed Project Plan	Submit the work specific detailed project plan Start and finish date Details on how duration were estimated as well as logical sequencing • Critical path clearly defined	10%	Not submitted	1 3 Points addressed	2 Points addressed	3 Points addressed
			Job Specific Quality Control Plan	Submit job specific QCP • Sound proofing of auditorium • Construction of sloped floor for auditorium seating • Installation of lighting and sound equipment • Supply and installation of HVAC system	10%	Not submitted	1- 2 Points addressed	3 Points addressed	4 Points addressed