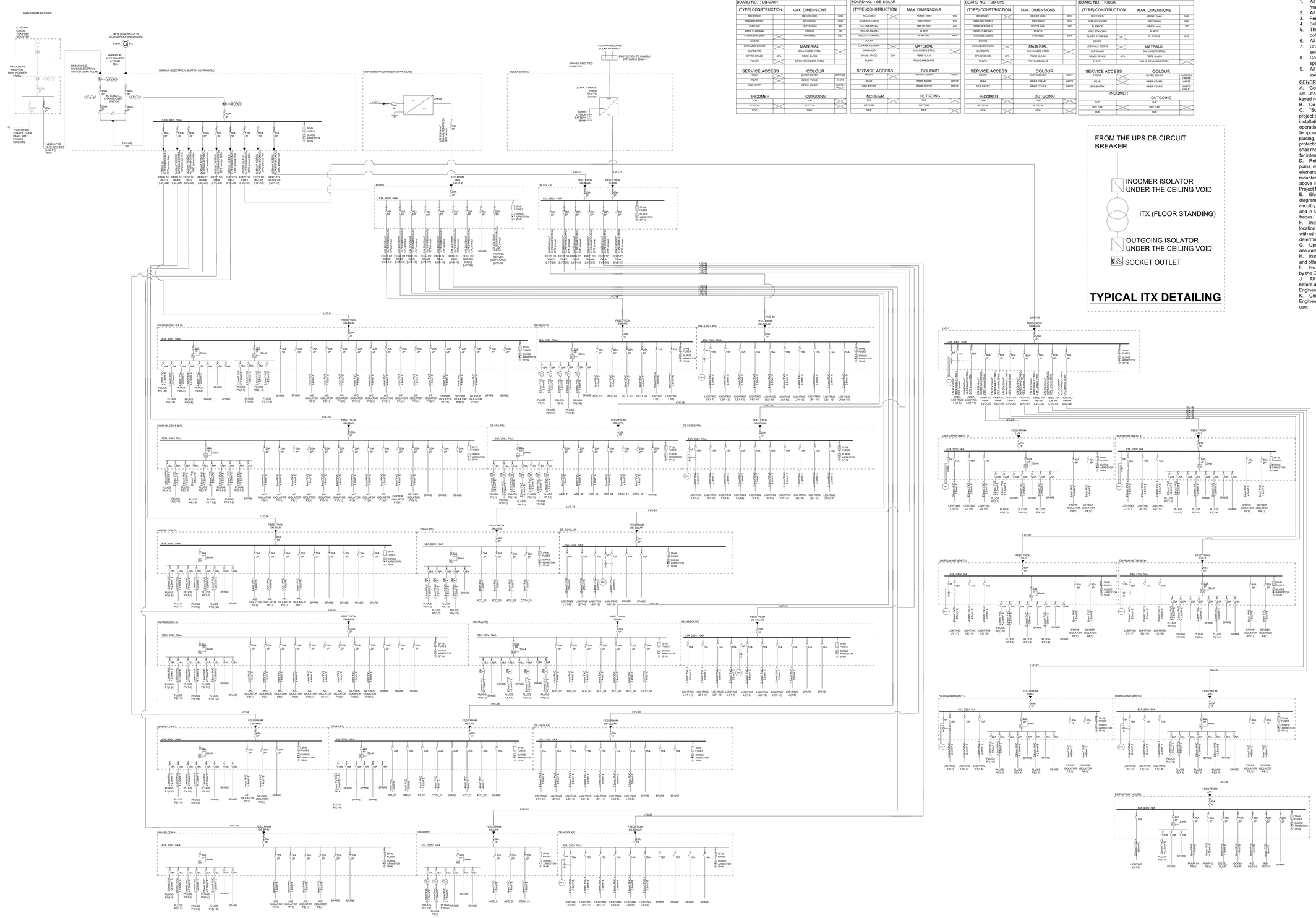

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-MAIN			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	2000
SEMI-RECESSED		WIDTH(mm)	2000
SURFACE		DEPTH (mm)	900
FREE STANDING		PLINTH	100
FLOOR STANDING		IP RATING	IP54
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	ORANGE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE / VIOLET
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	600
SEMI-RECESSED		WIDTH(mm)	600
POLE MOUNTED		DEPTH (mm)	250
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP54
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		POLYCARBONATE	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	GREY
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-UPS			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	600
SEMI-RECESSED		WIDTH(mm)	600
POLE MOUNTED		DEPTH (mm)	250
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP54
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		POLYCARBONATE	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	GREY
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : KIOSK			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1500
SEMI-RECESSED		WIDTH(mm)	1000
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP66
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	AVOCADO GREEN
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE / VIOLET
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DRAWING NOTES:

1. All shop drawings to be approved prior to manufacture.
2. All distribution boards and kiosks to be labeled.
3. Feeds to be balanced.
4. Bulkmeter inside MSS Thulasizwe Hospital.
5. Three-phase lighting circuits to contain 3xsingle pole circuit breakers.
6. All main indoor DB Switches to be exposed
7. Change-over panel (DB-GF C/O) to include main selector switch.
8. Colour of distribution boards to be as per specification document.
9. All Security lights to have individual daylight switches.

GENERAL NOTES:

A. General notes apply to entire electrical drawing set. Drawing notes apply to associated drawings. Plan keyed notes apply where indicated.
B. Do not scale or dimension from these drawings.
C. "Supply" shall mean to supply and deliver to project site, ready for unloading, unpacking, assembly, installation and similar operation. "Install" shall mean operations at project site, including unloading, temporary storing, unpacking, assembling, erecting, placing, anchoring, working to dimension, finishing, protecting, cleaning, and similar operation. "Provide" shall mean to furnish and install, complete and ready for intended use.
D. Refer to architectural, electrical and mechanical plans, elevations, and details for locations of ceiling elements (light fittings, diffusers, etc.) and wall mounted devices. if location for item is not shown on above listed drawings, verify critical areas with field Project Manager.
E. Electrical systems indicated on drawings are diagrammatic and additional work, including necessary circuitry, shall be provided to make systems complete and in safe working order.Co-ordinate work with other trades.
F. Indicated circuit runs are diagrammatic. Size and location pull boxes per SANS 10142 and coordinate with other disciplines. building conditions shall determine actual conduit runs.
G. Upon job completion, provide As-Built drawings accurately depicting final construction.
H. Installation to comply with OHS act, SANS 10142 and other relevant SANS codes.
I. No commissioning to take place unless authorised by the Engineer.
J. All test certificates to be issued to the Engineer before any commissioning can be authorised by the Engineer.
K. Certificate of compliance to be issued to the Engineer after commissioning but before handover for use.

LEGEND	
G	275kVA DIESEL GENERATOR
MB	METER BOX
	SINGLE POLE CIRCUIT BREAKER
	TRIPLE POLE CIRCUIT BREAKER
	THREE PHASE ISOLATOR
EL	EARTH LEAKAGE
M	ELSTER A1740 METER
A	AMMETER
V	VOLTMETER
C	SINGLE PHASE CONTACTOR
LED	RED, WHITE AND BLUE LED INDICATOR FOR EACH PHASE
TX	ISOLATION TRANSFORMER

FROM THE UPS-DB CIRCUIT BREAKER

INCOMER ISOLATOR UNDER THE CEILING VOID

ITX (FLOOR STANDING)

OUTGOING ISOLATOR UNDER THE CEILING VOID

SOCKET OUTLET

TYPICAL ITX DETAILING

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-CO(UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-EF(UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-G(UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-AM(UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE / VIOLET
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-AM/UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE / VIOLET
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-H/UPS/SOLAR			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP66
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-R1/R2/R3/R4/R5/R6			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	600
SEMI-RECESSED		WIDTH(mm)	600
SURFACE		DEPTH (mm)	200
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP44
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	WHITE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

DISTRIBUTION BOARD INFORMATION			
BOARD NO. : DB-PH			
(TYPE) CONSTRUCTION		MAX. DIMENSIONS	
RECESSED		HEIGHT (mm)	1200
SEMI-RECESSED		WIDTH(mm)	1200
SURFACE		DEPTH (mm)	300
FREE STANDING		PLINTH	
FLOOR STANDING		IP RATING	IP65
DOORS			
LOCKABLE DOORS		MATERIAL	
CUPBOARD		GALVANIZED STEEL	
SPARE SPACE	30%	FIBRE GLASS	
PLINTH		3CR12 STAINLESS STEEL	
SERVICE ACCESS		COLOUR	
FRONT		OUTER COVER	ORANGE
REAR		INNER FRAME	WHITE
SIDE ENTRY		INNER COVER	WHITE
INCOMER		OUTGOING	
TOP		TOP	
BOTTOM		BOTTOM	
SIDE		SIDE	

ELECTRICAL SCHEMATIC DIAGRAM

SCALE: 1:225

FOR TENDER

REVISIONS							
NO	DATE	DESCRIPTION	CHECKED	NO	DATE	DESCRIPTION	CHECKED
A	12/04/24	FOR APPROVAL	DN				
B	05/07/24	DETAIL DESIGN	DN				
C	19/08/24	FOR TENDER	DN				

SCALE		
NTS		
AS SHOWN (A0)		
DESIGN	THULANI.M	
DRAWN	PORTIA.B	
CHECKED	D NAIDOO	

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ELECTRICAL / MECHANICAL
GRID DNA CONSULTING ENGINEERS

CIVIL / STRUCTURAL
HOKMAH Consulting Engineers & Project Managers

QUANTITY SURVEYOR
RUBIQUANT QUANTITY SURVEYORS

CLIENT/EMPLOYER
health Department: Health PROVINCE OF KWAZULU-NATAL
FIGHTING DISEASE, FIGHTING POVERTY, GIVING HOPE

PROJECT DESCRIPTION	CONTRACT NO.
THULASIZWE CLINIC	TC001
DRAWING DESCRIPTION	DRAWING NO.
ELECTRICAL SCHEMATIC	DNA-TC-ELE-SC-1009-00
	REV.NO. A B C