



SCHEDULE OF EQUIPMENT		
NO REQD	DESCRIPTION	REMARKS
6	66kV SELF SUPPORTING SEALING ENDS	LOW BAR
1	66kV DISCONNECTOR - WITH EARTH BLADES (RHS)	LOW BAR
1	66kV CIRCUIT BREAKER	-
1	66kV DISCONNECTOR - EARTH BLADES (LHS)	LOW BAR
3	VOLTAGE TRANSFORMERS	-

NOTE
ALL SWITCHGEAR OUTLINES ARE TYPICAL ONLY.
ALL SETTING OUT DIMENSIONS SHOULD BE VERIFIED WHEN SPECIFIC SWITCHGEAR DETAILS ARE AVAILABLE.

LOCATION MARKS SHOWN THUS ⊗

MAIN MECHANISM BOX SHOWN THUS ▷

EARTH BLADE MECHANISM BOX SHOWN THUS ○

DENOTES FIXED CONNECTION ⊕

DENOTES SLIDING CONNECTION ⊙

STANDARD STRUCTURE REFERENCE NO. (S1) TO (S19)

(REFER TO STANDARD 66kV STRUCTURE SCHEDULE C1072723 SHEET 1 & C1072724 SHEET 2 FOR DETAILS)

FLOODLIGHTS MOUNTED ON 3m POLE ☼

CONDUIT DUTY
E EARTHING.
M MULTICORE CABLES.
P 66kV POWER CABLES.
S SPARE/HEATING & LIGHTING.
A AUXILIARY TRANSFORMER CABLE.

KEY TO CONDUITS
— STRAIGHT
— TREFOIL GROUP

ALL CONDUITS TO BE 150mm BORE LAD AT 250mm CENTRES, UNLESS OTHERWISE STATED.
ALL CONDUITS TO BE SUITABLY SEALED OFF AFTER LAYING OF CABLES.

SETTING OUT DETAILS
SETTING OUT DETAILS TO BE PERMANENTLY MARKED OUT ON SITE.

CLEARANCES

NOMINAL SYSTEM VOLTAGE	66kV
STANDARD BUSBAR CENTRES	1675mm
PHASE TO EARTH	700mm
PHASE TO PHASE	780mm
SAFETY CLEARANCE (TO LIVE METAL)	3100mm
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2400mm
HORIZONTAL DESIGN CLEARANCES:	66kV
ALLOWING FOR HYDRAULIC PLATFORM	7500mm
ALLOWING FOR PORTABLE ACCESS EQUIPMENT	3500mm
ALLOWANCE FOR NO ACCESS EQUIPMENT	3250mm
DELINEATED BARRIER CLEARANCE	2500mm

SETTING OUT LINE X - X TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE ⊗

SETTING OUT LINE Y - Y TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE ⊙

BUSBAR TYPE	CONTINUOUS CURRENT RATING (Amp)	MAX UNSUPPORTED SPAN (mm)	APPROXIMATE WEIGHT PER METRE (kg)
HARD DRAWN BARE COPPER (HDBC)			
ALUMINIUM (AI)			
NEW INSTALLATIONS			
Al. 90mm Dia, 6mm WALL THICKNESS	2000A	10400 or 6000"	4.320
Al. 60mm Dia, 4mm WALL THICKNESS	1200A	6700 or 3500"	1.950

*RESTRICTION DUE TO END FIXING TYPE (SEE TABLE 5.1 of ENATS 41-11)

SECTION A-A

NORTHERN POWERGRID

Manufacturer Details

Sheet No. _____

Scale 1:100

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STANDARD 66kV CUSTOMER CONNECTIONS
COMPOUND LAYOUT SHOWING SINGLE SWITCH METERING
SUBSTATION FOR SINGLE FEED CONNECTION

ISO A1
C.A.D.

Document Details

CONSTRUCTION STANDARDS

Drawing No. C1026288

Historic Drawing No. Y017S2114

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