

50mm<sup>2</sup> X 4 CORE PVC/SWA/PVC + 25mm<sup>2</sup> BCEW  
(FROM NORMAL POWER SUPPLY SOURCE DB)

50mm<sup>2</sup> X 4CORE PVC/SWA/PVC +  
25mm<sup>2</sup> BCEW  
(FROM AVAILABLE STANDBY GENERATOR)

50mm<sup>2</sup> X 4CORE PVC/SWA/PVC +  
25mm<sup>2</sup> BCEW  
(FROM UPS UNIT/VOLTAGE)

AUTOMATIC CHANGE-OVER  
UNIT BUILT INTO DB-40Nm<sup>3</sup> /h-PSA

160A  
TPN  
ISOLATOR

4XSURGE DIVERTORS

6kA 400V 160A

10A

40A  
EL  
30mA

125A

20A

20A

20A

20A

20A

20A

LABEL	L1	P1	ACOMP	ADR	O2GEN	O2COMP	AC1	AC2	SP	ALLOW SPARE SPACE 25 % – FOR WHOLE DB
EQUIPMENTS	LIGHTS	SOCKET OUTLETS	AIR COMPRESSOR	AIR DRYER	OXYGEN GENERATOR	OXYGEN COMPRESSOR	AIR CON UNIT	AIR CON UNIT	SPARES	
CONDUCTOR SIZE IN mm sq	2.5	4	35x4C	2.5x4C	2.5x4C	2.5x4C	2.5	2.5	–	
EARTH CONDUCTOR SIZE IN mm sq	2.5	4	25	2.5	2.5	2.5	2.5	2.5	–	
CONDUIT SIZE IN mm dia.	20	20	–	–	–	–	20	20	–	

HOSPITAL NAME : JUBILEE DISTRICT P1  
LABEL : DB-40Nm<sup>3</sup>/h-PSA  
SUPPLY : 400V THREE PHASE 50HZ  
COLOUR : HOSPITAL GREY  
LOCATION : INSIDE PLANT ROOM AGAINST CONTAINER WALL  
NEXT TO AIR COMPRESSOR  
MOUNTING : SURFACE FLOOR STANDING  
SPARE : 25% SPARE CAPACITY

#### CLIENT



#### EMPLOYERS AGENT



(PTY) LTD.  
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0028.

#### IMPLEMENTING AGENT



#### DWG TITLE

40Nm<sup>3</sup>/h CONTAINERISED PSA PLANT:  
SINGLE LINE DIAGRAM

#### DWG NO.

PSA-40-EL-MG-01

#### DESIGN AND DRAWN

L.C PR No. 2024601206 DATE 17.04.2023

#### APPROVED

W.K PR No. 201570180 DATE 17.04.2023

#### STATUS

ISSUED FOR TENDER