

CLIENT:

NAPPCO COMPANY

PROJECT:

**NAPPCO
132/20kV TEMPORARY SUBSTATION**

SUBJECT:

EARTHING SYSTEM EQUIPMENT ORDER

CONSULTANT:



CONTRACTOR:



TRANS POST PARS Co.

DOCUMENT NUMBER:

NAP-H-DOC-ED-323-Z

Prepared by: A.F.

Checked by: H.A.

Approved by: H.A.

Date: 1405/07/26



NAPPCO132/20kV TEMPORARY SUBSTATION

LIST OF MATERIAL FOR EARTHING SYSTEM (CADWELD CONNECTIONS)

ITEM	DESCRIPTION	UNIT	TOTAL
SUITABLE AMOUNT OF POWDER, MOULD, GUN, AND OTHER ACCESSORIES NECESSARY FOR CADWELD CONNECTIONS BELOW SHOULD BE SPECIFIED BY MANUFACTURER.			
1	T CONNECTION OF 120mm ² COPPER COND. (MESH) TO 150mm ² COPPER COND. (RISER)	no.	45
2	T CONNECTION OF 120mm ² COPPER COND. (MESH) TO 50mm ² COPPER COND. (RISER)	no.	25
3	T CONNECTION OF 150mm ² COPPER COND (RISER) TO ROD((L=3m, D =16mm)	no.	20
4	T CONNECTION OF 120mm ² COPPER COND.(MESH) TO 120mm ² COPPER COND.(MESH)	no.	60
5	CROSS CONNECTION OF 120mm ² COPPER COND.(MESH) TO 120mm ² COPPER COND.(MESH)	no.	90
6	CAD WELD POWDER FOR ITEM 1~5	gr.	as Req.
7	CAD WELD MOULD FOR ITEM 1	no.	2
8	CAD WELD MOULD FOR ITEM 2	no.	1
9	CAD WELD MOULD FOR ITEM 3	no.	1
10	CAD WELD MOULD FOR ITEM 4	no.	2
11	CAD WELD MOULD FOR ITEM 5	no.	3
12	CAD WELD GUN ,HANDLE CLAMP,AND TOOLKIT	no.	as Req.

NAPPCO132/20kV TEMPORARY SUBSTATION

LIST OF MATERIAL FOR EARTHING SYSTEM (JOINTS AND ACCESSORIES)

ITEM	DESCRIPTION	UNIT	TOTAL
EARTHING JOINTS AND ACCESSORIES			
1	ONE-HOLE CABLE LUG (150mm ² , Φ=14mm)	no.	40
2	ONE-HOLE CABLE LUG (50mm ² , Φ=14mm)	no.	85
3	TWO-HOLE CABLE LUG (150mm ² , Φ=14mm)	no.	30
4	SUITABLE BOLT & NUTS & SPRING WASHER FOR ITEM 1~3	no.	185
5	SUITABLE FLAT WASHER FOR ITEM 1~3	no.	370
6	TOWER EARTH CLAMP (150mm ²) WITH RELEVANT BOLT AND WASHER	no.	12
7	CABLE SUPPORT CLAMP FOR 150mm ² N2XSY CABLE WITH RELEVANT BOLT AND WASHER	no.	12
8	CLAMP SUITABLE FOR FIXING 50mm ² COPPER CONDUCTOR ON CONCRETE WALL OR CONCRETE GANTRY WITH RELEVANT BOLT AND WASHER	no.	60
9	GROUNDING EQUIPOTENTIAL MAT (1000*500*30)	no.	2
10	COPPER BOND STEEL EARTHING ROD (L=3m, φ=16mm)	no.	20
11	EARTH PIT	no.	4
12	FLEXIBLE COPPER EARTH BOND (FOR EARTHING DOORS)	no.	4
13	BIMETAL WASHER	no.	As require