

Item	Description	Qty.
1	220kV Bus post Insulator	104
2	132kV Bus post Insulator	83
3	33kV Bus post Insulator	3

LEGEND-132KV

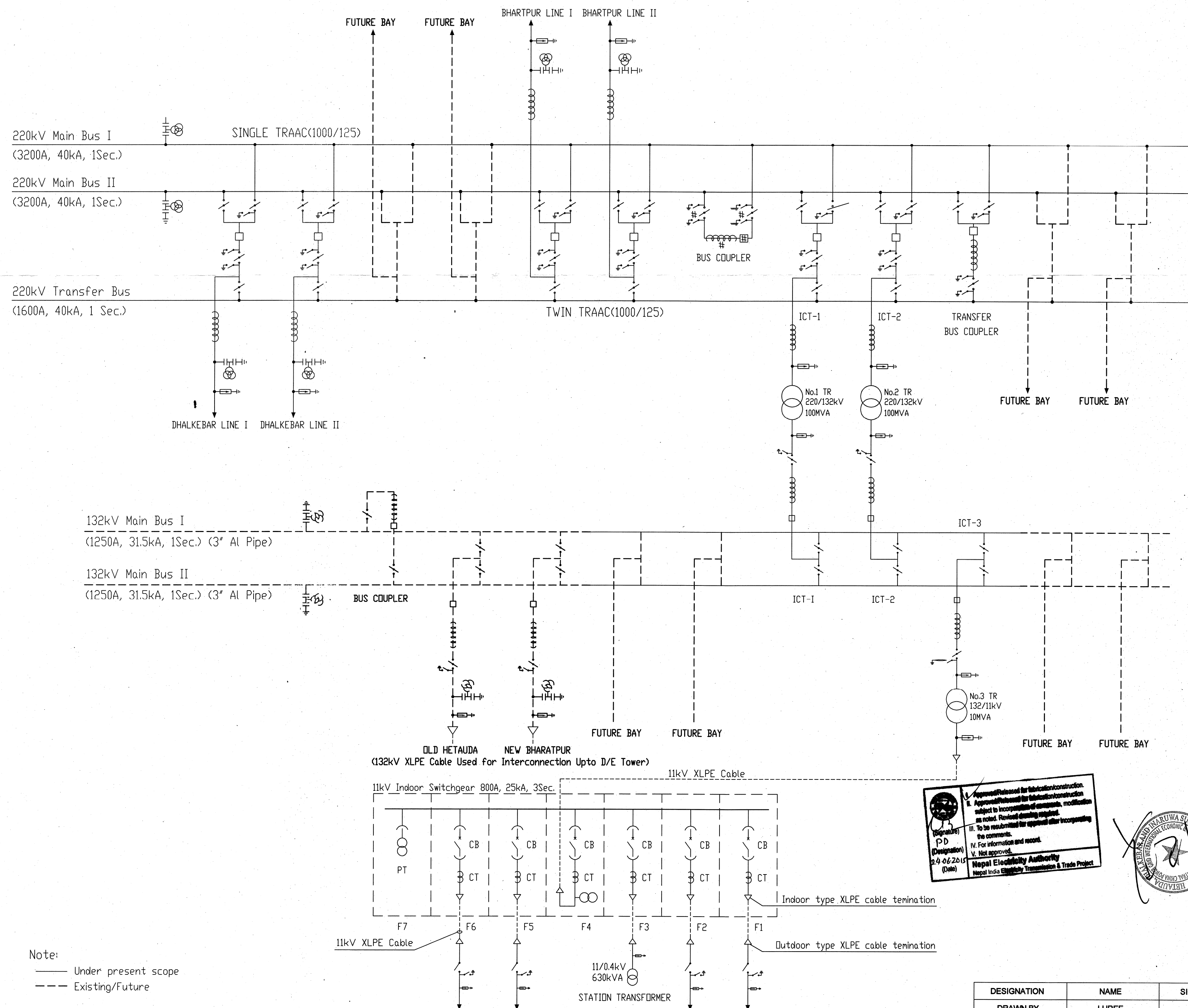
NOT:



----- Existing/Future
 _____ Under present scope

Not:

220/132/11KV HETAUDA SUBSTATION



LEGEND-220kV

Item	Description	Qty	Symbol
1	Circuit Breaker (3-phase) 2500A, 40kA, 1sec.	1	
2	Circuit Breaker (3-phase) 1600A, 40kA, 1sec.	7	
3	Isolator with Two Earth Switches 2500A, 40kA, 1sec. (3-phase)	2	
4	Isolator with Two Earth Switches 1600A, 40kA, 1sec. (3-phase)	7	
5	Isolator with One Earth Switches 1600A, 40kA, 1sec. (3-phase)	7	
6	Isolator (Tanden) without Earth Switches 1600A, 40kA, 1sec. (3-phase)	13	
7	Current Transformer (1-phase) 1600A, 40kA, with 150% Extended Rating	3	
8	Current Transformer (1-phase) 1600A, 40kA, with 120% Extended Rating	21	
9	Capacitor Voltage Transformer 5000pf (1-phase)	18	
10	Surge Arrester (1-phase) 216kV	18	

LEGEND-132kV

Item	Description	Qty	Symbol
1	Circuit Breaker (3-phase) 1250A, 31.5kA, 1sec.	3	
2	Isolator with One Earth Switches 1250A, 31.5kA, 1sec. (3-phase)	3	
3	Isolator without Earth Switches 1250A, 31.5kA, 1sec. (3-phase)	6	
4	Current Transformer (1-phase) 800A, 31.5kA, with 120% Extended Rating	9	
5	Surge Arrester (1-phase) 120kV	15	

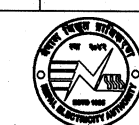
LEGEND-11kV

Item	Description	Qty	Symbol
1	Auxiliary Transformer 630kVA, 11/0.4kV	1	
2	Isolator with One Earth Switches 630A, 25kA, 3sec. (3-phase)	4	
3	Surge Arrester (1-phase) 9kV	18	

LEGEND-11kV Indoor Switchgear

Item	Description	Qty	Symbol
1	Incoming Feeder Panel 11kV, 800A, 25kA	1	
2	Outgoing Feeder Panel 11kV, 800A, 25kA	4	
3	LT Transformer Panel 11kV, 800A, 25kA	1	
4	PT Panel 11kV	1	

REV	DATE	MODIFICATION
3	10-06-2015	FORTH ISSUE OF APPROVAL
2	01-04-2015	THIRD ISSUE OF APPROVAL
1	24-02-2015	SECOND ISSUE OF APPROVAL
0	05-02-2015	FIRST ISSUE OF APPROVAL



NEPAL ELECTRICITY AUTHORITY



CENTRAL CHINA POWER GRID
INTERNATIONAL ECONOMIC & TRADE CO.,LTD

NIETTP / W / ICB / -2 / SS

HETAUDA SUBSTATION

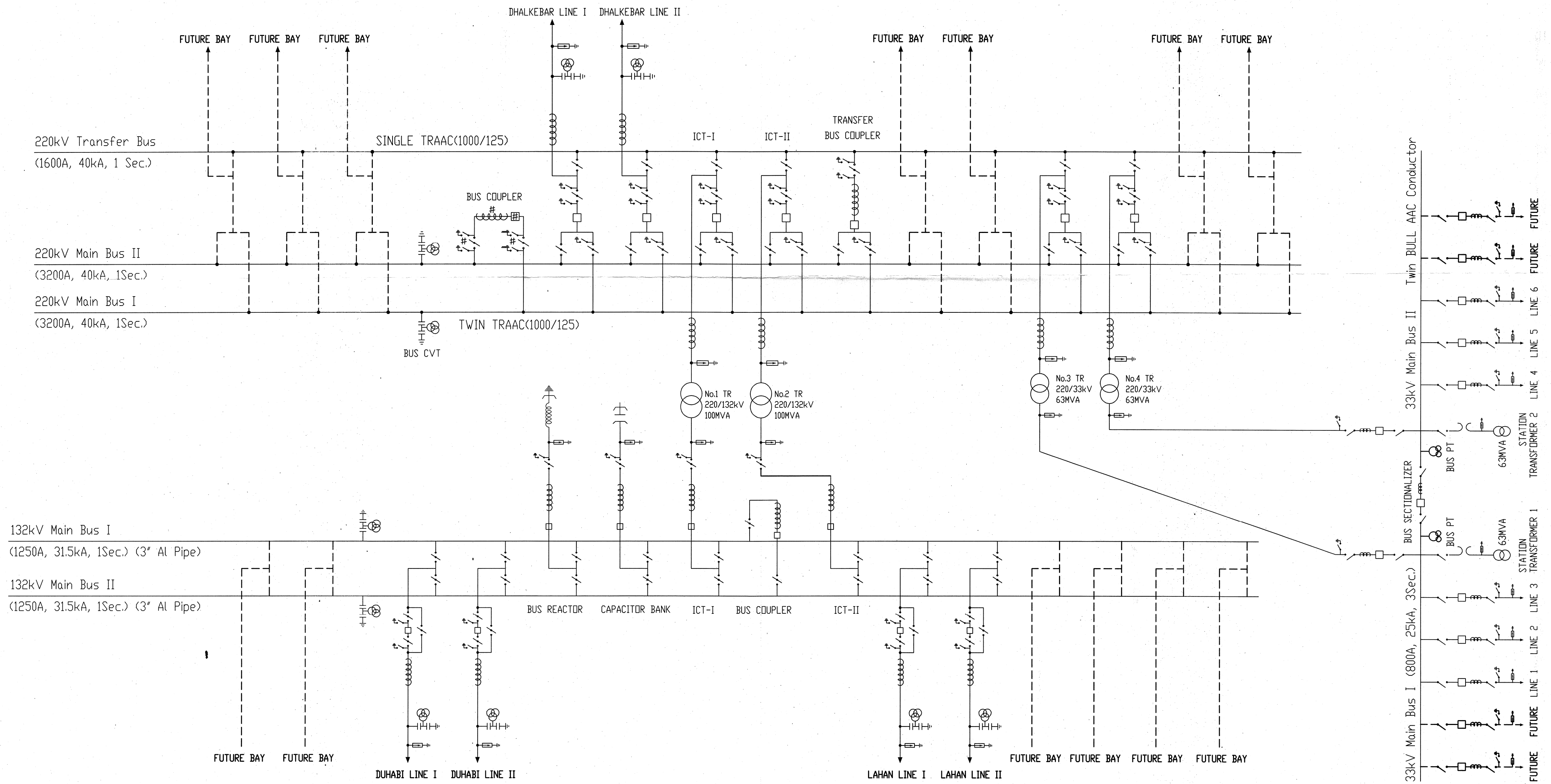
SINGLE LINE DIAGRAM

DESIGNATION	NAME	SIGNATURE
DRAWN BY	LUREE	
CHECKED BY	FAN JIANYE	
APPROVED BY	WU LEGUO	

DRAWING No. HTD-SS-E-01(01)

Note:
 — Under present scope
 --- Existing/Future

220/132/33KV INARUWA SUBSTATION



LEGEND-220kV

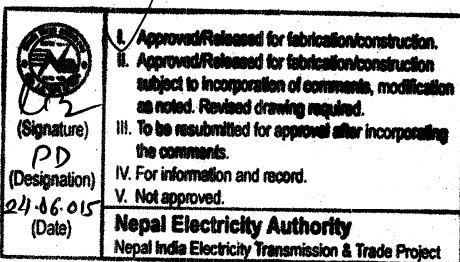
Item	Description	Qty	Symbol
1	Circuit Breaker (3-phase) 2500A, 40kA, 1sec.	1	
2	Circuit Breaker (3-phase) 1600A, 40kA, 1sec.	7	
3	Isolator with Two Earth Switches 2500A, 40kA, 1sec. (3-phase)	2	
4	Isolator with Two Earth Switches 1600A, 40kA, 1sec. (3-phase)	7	
5	Isolator with One Earth Switches 1600A, 40kA, 1sec. (3-phase)	7	
6	Isolator (Tandem) without Earth Switches 1600A, 40kA, 1sec. (3-phase)	13	
7	Current Transformer (1-phase) 1600A, 40kA, with 150% Extended Rating	3	
8	Current Transformer (1-phase) 1600A, 40kA, with 120% Extended Rating	21	
9	Capacitor Voltage Transformer 5000pF (1-phase)	12	
10	Surge Arrester (1-phase) 216kV	18	

LEGEND-132kV

Item	Description	Qty	Symbol
1	Circuit Breaker (3-phase) 1250A, 31.5kA, 1sec.	9	
2	Isolator with One Earth Switches 1250A, 31.5kA, 1sec. (3-phase)	12	
3	Isolator without Earth Switches 1250A, 31.5kA, 1sec. (3-phase)	22	
4	Current Transformer (1-phase) 800A, 31.5kA, with 120% Extended Rating	27	
5	Capacitor Voltage Transformer 1000pF (1-phase)	18	
6	Surge Arrester (1-phase) 120kV	24	

LEGEND-33kV

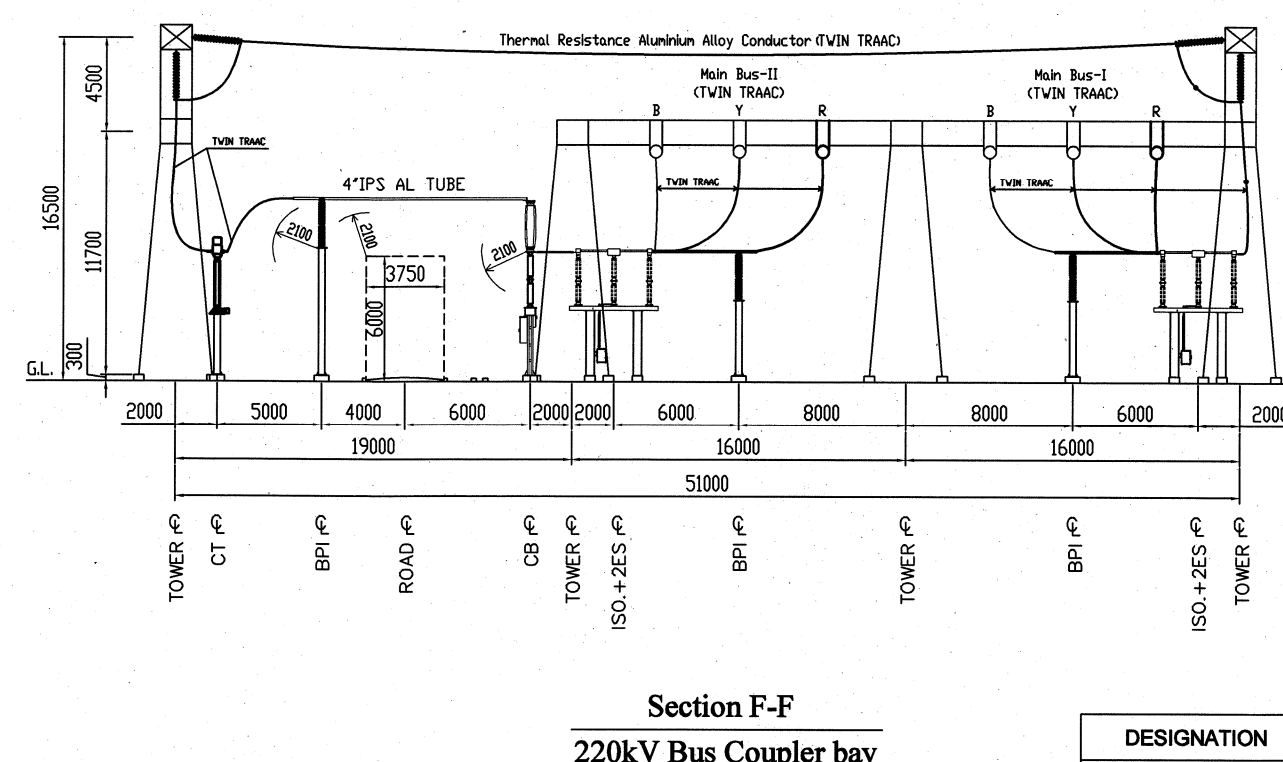
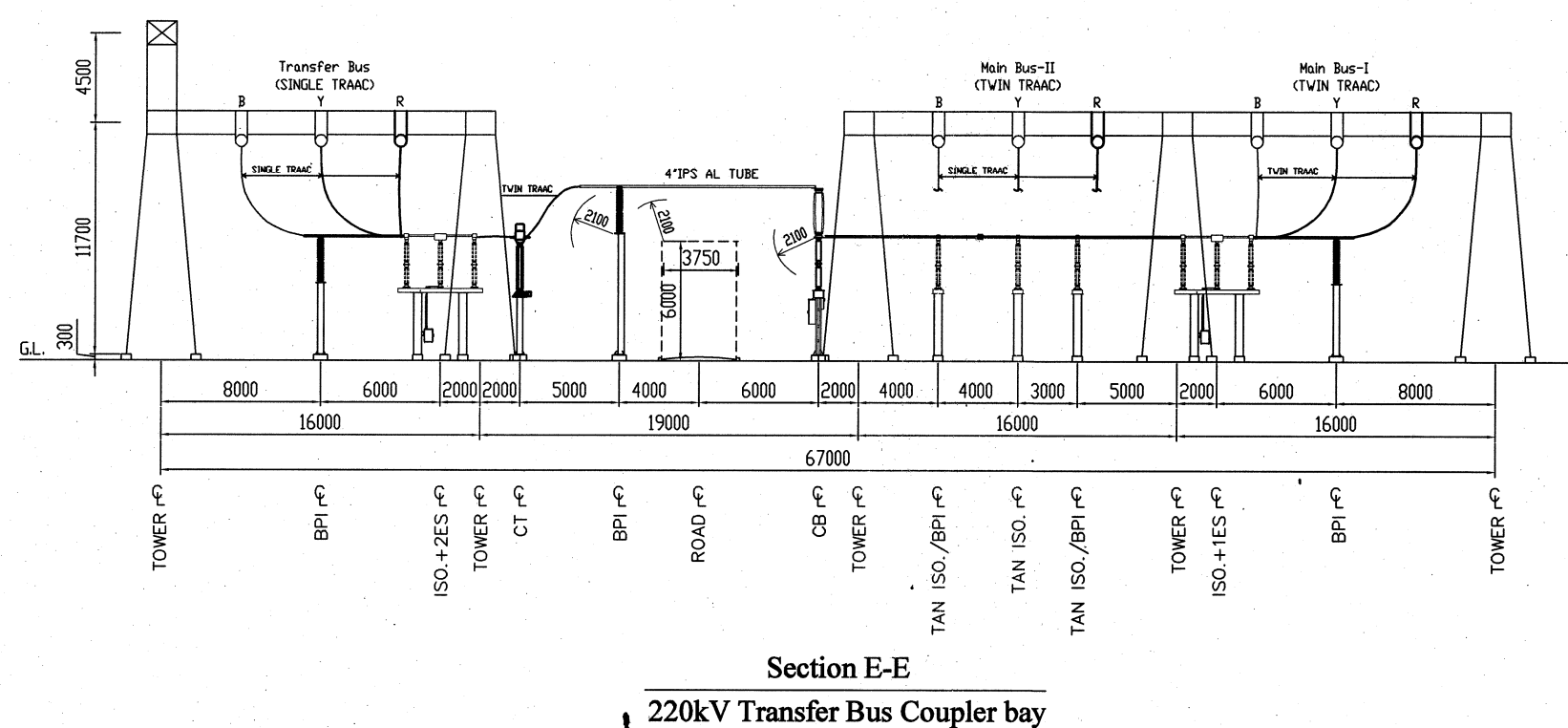
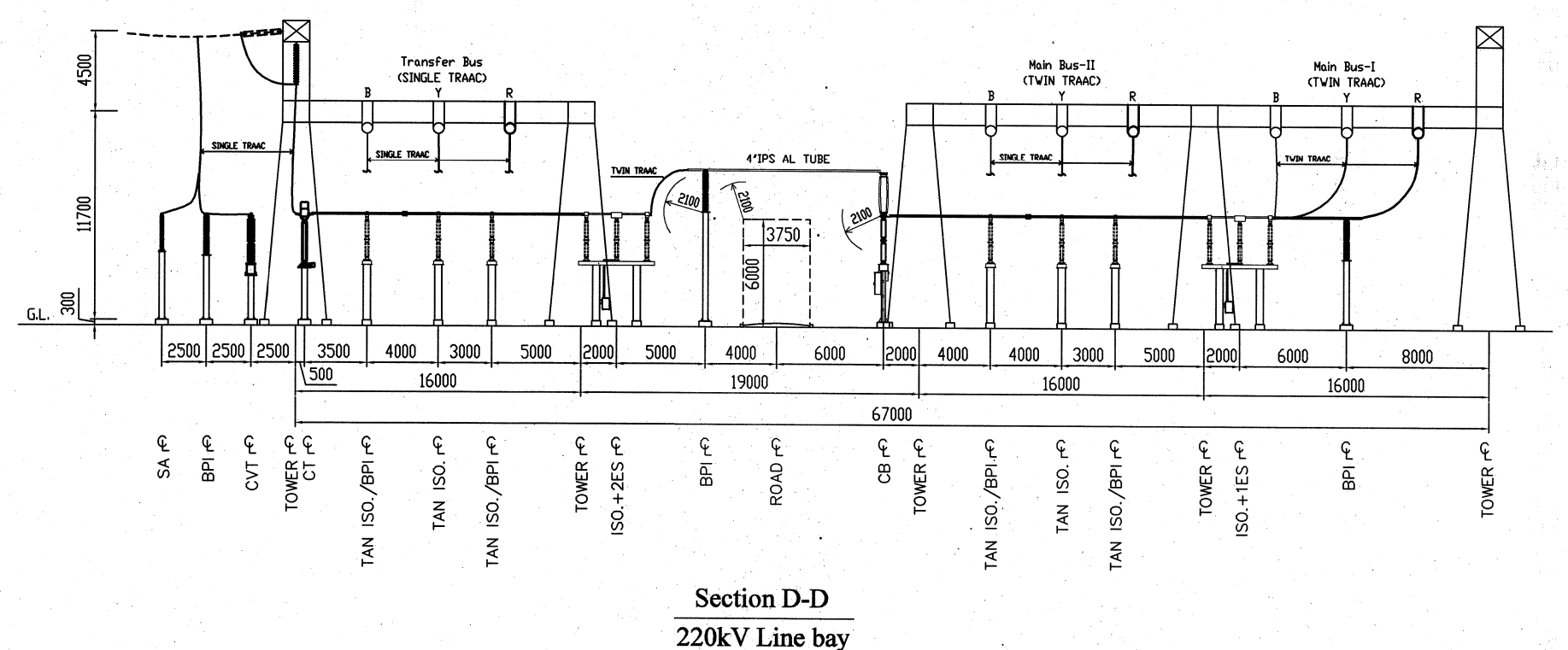
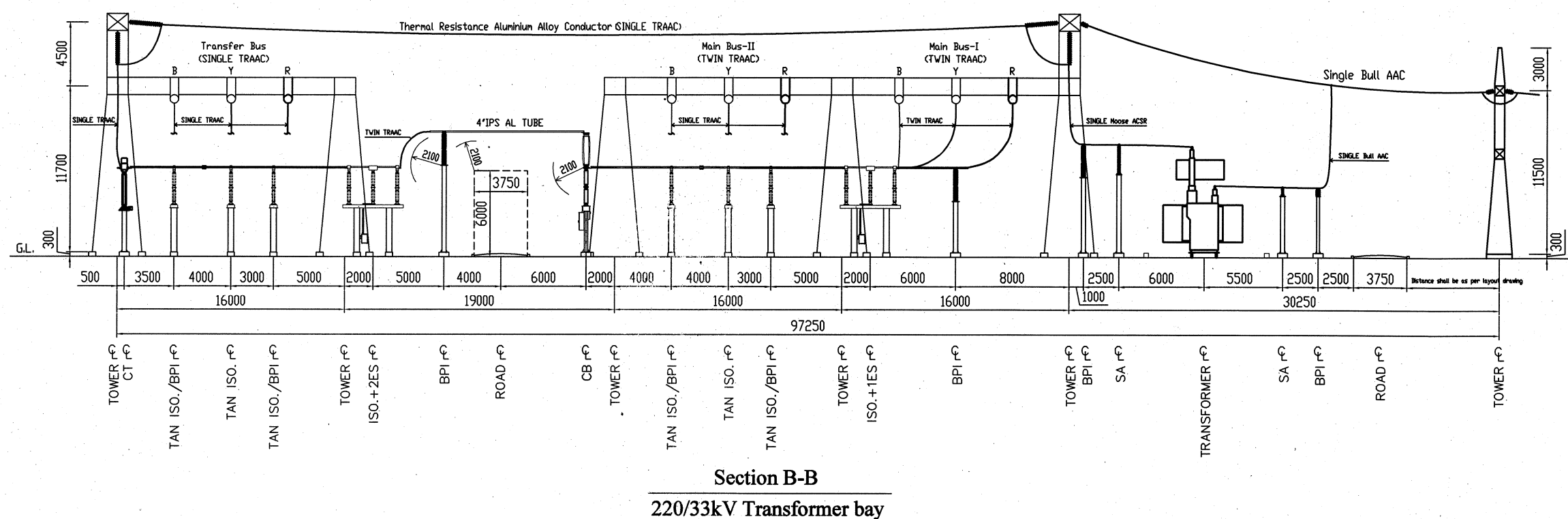
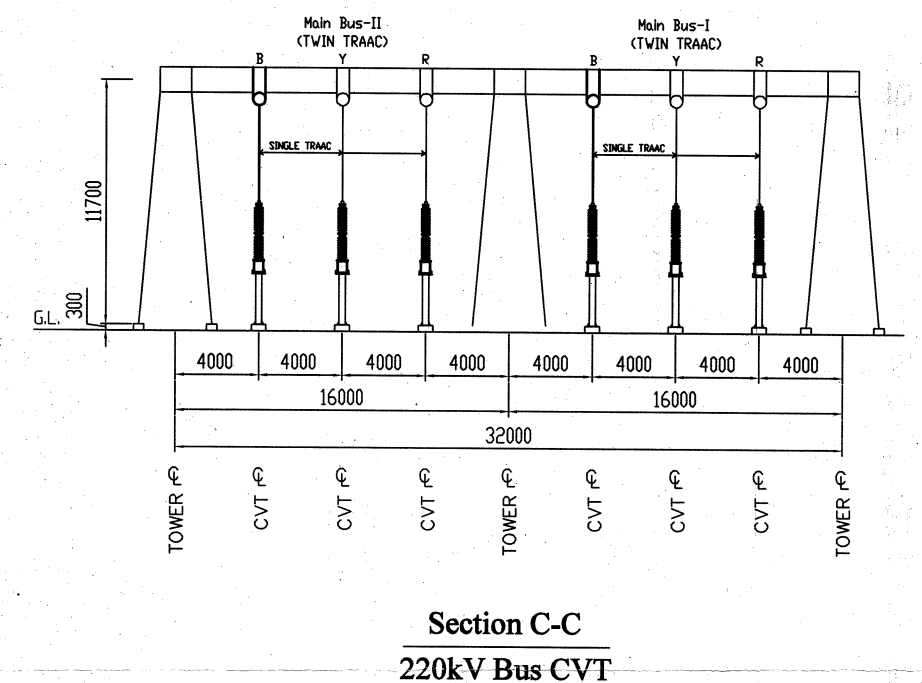
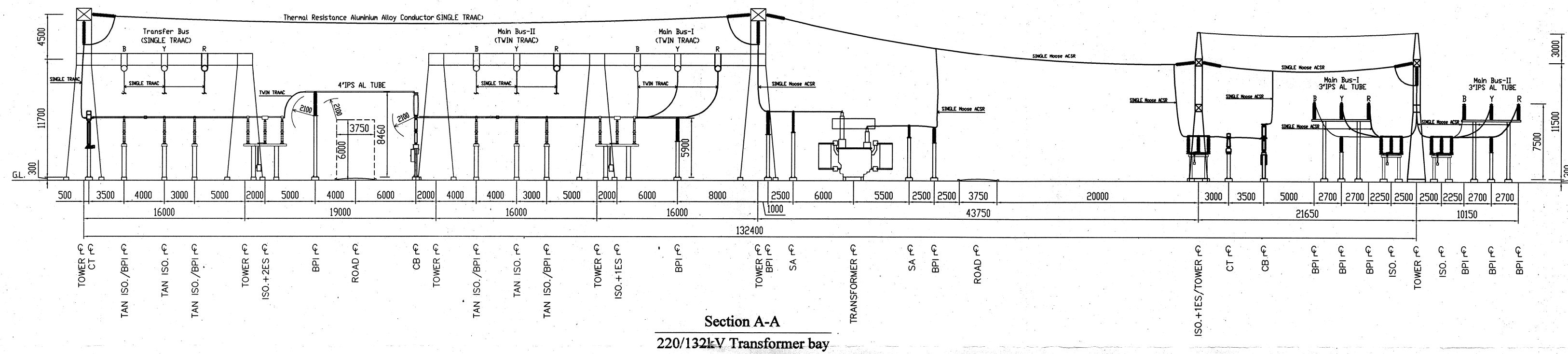
Item	Description	Qty	Symbol
1	Auxiliary Transformer 630kVA, 33/0.4kV	2	
2	Circuit Breaker (3-phase) 1250A, 31.5kA, 1sec.	9	
3	Isolator with One Earth Switches 1250A, 25kA, 3sec. (3-phase)	8	
4	Isolator without Earth Switches 1250A, 25kA, 3sec. (3-phase)	12	
5	Current Transformer (1-phase) 600A, 25kA, with 120% Extended Rating	18	
6	Current Transformer (1-phase) 1200A, 25kA, with 120% Extended Rating	6	
7	Current Transformer (1-phase) 2000A, 25kA, with 120% Extended Rating	3	
8	Potential Transformer 30kV	6	
9	Horn Gap Fuse (3-phase) 33kV	2	
10	Surge Arrester (1-phase) 30kV	30	



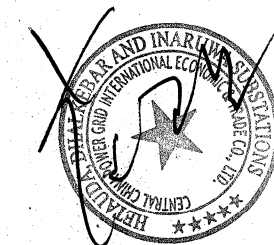
Note:
—— Under present scope
--- Future

DESIGNATION	NAME	SIGNATURE
DRAWN BY	LUREE	
CHECKED BY	FAN JIANYE	
APPROVED BY	WU LEGUO	

2	10-06-2015	THIRD ISSUE OF APPROVAL
1	20-04-2015	SECOND ISSUE OF APPROVAL
0	01-02-2015	FIRST ISSUE OF APPROVAL
REV	DATE	MODIFICATION
NEPAL ELECTRICITY AUTHORITY		
CENTRAL CHINA POWER GRID INTERNATIONAL ECONOMIC & TRADE CO.,LTD		
NIETTP / W / ICB / -2 / SS		
INARUWA SUBSTATION		
SINGLE LINE DIAGRAM		
DRAWING No.	IRW-SS-E-01(01)	



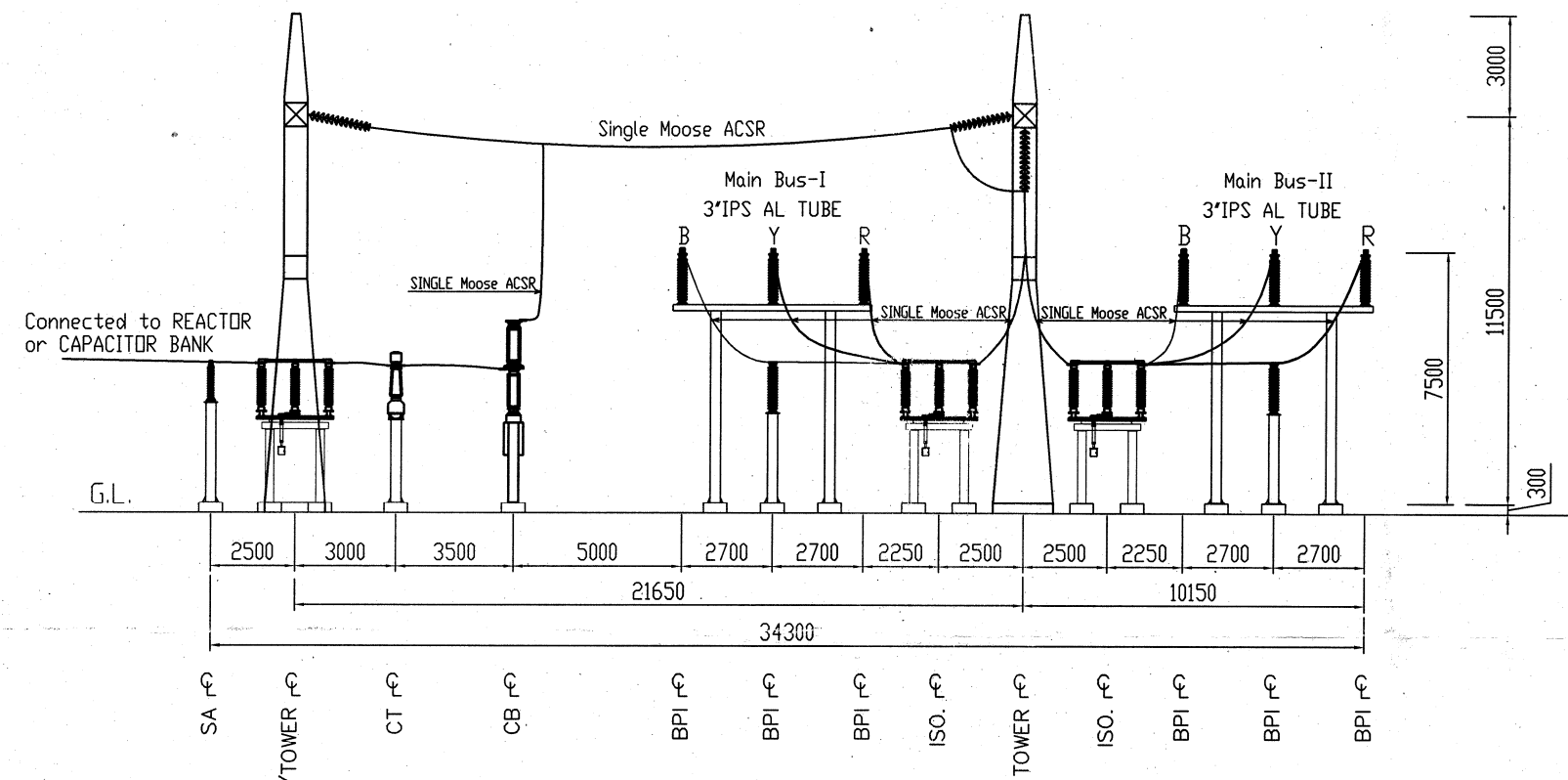
Approved/Released for fabrication/construction.
II. Approved/Released for fabrication/construction
subject to incorporation of comments, modification
as noted. Revised drawing required.
III. To be resubmitted for approval after incorporating
the comments.
IV. For information and record.
V. Not approved.
Nepal Electricity Authority
Nepal India Electricity Transmission & Trade Project



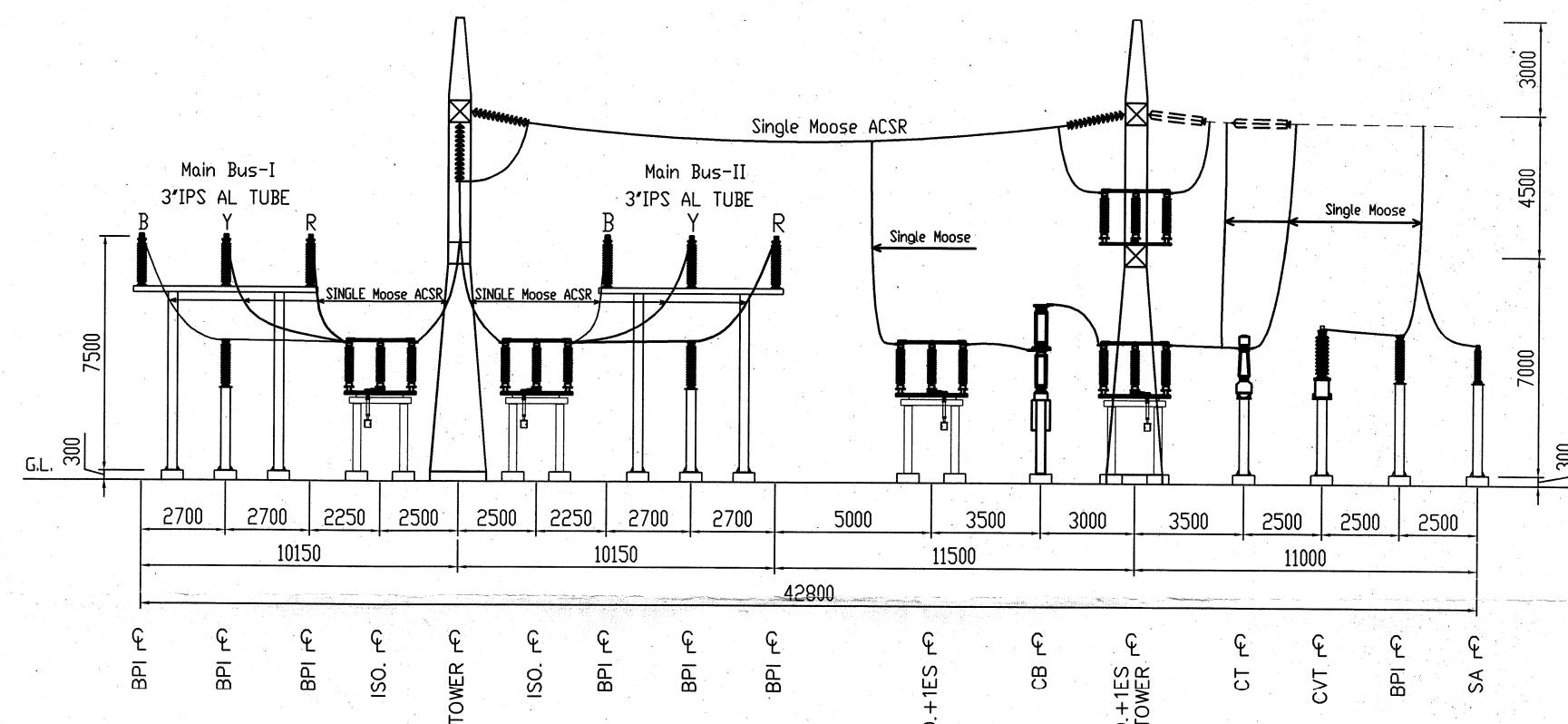
2	10-06-2015	THIRD ISSUE OF APPROVAL
1	12-05-2015	SECOND ISSUE OF APPROVAL
0	01-02-2015	FIRST ISSUE OF APPROVAL
REV	DATE	MODIFICATION
NEPAL ELECTRICITY AUTHORITY		
CENTRAL CHINA POWER GRID INTERNATIONAL ECONOMIC & TRADE CO.,LTD		
NIETTP / W / ICB / -2 / SS		
INARUWA SUBSTATION		
ELECTRICAL LAYOUT SECTION (220kV)		
DRAWING No.	IRW-SS-E-01(03)	

DESIGNATION	NAME	SIGNATURE
DRAWN BY	LUREE	
CHECKED BY	FAN JIANYE	
APPROVED BY	WU LEGUO	

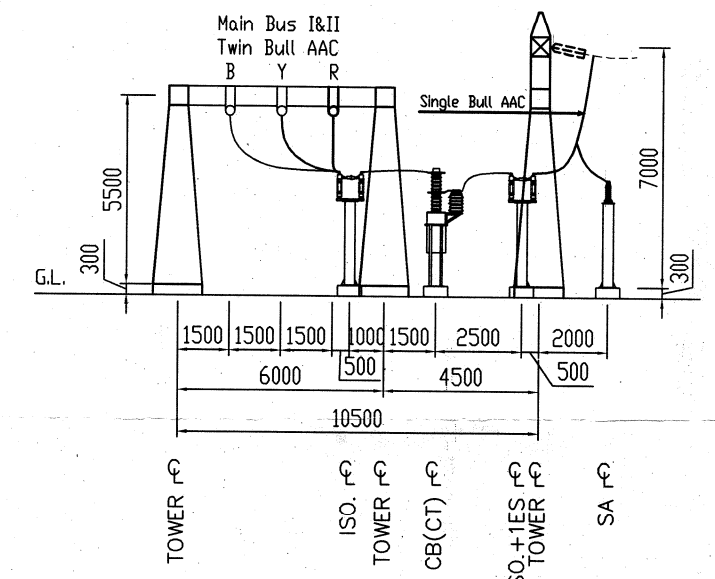
All dimensions are in mm.



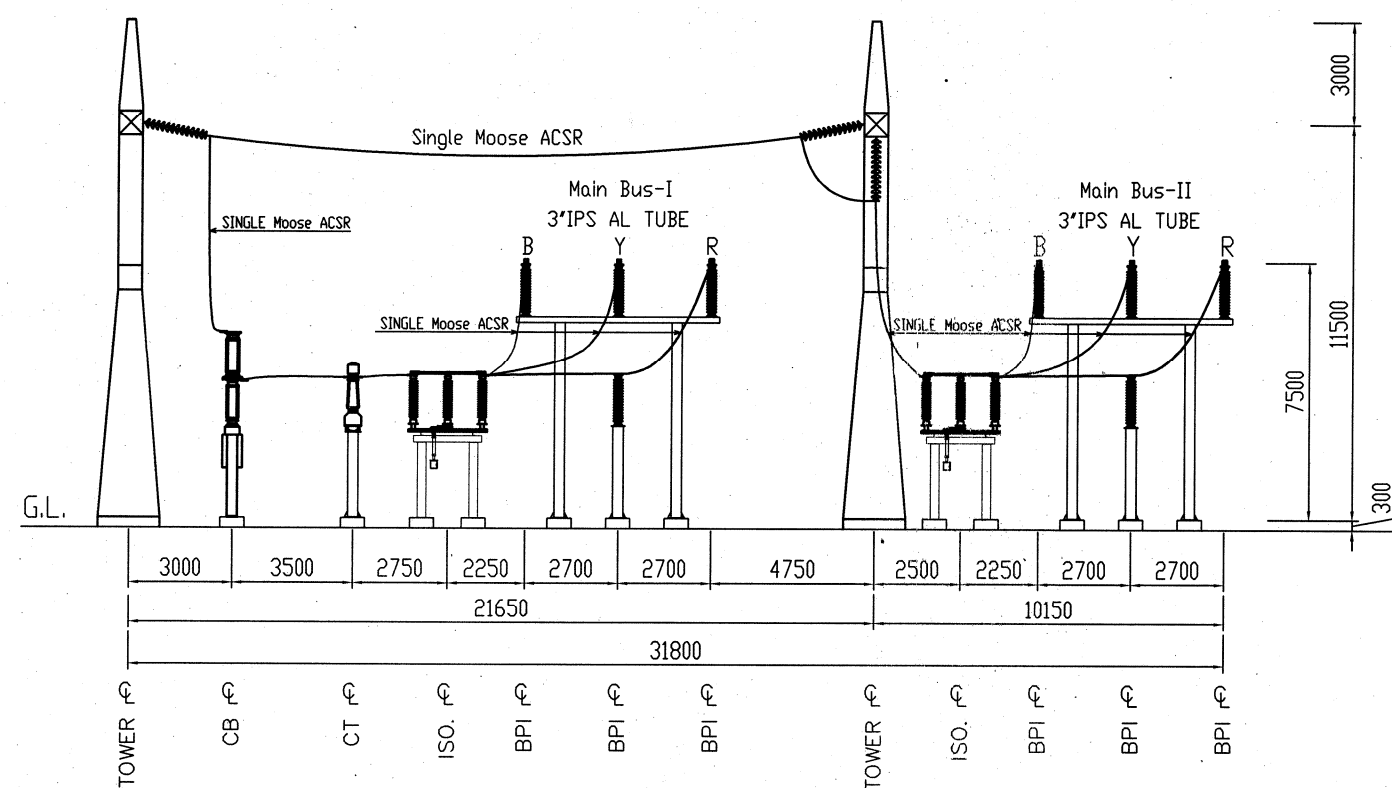
Section G-G
132kV Reactor/Capacitor Bank Bay



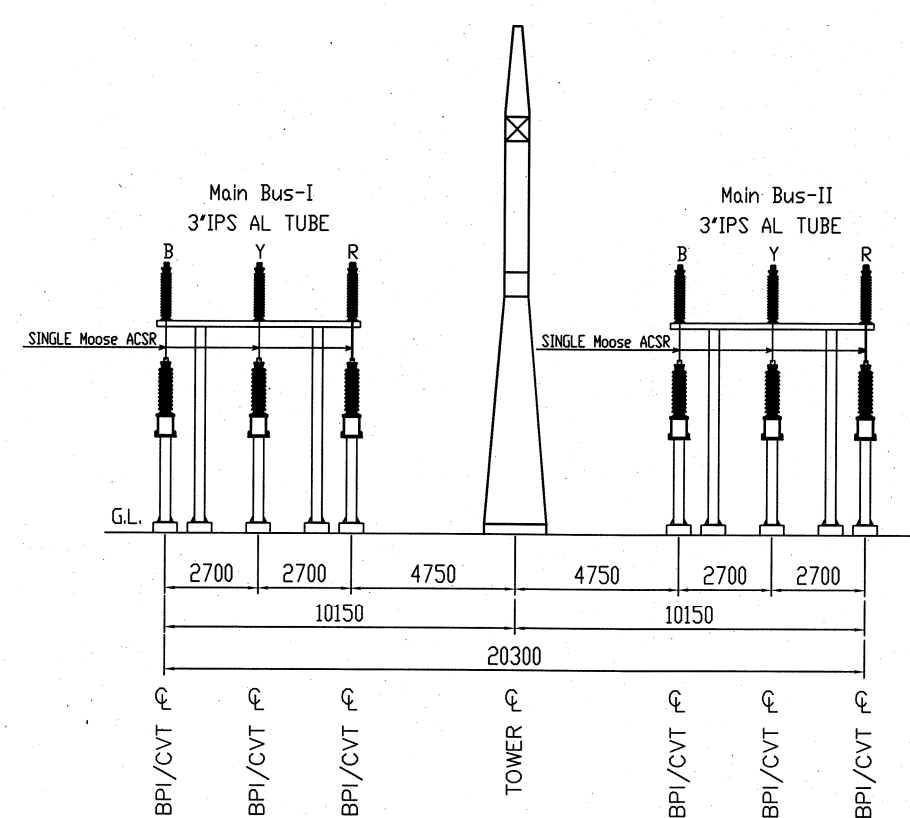
Section H-H
132kV Line Bay



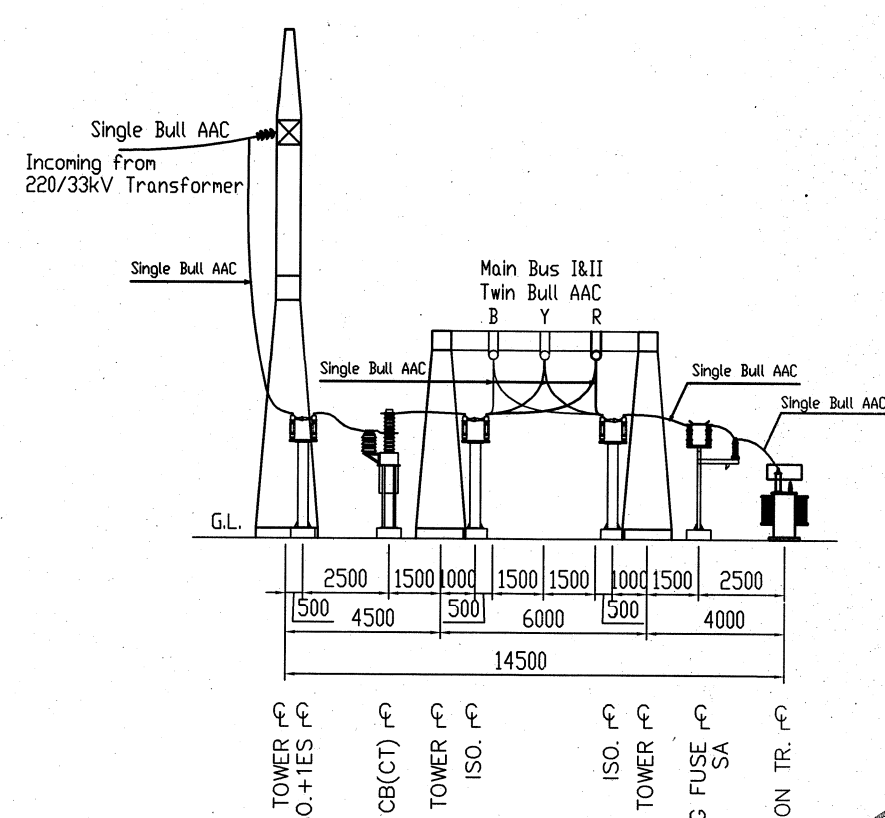
Section M-M
33kV Line Bay



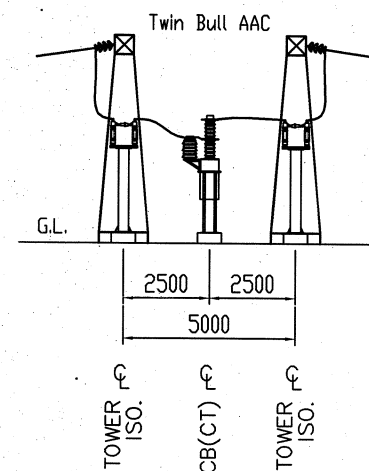
Section I-I
132kV Bus Coupler Bay



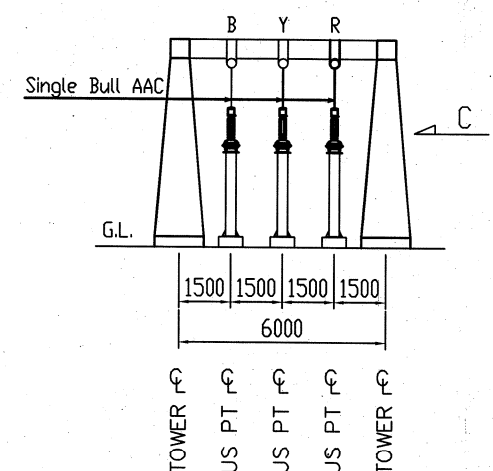
Section J-J
132kV Bus CVT



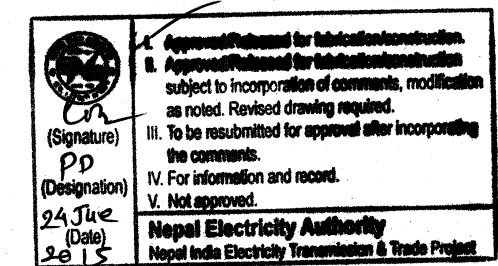
Section K-K
33kV Transformer Bay



Section L-L
33kV SECTIONALIZER



Section N-N
33kV BUS PT



2	10-06-2015	THIRD ISSUE OF APPROVAL
1	12-05-2015	SECOND ISSUE OF APPROVAL
0	01-02-2015	FIRST ISSUE OF APPROVAL
REV	DATE	MODIFICATION



NEPAL ELECTRICITY AUTHORITY



CENTRAL CHINA POWER GRID
INTERNATIONAL ECONOMIC & TRADE CO.,LTD

NIETTP / W / ICB / -2 / SS

INARUWA SUBSTATION

ELECTRICAL LAYOUT SECTION (132 and 33kV)

DRAWING No. IRW-SS-E-01(04)

DESIGNATION	NAME	SIGNATURE
DRAWN BY	LUREE	
CHECKED BY	FAN JIANYE	
APPROVED BY	WU LEGUO	

Note: All dimensions are in mm.