

Electric Equipments List

S.No	LEGEND	NAME	SPECIFICATION	UNIT	QTY	REMARKS
1	⊙	电缆终端头 220 kV CABLE TERMINAL	Y10W-120/295	set	12	
2	⊙	132kV避雷器 132kV LIGHTNING ARRESTER	Y10W-120/295	set	6	
3	⊙	电压互感器 VOLTAGE TRANSFORMER	TV0132/√3-0.01GH 132/√3 0.11/√3 0.11kV	set	6	
4	⊙	电流互感器 CURRENT TRANSFORMER	2×600/1A 0.2s/SP30/SP30/SP30	set	6	
5	⊙	隔离开关 DISCONNECTOR	GW4-14500/1250A 31.5kA/3s with double grounding switches	group	2	
6	⊙	断路器 CIRCUIT BREAKER	LW35-145 1250A 31.5kA/3s	group	2	
7	⊙	隔离开关 DISCONNECTOR	GW4-14500/1250A 31.5kA/3s with single grounding switches	group	2	
8	⊙	隔离开关 DISCONNECTOR	GW4-145/1250A 31.5kA/3s without grounding switches	group	2	
9	⊙	端子箱 TERMINAL BOX	JTW-1	set	2	
10	—	铜芯铝绞线 STEEL CORE ALUMINUM STRANDED WIRE	400mm²	m	300	
11	—	铜绞线 STEEL STRAND	JG1A-80-7	m	250	
12						

NOTES:

- The coordinate system of this drawing is everest 1830.
- Dimensions are in mm, elevation units are in m.
- The ground elevation of line bay extension same as india line bay.
- Legend: existing substation
- The equipments type for reference,the accurate type will be subject to equipment procurement.
- L32 is the point connecting extension line bay and cable tunnel.
- Point A is the bus support center by the India company .

connect to cable tunnel points Axis of L32

L32连接点坐标表		
坐标点	Coordinate (m)	
No.	X	Y
L32	286290.114	82200.765



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Existing 132kV Control Room

**Nepal Electricity Authority**  
(Nepal Government Undertaking)  
UPPER TRISHULI 3A-KATHMANDU 220kV TRANSMISSION  
LINE AND 132kV LINE BAY EXTENSION WORKS  
Contract No. UT3A-04-2066/67

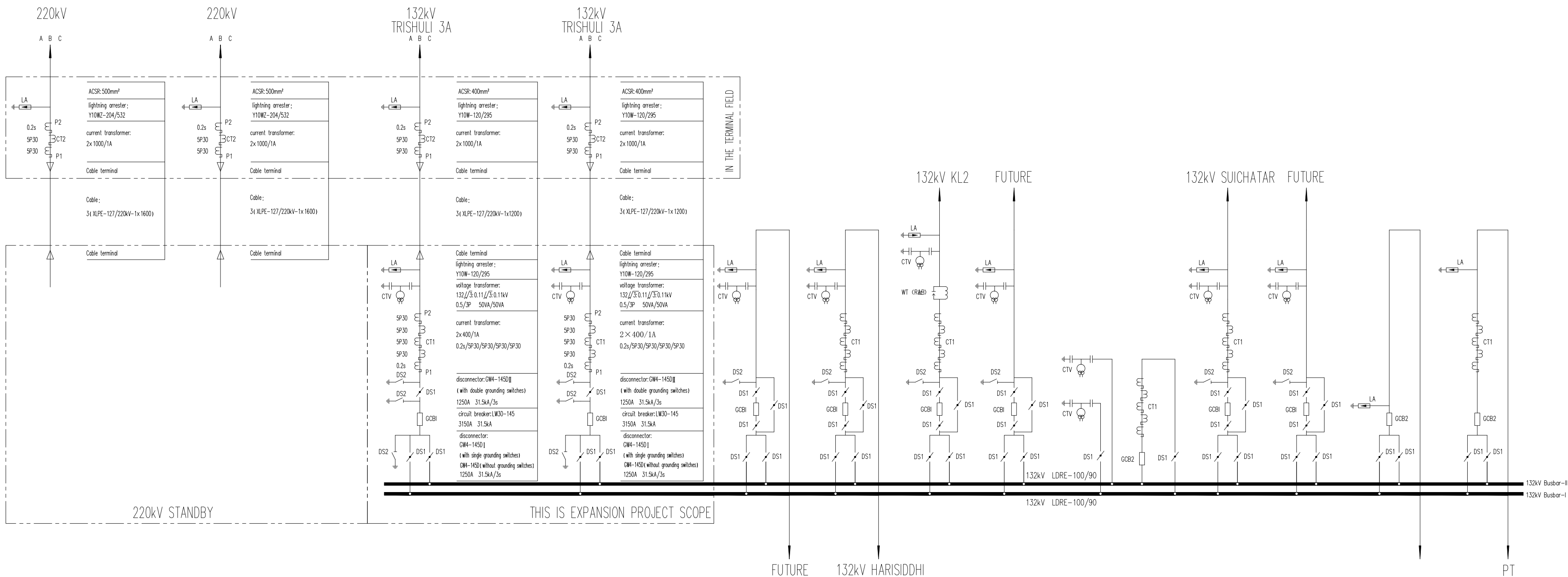
**CONSULTANT**  
NORTHWEST HYDRO CONSULTING ENGINEERS, CHECC

**CONTRACTOR**  
CHINA INTERNATIONAL WATER & ELECTRIC CORPORATION.(CWE)  
CHINA PEARL RIVER WATER RESOURCES PLANNING,  
DESIGNING AND SURVEYING CO.,LTD

APPROVED		SECTION	ELECTRICAL	DESIGN STAGE	DETAIL		
VERIFIED		132kV配电装置总体平面图 132 kV ELECTRICAL EXPANSION INTERVAL ARRANGEMENT PLAN DIAGRAM					
EXAMINED							
CHECKED							
DESIGNED							
SCALE	1:250	DATE	2015.6.11	DWG NO.	NBE-4B-D01-03	REV.	A1







Main Electric Equipments List In The 132kV Line Bay Expansion







S.No	NAME	SPECIFICATION	UNIT	QTY	REMARKS
1	电缆终端头 220kV cable terminal		set	12	
2	避雷器 lightning arrester	Y10W-120/295	set	6	
3	电压互感器 voltage transformer	132/√3 0.11/√3 0.11kV	set	6	
4	电流互感器 current transformer	2x400/1A 0.2s/5P30/SP30/SP30/SP30	set	6	
5	隔离开关 disconnecter	GW4-145DD(W) 1250A 31.5kA/3s	group	2	with double grounding switches 双接地刀
6	断路器 circuit breaker	LW30-145 3150A 31.5kA/3s	group	2	
7	隔离开关 disconnecter	GW4-145D(W) 1250A 31.5kA/3s	group	2	with single grounding switches 单接地刀
8	隔离开关 disconnecter	GW4-145(W) 1250A 31.5kA/3s	group	2	without grounding switches 无接地刀
9	端子箱 terminal box	JXW-1	set	2	relay protection afford 继电保护专业提供

Main Electric Equipments List In The 220kV Cable Terminal Field

S.No	NAME	SPECIFICATION	UNIT	QTY	REMARKS
1	电缆终端头 220kV cable terminal		set	12	
2	避雷器 lightning arrester	Y10W-120/295	set	6	
3	避雷器 lightning arrester	Y10WZ-204/532	set	6	
4	电流互感器 current transformer	2x1000/1A 0.2s/5P30/SP30	set	6	
5	电流互感器 current transformer	2x1000/1A 0.2s/5P30/SP30	set	6	

说明：  
1. 设备型号作为参考,准确的型号将根据设备采购确定。

note:  
1. The equipments type for reference,the accurate type will be subject to equipment procurement.

Engineers Review Stamp Approval Required by: _ _		Submitted <input type="checkbox"/> for Approval; <input type="checkbox"/> for Review	
Approval B	Approval A	Review Status:	
Name : _ _ _ _	: _ _ _ _	<input type="checkbox"/> a : APPROVED	
Date : _ _ _ _	: _ _ _ _	<input type="checkbox"/> b : APPROVED EXCEPT AS NOTED	
Signature : _ _ _ _	: _ _ _ _	<input type="checkbox"/> c : RETURNED FOR CORRECTIONS	
		<input type="checkbox"/> d : NOT APPROVED	
<div><b>Nepal Electricity Authority</b> (Nepal Government Undertaking) UPPER TRISHULI 3A-KATHMANDU 220kV TRANSMISSION LINE AND 132kV LINE BAY EXTENSION WORKS Contract No. UT3A-04-2066/67</div>			
<div><b>CONSULTANT</b> NORTHWEST HYDRO CONSULTING ENGINEERS, CHECC</div>			
<div><b>CONTRACTOR</b> CHINA INTERNATIONAL WATER &amp; ELECTRIC CORPORATION (CWE) CHINA PEARL RIVER WATER RESOURCES PLANNING, DESIGNING AND SURVEYING CO.,LTD</div>			
APPROVED		SECTION	ELECTRICAL
VERIFIED		DESIGN STAGE	DETAIL
EXAMINED		132kV 电气接线图	
CHECKED		132kV ELECTRICAL SINGLE LINE DIAGRAM	
DESIGNED			
SCALE	DATE	2014. 4	DWG NO. NBE-4B-D01-02
			REV. A2



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REFERENCE DRG FOR TENDER PURPOSE

# Substation Colony Distribution System

