



NO.	NAME	TYPE and DISCRPTION	UNIT	QUANTITY	REMARKS	NO.	NAME	TYPE and DISCRPTION	UNIT	QUANTITY	REMARKS
2	1	Hydro-Generator Unit	set	3		5.1	PT	UNE20,(15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.2/0.5/3P,100/100/100VA	set	3*3	
	1.1	Generator	Pe=120MW,Ue=15.75kV,COSΦ=0.85	set	1*3	5.2	Fuse	XRNP 1-20/1	set	3*3	
	1.2	Neutral point CT	LMZB-15,4000/1,5P30/5P30,20/20VA.	set	6*3	5.3	Arrestor	Y5W1-17.5/42	set	3*3	
	1.3	Neutral point CT	LMZB-15,400/1,5P30/5P30,20/20VA.	set	1*3	6	CT		set	27	
	1.4	Neutral earthing cabinet of the generator	earthing transformer (single phase Ue=15kV) , including the disconnector	set	1*3	6.1	Generator circuit CT	LMZB-20,8000/1,0.5/0.2s/0.5/0.5,20/20/20/20VA	set	3*3	
	2	GCB assembly equipment		set	3	6.2	Generator circuit CT	LMZB-20,8000/1,5P30/5P30/TPY20/TPY20,20/20VA	set	3*3	
	2.1	SF6 generator circuit breaker	17.5kV, 63kA, 6300A	set	1*3	6.3	Generator circuit CT	LMZB-20,8000/1,5P30/5P30,20/20VA	set	3*3	
	2.2	Disconnector	17.5kV, 63kA, 6300A	set	1*3	7	IPB		set	3	
	2.3	Earthing switch	17.5kV	set	2*3	7.1	main bus	24V,6300A	three-phase meter		
	3	Equipment of Auxiliary transformer branch		set	3	7.2	branch bus	24kV,1250A	three-phase meter		
1	3.1	High-voltage Auxiliary transformer	DCB11-1250/15,(15.75±2x2.5%)/(13.2/√3)kV,1250kVA,6%,Dyn11,no-load,single phase	set	3*3	8	Exitation equipment		set	3	
	3.2	Circuit breaker	630A,31.5kA	set	1*3	8.1	Exitation transformer	20kV,single phase	set	3*3	
	3.3	FU&FR	200A,80kA	set	1*3	8.2	Exitation circuit CT	LMZB20,8000/1,5P30/5P30,20/20VA;400/1,0.5/0.5/5P30/5P30,20/20/20/20VA	set	3*3	
	3.4	Disconnector	630A	set	1*3	8.3	Exitation circuit CT	LMZB-20,1000/1,5P30/5P30,20/20VA	set	3*3	
	3.5	Current transformer (CT)	20kV,400/1,0.5/0.2s/5P30/5P30,20/20/20/20VA. 3000/1,TPY20/TPY20	set	6*3	9	Main transformer and Auxiliaries				
	4	Protective PT cabinet at Generator outlet		set	3	9.1	Three phase double winding transformer	145MVA,500±8x1.25%/15.75kV,YN,d11	set	3	
	4.1	PT	UNE20,(15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.2/3P/3P,100/100/100VA	set	3*3	9.2	CT in neutral bushing	LRB-110, 100/1,5P30/5P30,20/20VA	set	1*3	
	4.2	PT	UNE20,(15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.5/3P/3P,100/100/100VA	set	3*3	10	500kV outgoing line equipment		set	3	
	4.3	PT	UNE20,(15.75/√3)/(0.11/√3),0.5,50VA	set	6*3	10.1	ZnO arrestor	420kV,20kA,820kV	set	3*3	
	4.4	Fuse	XRNP1-20/1	set	12*3	10.2	Electromagnetic voltage transformer	Ue=500kV,(500/√3)/(0.11/√3)/(0.11/√3)/(0.11)kV,0.2/3P/3P,100/100/100VA	set	3*3	
5	PT and arrestor cabinet		set	3	10.3	CT in GIB	600/1,TPY20/TPY20;200/1,5P30/5P30/0.2S/0.5/5P30/5P30,20/20/20/20/20 VA	set	3*3		

0E	MODIFICACIONES	13-03-2016	BYF	BYF	SJO	LLW
0D	MODIFICACIONES	28-12-2017	BYF	BYF	SJO	LLW
0C	GENERATOR VOLTAGE CHANGE	26-10-2017	BYF	BYF	SJO	LLW
0B	MODIFICACIONES	08-06-2017	BYF	BYF	SJO	LLW
0A	EMISION ORIGINAL	25-03-2017	BYF	BYF	SJO	LLW
REV.	DESCRIPCION	FECHA	PROYECTO	EJECUTO	REVISO	VERIFIC

LISTA DE REVISIONES									
MINISTERIO DE ENERGIA Y MINERIA SECRETARIA DE ENERGIA ELECTRICA SUBSECRETARIA DE ENERGIA HIDROELECTRICA									
 REPRESA BARRANCOSA ELIND-COC-HUATULA		APROVECHAMIENTOS HIDROELECTRICOS DEL RIO SANTA CRUZ CONDOR CLIFF Y LA BARRANCOSA							
Represa LA BARRANCOSA Mechanical & Electrical Works Medium Voltage Electrical Equipments General Single Line Diagram									
NUMERO	FECHA	OTRO							
EAGUO	06-06-2017								
REPRESA, SCL									
			ETAPA, IDIOM						
			200						
FORMA	TITULO	ESCALA	PLANO N°						
ADT	1/1		LB-B.HM-PL.HI-(CM-00-02)-P001						
REVISOR									
DE									

NOTA:

1. Este plano es el adjunto de licitación de transformador principal, el lado BT de transformador unifásico se conecta con la barra aislada, y la corriente nominal de barra aislada es de 8000A, la conexión entre el transformador y barra se definirá en la reunión de coordinación de diseño. El lado AT se conecta a el tubo GIS, y se vincula con la línea aérea 500kV mediante SF6-tubo nangito de aire.
2. El alcance de licitación corresponde al interior del marco punteado.

PLANOS DE REFERENCIA

NOTAS INSPECCION