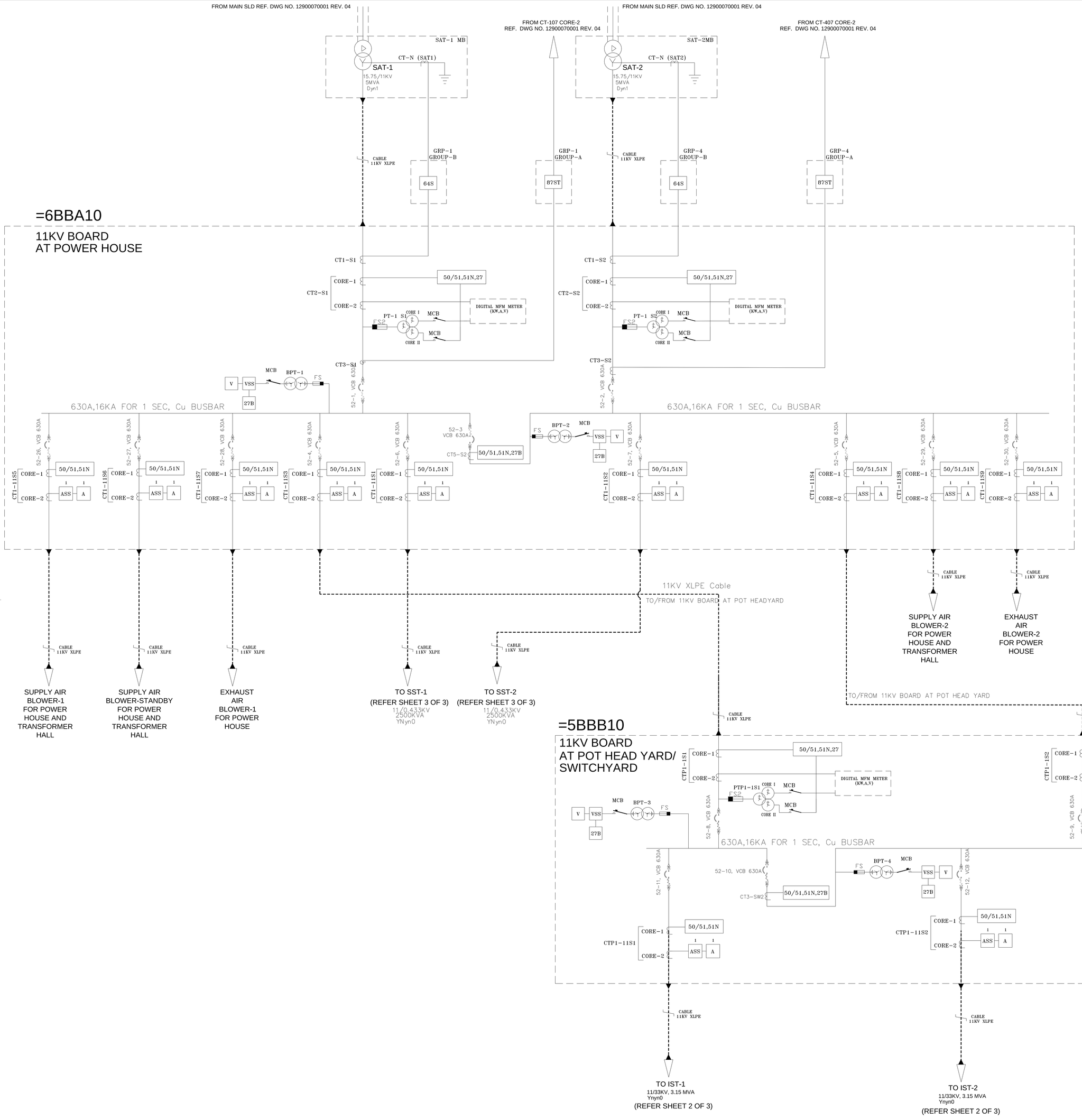
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN "mm")



PT DETAILS:-

NO.		CIRCUIT	RATIO	ACC. CLASS	BURDEN VA
11 KV SYSTEM					
PT-1 S1	CORE-1	METERING	11KV/√3 / 110V/√3 / 110V/√3	0.2/3P	50VA
	CORE-2	PROTECTION		3P	50VA
PT-1 S2	CORE-1	METERING	11KV/√3 / 110V/√3 / 110V/√3	0.2/3P	50VA
	CORE-2	PROTECTION		3P	50VA
PTP1-1S1	CORE-1	METERING	11KV/√3 / 110V/√3 / 110V/√3	0.2/3P	50VA
	CORE-2	PROTECTION		3P	50VA
PTP1-1S2	CORE-1	METERING	11KV/√3 / 110V/√3 / 110V/√3	0.2/3P	50VA
	CORE-2	PROTECTION		3P	50VA
BPT-1		BUS METERING AND U/V PROTECTION	11KV/√3 / 110V/√3	0.2/3P	50VA
BPT-2		BUS METERING AND U/V PROTECTION	11KV/√3 / 110V/√3	0.2/3P	50VA
BPT-3		BUS METERING AND U/V PROTECTION	11KV/√3 / 110V/√3	0.2/3P	50VA
BPT-4		BUS METERING AND U/V PROTECTION	11KV/√3 / 110V/√3	0.2/3P	50VA

SYMBOLS :-

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
FS	FUSE	—	RELAY
	INDICATION LAMP	--	INDICATING METER
BPT	BUS POTENTIAL TRANSFORMER	--	RECORDING METER
CT	CURRENT TRANSFORMER	PT	LINE POTENTIAL TRANSFORMER
SS	SELECTOR SWITCH		VACUUM CIRCUIT BREAKER (VCB)
	DRAWOUT TERMINAL		
	MINIATURE CKT. BREAKER (MCB)		

LEGENDS :-

LEGEND	DESCRIPTION
A	AMMETER
ASS	AMMETER SELECTOR SWITCH
V	VOLTMETER
VSS	VOLTAGE SELECTOR SWITCH
MFM	MULTIFUNCTION METER
FS	FUSE
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER
ACB	AIR CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
SST	STATION SERVICE TRANSFORMER
SAT	STATION AUX. TRANSFORMER
AT	AMMETER TRANSDUCER
VT	VOLTAGE TRANSDUCER

C.T. DETAILS :-

NO.		CIRCUIT	RATIO	ACC. CLASS	BURDEN VA
11 KV SYSTEM					
CT2-S1	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CT2-S2	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CT1-11S1	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S2	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S3	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S4	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S5	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S6	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S7	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S8	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CT1-11S9	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	200/1	5P20	5VA
	CORE-2	METERING	200/1	0.2	5VA
CTP1-1S1	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CTP1-1S2	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CTP1-11S1	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CTP1-11S2	CORE-1	INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
	CORE-2	METERING	300/1	0.2	5VA
CT3-SW2		BUS INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
CT5-S2		BUS INST, IDMT & NEUTRAL O/C & U/V PROTN	300/1	5P20	5VA
CT1-S1		SAT-1 REF. PROTN	300/1	PS	5VA
CT-N (SAT1)		SAT-1 REF. PROTN (NEUTRAL)	300/1	PS	5VA
CT1-S2		SAT-2 REF. PROTN	300/1	PS	5VA
CT-N (SAT2)		SAT-2 REF. PROTN (NEUTRAL)	300/1	PS	5VA
CT3-S1		SAT-1 DIFFERENTIAL PROTN	300/1	PS	5VA
CT3-S2		SAT-2 DIFFERENTIAL PROTN	300/1	PS	5VA

RELAYS :-

DEVICE NO.	DESCRIPTION
27	UNDER VOLTAGE RELAY
27B	UNDERVOLTAGE RELAY (BUS)
50/51/51N	INST, IDMT & NEUTRAL O/C PROTN
64S	RESTRICTED EARTH FAULT PROTECTION (SAT)

NOTE :- 1. SWE PANEL INTERNAL DETAILS AND OTHER RELEVANT DETAILS SHALL BE SHOWN IN SWE DRAWING BP-SWE-SWGR-98005-06 & BP-SWE-SWGR-98005-07.
2. CABLE SIZES SHALL BE FINALIZED DURING DETAIL ENGINEERING.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	HA
		CHECKED	01	20.11.19	CHECKED	SJ
		APPROVED			APPROVED	RMP
					INCORPORATING COMPLIANCE TO CUSTOMER COMMENTS DTD: 28.06.2019 AND HVAC FEEDER RATING PROVIDED BY SWE VIDE EMAIL DTD: 16.11.2019.	

ADDITIONAL INFORMATION					
STATUS OF DRAWING					
DISTRIBUTION OF PRINTS					
	NAME	SIGN	DATE	NO. OF VAR.	
DRWN	HA		08/05/2019		
CHKD	SJ		08/05/2019		
APPD	RMP		08/05/2019		
SUB-SUPPLIER / VENDOR					

PROJECT	ARUN-3 HYDRO ELECTRIC PROJECT, NEPAL (4x 225 MW)
CUSTOMER	SJVN ARUN-3 POWER DEVELOPMENT COMPANY PVT. LTD. (SAPDC LTD.)
CONSULTANT	SJVN LIMITED (A JOINT VENTURE OF GOVT. OF INDIA & GOVT. OF HP)
CONTRACTOR	भारत हेवी इलेक्ट्रिकल्स लिमिटेड, भोपाल Bharat Heavy Electricals Limited, Bhopal

DEPT	HPE	UNTOL. DIMS. GR.	ANGLE	SCALE 1:200	WEIGHT(kg)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEMS
CODE	415							

TITLE: SINGLE LINE DIAGRAM FOR MV SYSTEM (11KV)

DRAWING NO. 32924170001 REV. 01

SHEET NO. 01 NO. OF SHEETS. 03

A1 SIZE

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REF. DRG. NO. | SIGN. & DATE | INVENTORY NO.