

HEEP 11 KV BUS AT 132 KV SS Existing System		SIZE	FSCM NO	DWG NO	REV
DRAWN		WEX/ESX/VCB/01			
ISSUED		SCALE	1:1	SHEET	1 OF 3

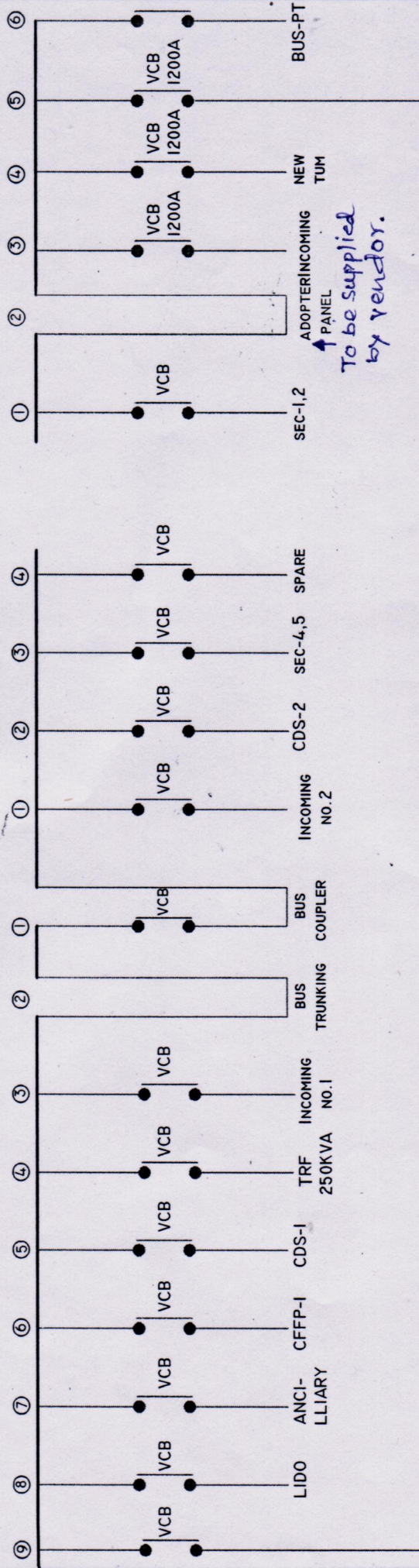
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INCOMING NO.-1 BUS

INCOMING NO.-2 BUS

NEW TUM BUS



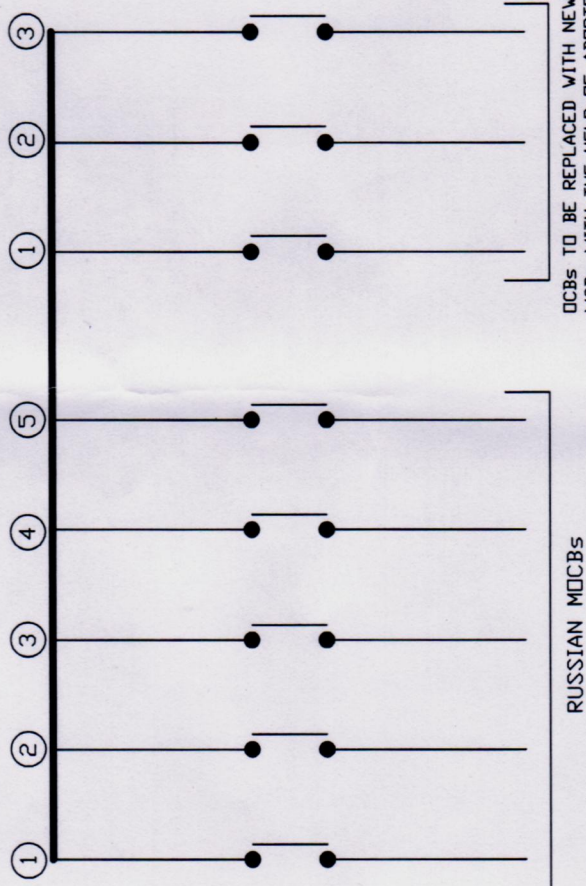
HEEP 11KV SLD AT 132KV SS  
PROPOSED SYSTEM

DRAWN	SIZE	FSCM NO	DWG NO WEX/ESX/VCB/02	REV
ISSUED	SCALE	1:1	SHEET	1 OF 1




157

6.6 kV EXISTING BUS AT 132 KV SS



VCBs TO BE REPLACED WITH NEW  
VCBs WITH THE HELP OF ADAPTER PANEL

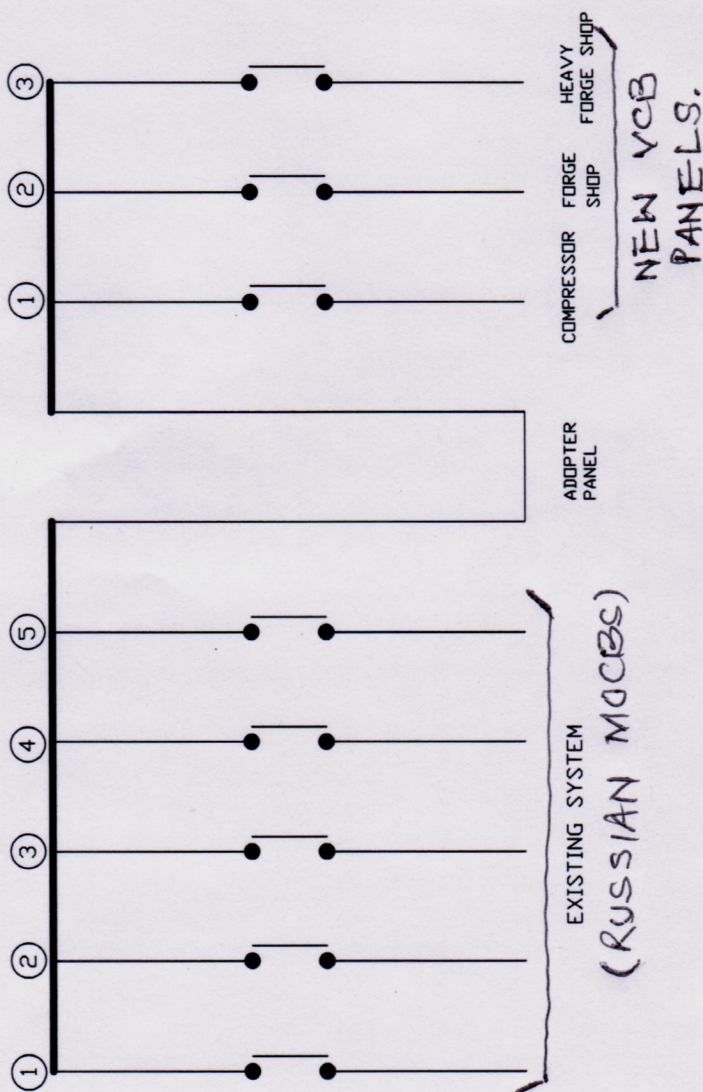
INVENTORY NO.		SIGN & DATE	
GRADE OF UNTOL. DIM.:— M/CG—X/q/M/f AA 0230208 WELDING—A/B/C/D—AA621104 GAS CUTTING—T3'AO621101		CBOM NO. _____ AGREED DEPT. _____ NAME _____ SIGN _____ DATE _____	
REV. DATE	ALTERED CHECKED	REV. DATE	ALTERED CHECKED
DEPT. WEX CODE DESIGN		SCALE 1:1 	
WEIGHT (Kg.) —		DRN M.K.Sarkar CHD APD M.C.Pandey	
REF. TO ASSY. DR0. —		NAME SIGN	
BHARAT HEAVY ELECTRICALS LTD. HARDWAR			
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT			
TITLE EXISTING 6.6 KV BUS AT 132 KV SS		DRAWING NO. WEX/ESX/V/	
—		SHEET NO. 01	






DRAWING NO.  
WEX/ESX/VCB/03

### 6.3/ THE REST

6.6 kV BUS AT 132 kV SS

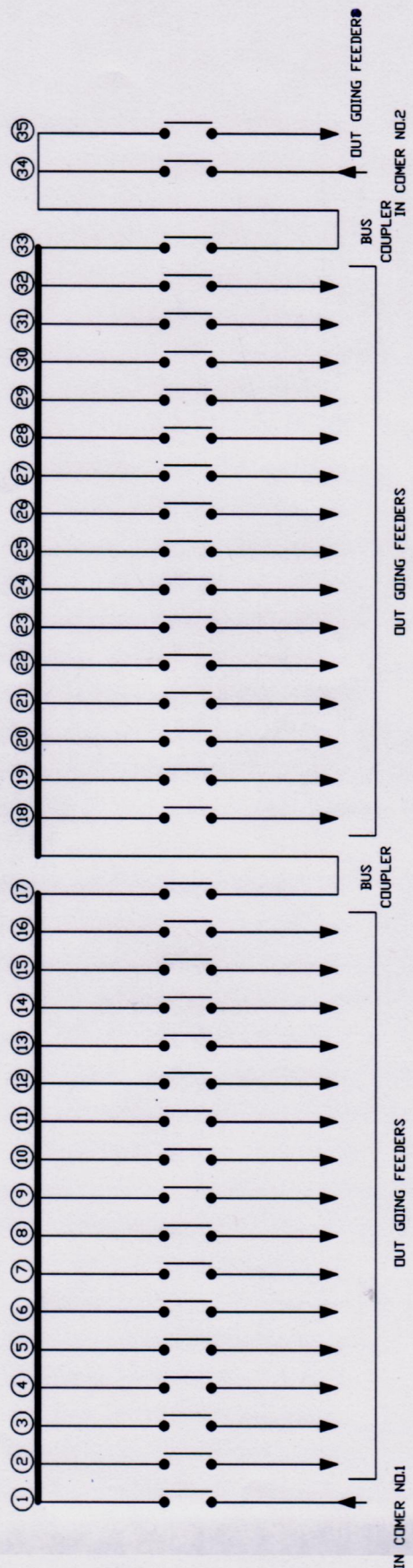


INVENTORY NO.	SIGN & DATE		REV.	DATE	ALTERED	CHECKED	GRADE OF UNTOL. DIM.: - M/CG- X/g/M/f AA 0230208 WELDING-A/B/C/D-AA621104 GAS CUTTING-T3'AA0621101																																																																																																
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3/ THE RESI

# 11kV EXISTING POWER SUPPLY SYSTEM AT CDS



DRAWING NO.  
WEX/ESX/VCB/04

INVENTORY NO.		SIGN & DATE		SAMPLE		REF. DRG NO.	
GRADE OF UNTOL. DIM.:- M/CG- X/12/N/A AA 0230208 WELDING-A/B/C/D-A4621104 GAS CUTTING-T3/A4621101		REV. DATE ALTERED CHECKED		REV. DATE ALTERED CHECKED		REV. DATE ALTERED CHECKED	
CBOM NO.		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		DEPT. WEX	
NAME		SIGN		DATE		CODE/DESIGN	
NAME		SIGN		DATE		SCALE 1:1	
NAME		SIGN		DATE		WEIGHT(Kg.)	
NAME		SIGN		DATE		REF. TO ASSY. DRG.	
NAME		SIGN		DATE		DRAWING NO.	
NAME		SIGN		DATE		WEX/ESX/VCB/04	
NAME		SIGN		DATE		SHEET NO. 01	
NAME		SIGN		DATE		NO. OF SHEETS 01	
NAME		SIGN		DATE		SIZE A2	



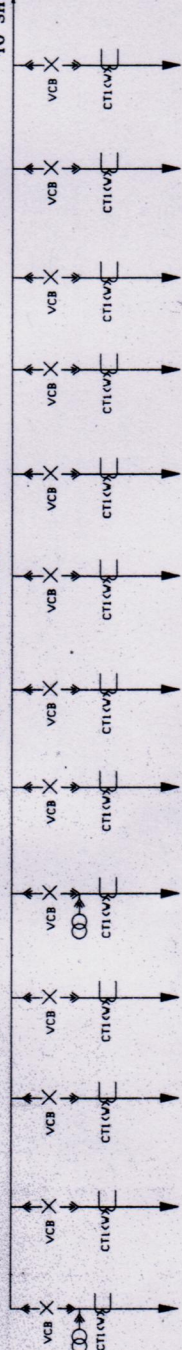
DRG. NO. 2 521 00 5 1862

LEGEND : -

CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER

11kV SWBD AT CDS SUB-STN

TO SHT. NO. 02

[illegible]

TYPE OF PRODUCT :	11 KV TYPE-VM127
NAME OF PROJECT :	M/S BHEL HARDWAR

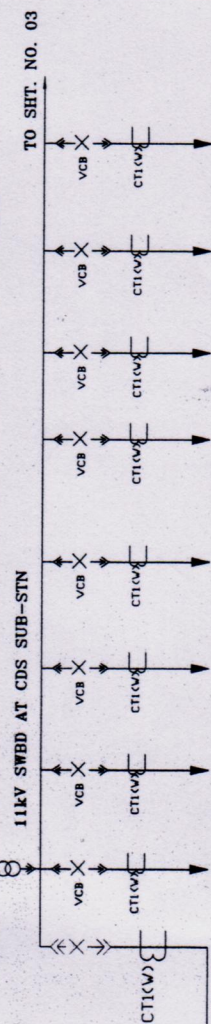
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DRG: NO. 2 521 00 5 1862

FROM SHT.

Legend : --  
CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER



SHIPPING SECTION													
PANEL NO	14	15	16	9	17	18	10	11	12	13	25	14	
MODULE NAME	DC2	DC2	DC2	TCBPT	BC								
UNIT SERIAL NO	9092321	9092322	9092323	9092324	9092325	9092326	9092327	9092328	9092330	9092331	9092332	9092333	
FEEDER CABLE SIZE (SOMH) CU, XLPE	1X3CX120SQ.MM	1X3CX120SQ.MM	1X3CX120SQ.MM	-	-	-	1X3CX120SQ.MM	1X3CX120SQ.MM	1X3CX120SQ.MM	1X3CX120SQ.MM	1X3CX120SQ.MM	1X3CX120SQ.MM	
VCB RATING (AMP'S)	1250A	1250A	1250A	-	-	-	1250A	1250A	1250A	1250A	1250A	1250A	
VERTICAL DROPPER RATING (AMP'S)													
CIRCUIT LABEL DETAILS (MCL)	FEEDER-1 GFFP	SECTOR 5A	NBS-1	TRUNKING CUM BUS-PT	BUS COUPLER	4B(BLOCK-4)	4C(BLOCK-4)	4K(BLOCK-4)	FEEDER-2 (GFFP)	GRI	CDS S/S NO2 NEW ACM S/S MD-E	6C (BLOCK-6)	
INSTRUMENT ARRGT. DRG. NO.													
CTI DETAILS	RATIO	150-75/1-1A	150-75/1-1A	-	-	800-400/1-1A	150-75/1-1A	150-75/1-1A	150-75/1-1A	100/1-1A	150-75/1-1A	150-75/1-1A	
	CORE-I OUTPUT/CLASS	10VA,5P10	10VA,5P10	-	-	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	
	CORE-II OUTPUT/CLASS	10VA,0.5	10VA,0.5	-	-	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	
PT DETAILS	RATIO			11kV / 110V / 3	11kV / 110V / 3								
	OUTPUT/ACCURACY (VDC-I)			100VA,0.5/3P	100VA,0.5/3P								
VOLTMEETER SCALE (KV)													

TYPE OF PRODUCT :	11 KV TYPE-VM127
NAME OF PROJECT :	M/S BHEL HARIDWAR

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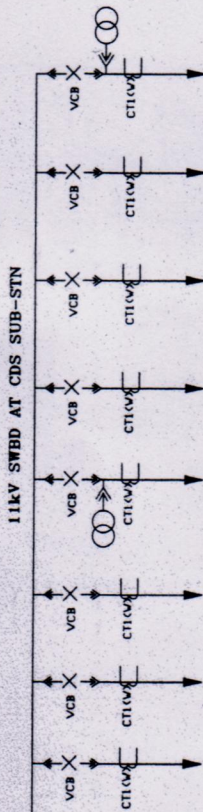


DRG. NO. 2 521 00 5 1862

ALL DIMENSIONS ARE IN mm.

FROM SHT.  
NO. 02 —

CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER



SHIPPING SECTION				15	16	17	18
PANEL NO	27	28	29	30	31	32	33
MODULE NAME	DG2	DG2	DG2	IF3	DG4	DG4	DG5
UNIT SERIAL NO	9092334	9092335	9092336	9092337	9092338	9092339	9092340
FEEDER CABLE SIZE (SQMM)	IX3CX120SQ.MM	IX3CX120SQ.MM	IX3CX120SQ.MM	IX3CX120SQ.MM	IX3CX400SQ.MM	IX3CX400SQ.MM	IX3CX400SQ.MM
VCB RATING (KMP)	1250A	1250A	1250A	1250A	1250A	1250A	1250A
VERTICAL DROPPER RATING (CMPS)							
CIRCUIT LABEL DETAILS (MCL)							
6A (BLOCK-6)							
INSTRUMENT ARRGT. DRG. NO.							
RATIO							
CTI DETAILS	CORE-I	150-75/1-1A	150-75/1-1A	150-75/1-1A	10VA,5P10	10VA,5P10	10VA,5P10
	OUTPUT/CLASS	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10	10VA,5P10
	CORE-II	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5	10VA,0.5
PT DETAILS	RATIO						
	OUTPUT/ACCURACY (VDG-I)						
VOLT METER SCALE (KV)							
0-15KV							

TYPE OF PRODUCT :	11 KV TYPE-VM127
NAME OF PROJECT :	M/S BHEL HARIDWAR
1. NAME OF THE PROJECT :	
2. ADDRESS OF THE PROJECT :	
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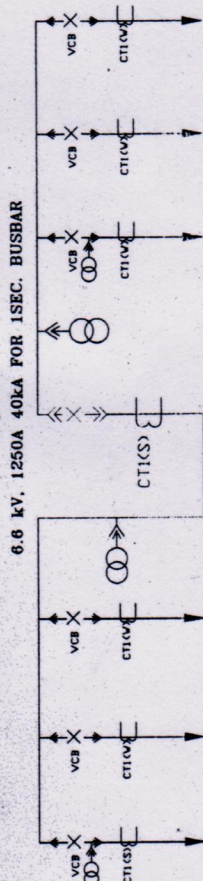






LEGEND : -

CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER



SHIPPING SECTION										
PANEL NO		1	2	3	4	5	6	7	8	9
MODULE NAME		IF-1	OG7	OG7	TCBPT	BC	BPT	INCINER-2	OG7	OG7
UNIT SERIAL NO		9092396	9092397	9092398	9092399	9092400	9092401	9092402	9092403	9092404
FEEDER CABLE SIZE (SQMM) CU. XLPE		6X16X25 SQMMX3CX120 SQMM	6X16X25 SQMMX3CX120 SQMM	6X16X25 SQMMX3CX120 SQMM	-	-	-	6X16X25 SQMMX3CX120SQMM	1-3CX120SQMM	1-3CX120SQMM
VCB RATING (AMPS)		1250A	1250A	1250A	1250A	1250A	1250A	1250A	1250A	1250A
VERTICAL DROPPER RATING (AMPS)										
CIRCUIT LABEL DETAILS (MCL)		INCINER 6.6KV FROM 7.5 MVA TR.	NEW COMP-1	NEW COMP-2	TRUNKING CUM BUSPT PANEL	BUS COUPLER	BUS PT	COMPRESSOR-3	COMPRESSOR-4	COMPRESSOR-2
INSTRUMENT ARRGT. DRG. NO.										
RATIO		800-400/1-1A	100/1-1A	100/1-1A	-	800-400/1-1A		100/1-1A	100/1-1A	100/1-1A
CT1 DETAILS	CORE-I OUTPUT/CLASS	10VA,5P20	10VA,5P20	10VA,5P20	-	10VA,5P20		10VA,5P20	10VA,5P20	10VA,5P20
	CORE-II OUTPUT/CLASS	10VA,0.5	10VA,0.5	10VA,0.5	-	10VA,0.5		-	10VA,0.5	10VA,0.5
PT DETAILS	RATIO	6.6KV/110V/√3	6.6KV/110V/√3	6.6KV/110V/√3	6.6KV/110V/√3			6.6KV/110V/√3	6.6KV/110V/√3	6.6KV/110V/√3
	OUTPUT/ACCURACY (VDG-1)	100VA,0.5/3P	100VA,0.5/3P	100VA,0.5/3P	100VA,0.5/3P			100VA,0.5/3P	100VA,0.5/3P	
VOLT METER SCALE (KV)		0-15KV	0-15KV	0-15KV	0-15KV		0-15KV	0-15KV	0-15KV	

TYPE OF PRODUCT :

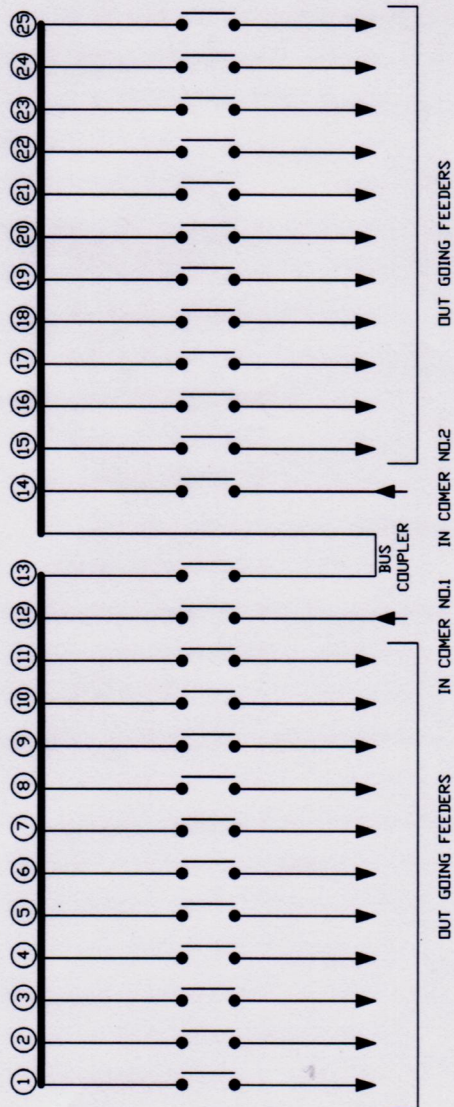
[illegible]



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)

DRAWING NO.  
WEX/ESX/VCB/06**11kV EXISTING POWER SUPPLY SYSTEM AT DS-1**

3/ THE RESI



INVENTORY NO.		SIGN & DATE		REF. DRG NO.		SAMPLE	
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.							
GRADE OF UNTOL. DIM.:—		M/CG—X/E/M/F AA 0230208		WELDING—A/B/C/D—A621104		GAS CUTTING—T3/A0621101	
REV	DATE	ALTERED	CHECKED	REV	DATE	ALTERED	CHECKED
CBOM NO.		NAME		SIGN		DATE	
STATUS OF DRG.		NAME		SIGN		DATE	
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				BHARAT HEAVY ELECTRICALS LTD. HARDWARE			
DRN M.K.Sarkar		NAME		SIGN		DATE	
CHD		NAME		SIGN		DATE	
APD M.C.Pandey		NAME		SIGN		DATE	
WEIGHT (Kg.)		REF. TO ASSY. DRG.		ITEM NO. OF ITEMS		NO. OF SHEETS	
SCALE 1:1		SCALE		SCALE		SCALE	
DEPT. VEX		CODE/DESIGN		DEPT. VEX		CODE/DESIGN	
TITLE		TITLE		TITLE		TITLE	
11kV EXISTING POWER SUPPLY SYSTEM AT DS-1		11kV EXISTING POWER SUPPLY SYSTEM AT DS-1		11kV EXISTING POWER SUPPLY SYSTEM AT DS-1		11kV EXISTING POWER SUPPLY SYSTEM AT DS-1	
DRAWING NO. WEX/ESX/VCB/06		DRAWING NO. WEX/ESX/VCB/06		DRAWING NO. WEX/ESX/VCB/06		DRAWING NO. WEX/ESX/VCB/06	
SHEET NO. 01		SHEET NO. 01		SHEET NO. 01		SHEET NO. 01	
NO. OF SHEETS 01		NO. OF SHEETS 01		NO. OF SHEETS 01		NO. OF SHEETS 01	
SIZE A2		SIZE A2		SIZE A2		SIZE A2	

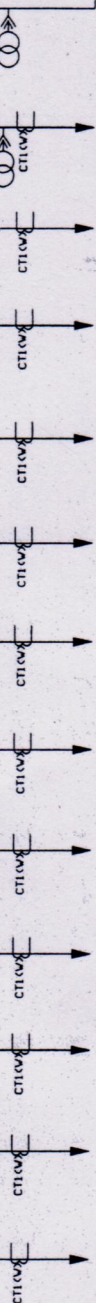


ALL DIMENSIONS ARE IN mm.

DRG. NO.	2 521 00 5 1863
	2

LEGEND : -

CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER

[illegible]

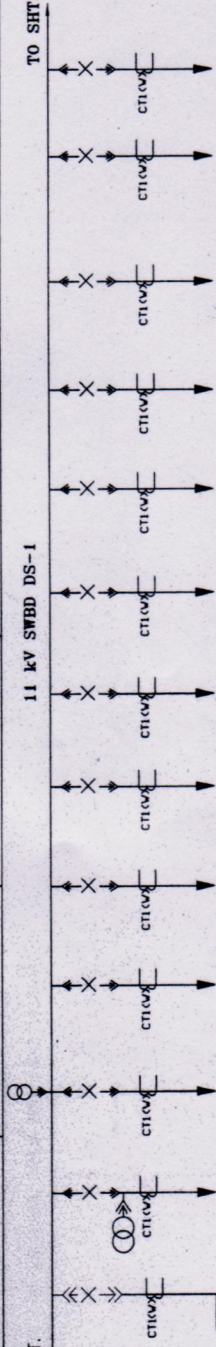
TYPE OF PRODUCT :	11 KV TYPE-VM127
NAME OF PROJECT :	M/S BHEL HARIDWAR
1. NAME OF PROJECT :	
2. ADDRESS :	
3. CITY :	
4. STATE :	
5. PIN CODE :	
6. PHONE NO. :	
7. FAX NO. :	
8. E-MAIL ADDRESS :	
9. NAME OF THE PERSON TO WHOM THE ORDER IS TO BE SENT :	
10. DESIGNATION :	
11. SIGNATURE :	
12. DATE :	

[illegible]



FROM SHT.  
ND. 01

FROM SHIT.  
NO. 01

[illegible]

TYPE OF PRODUCT :	11 KV TYPE-VM127
NAME OF PROJECT :	M/S BHEL HARIDWAR

[illegible]

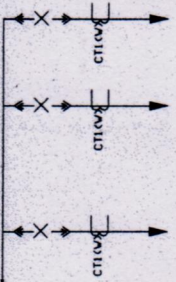


8

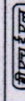
FROM SHT. 11 kV, 1250A, 25kA FOR 1SEC. BUS DS-1

**LEGEND : -**

CT1 - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER



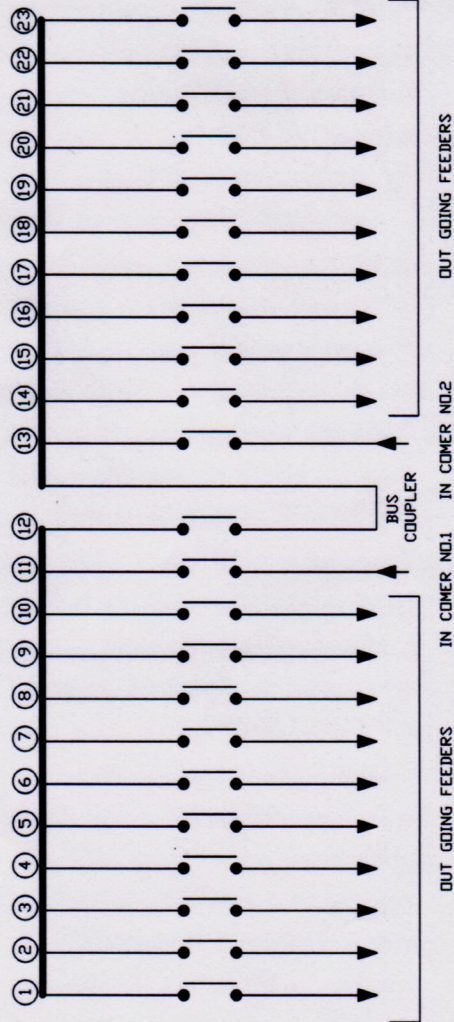
SHIPPING SECTION			14	15
PANEL NO	27	28	29	
MODULE NAME	0G2	0G2	0G2	
UNIT SERIAL NO	9092368	9092369	9092370	
FEEDER CABLE SIZE (SQMM)	X3CX120SQMM	X3CX120SQMM	X3CX120SQMM	
VCB RATING (AMPS)	1250A	1250A	1250A	
VERTICAL DROPPER RATING (AMPS)				
CIRCUIT LABEL DETAILS (MCL)	BAY-2 EXTN. (BLOCK-1)	IN-1	(800MMV)	IN-2(800MMV)
INSTRUMENT ARRGT. DRG. NO.				
CT1	150-75/1-1A	150-75/1-1A	150-75/1-1A	
DETAILS	CORE-I OUTPUT/CLASS	10VA,5P10	10VA,5P10	10VA,5P10
	CORE-II OUTPUT/CLASS	10VA,0.5	10VA,0.5	10VA,0.5
PT				
DETAILS	RATIO			
	OUTPUT/ACCURACY (V/DG-I)			
	VOLTMETER SCALE (KV)			

SIGN &		TYPE OF PRODUCT : NAME OF PROJECT :														11 KV TYPE-VM127 M/S BHEL HARDWAR														
INVENTORY NO.	REV	DATE	ALTERED CKD. APPD.	REV	DATE	ALTERED CKD. APPD.	DRAWN CKD	NAME V.D.	SIGN. -Sd-	DATE 09.08.10	<div></div> <div>BHARAT HEAVY ELECTRICALS LIMITED BHO PAL</div>														CARD CODE	REV. NO.				
	ZONE																									02				
	ZONE				ZONE			APPD	S.C.	-Sd-	09.08.10	KEY DIAGRAM FOR 11 KV DS-1 SWITCHBOARD														NO.OF SHEETS	03			
											DISTRIBUTION OF PRINTS		DEPT.	CODE															NO.OF SHEET NO.	03
											CUSTOMER -4	OC -1	SWE	409	SCALE	W.O.NO.	DRG.	2 521 00 5 1863												
											ENGR. TEST -1	SWGR SHOPS -2			W.O. NO :- 99028 A 476 02	NO.														
											SWGR. TCX -1	SWGR.TCX -1																		



DRAWING NO.  
WEX/ESX/VCB/07**11kV EXISTING POWER SUPPLY SYSTEM AT DS-2**

3/ THE REST



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SAMPLE

REF. DRG NO.

SIGN &amp; DATE

INVENTORY NO.

GRADE OF UNTOL DIM. :-		CBOM NO.		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT	
M/CO- X/B/N/A	AA 0230208	NAME	SIGN	DATE	NAME	SIGN	DATE
WELDING-A/B/C/D	-AA621104	BHARAT HEAVY ELECTRICALS LTD.		BHARAT HEAVY ELECTRICALS LTD.			
GAS CUTTING-T3/A0621101		WELDING-A/B/C/D		WELDING-A/B/C/D			
REV. DATE	ALTERED	REV. DATE		ALTERED		REV. DATE	
CHECKED	CHECKED	CHECKED		CHECKED		CHECKED	
TITLE		DEPT. WEX		SCALE		WEIGHT (Kg.)	
11kV existing power supply system AT DS-2.		1:1		1:1		1:1	
DRAWING NO.		WEX/ESX/VCB/07		DRAWING NO.		WEX/ESX/VCB/07	
SHEET NO.		01		SHEET NO.		01	
NO. OF SHEETS		01		NO. OF SHEETS		01	



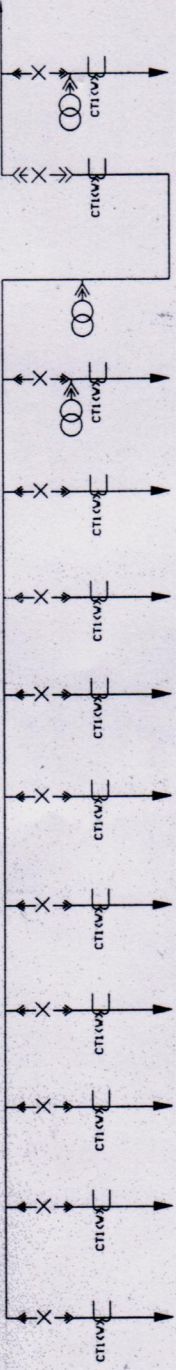
DRG. NO. 2 521 00 5 1864

ALL DIMENSIONS ARE IN mm.

11 kV, 1250A, 25kA FOR 1SEC. BUS DS-2

TO SHT. NO. 02

CTI - CURRENT TRANSFORMER  
FPT - POTENTIAL TRANSFORMER  
VCB - VACUUM CIRCUIT BREAKER



SHIPPING SECTION													
PANEL NO	1	2	3			4			5	6	11	12	13
MODULE NAME	DG2	DG2	DG2	DG2	DG2	DG2	DG2	DG2	DG2	IF1	TCBPT	BC	IF2
UNIT SERIAL NO	9092371	9092372	9092373	9092374	9092375	9092376	9092377	9092378	9092379	9092380	9092381	9092382	9092383
FEDER CABLE SIZE (SOMH) CU XLPE	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	IX3CXI20SQ.MM	-	-	4X3CXI400SQ.MM
VCB RATING (AMPS)	1250A	1250A	1250A	1250A	1250A	1250A	1250A	1250A	1250A	1250A	-	-	1250A
VERTICAL DROPPER RATING (AMPS)													
CIRCUIT LABEL DETAILS (MCL)	MAIN HOSPITAL	NBS-2	3C (BLOCK-3)	3A (BLOCK-3)	3E (BLOCK-3)	2F-2X(BLOCK-2)	3K (BLOCK-3)	2D (BLOCK-2)	INCORNER NO.2 FROM CDS	INCORNER NO.1 FROM CDS	BUS COUPLER		
INSTRUMENT ARRCT. DRG. NO.	RATIO	150-75/1-1A	150-75/1-1A	150-75/1-1A	150-75/1-1A	150-75/1-1A	150-75/1-1A	150-75/1-1A	400-200-100/1-1A	400-200-100/1-1A	-		
CTI DETAILS	CORE-I OUTPUT/CLASS	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	10VA.SP10	-	10VA.SP10	10VA.SP10
	CORE-II OUTPUT/CLASS	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	10VA.0.5	-	10VA.0.5	10VA.0.5
PT DETAILS	RATIO								11KV / 110V	11KV / 110V			11KV / 110V
	OUTPUT ACCURACY (VDIG-1D)								100VA.0.5/3P	100VA.0.5/3P			100VA.0.5/3P
VOLTMETER SCALE (KV)									0-15KV	0-15KV			0-15KV

11 KV TYPE-VM127  
M/S BHEL HARIDWAR

TYPE OF PRODUCT :  
NAME OF PROJECT :

**BHARAT HEAVY ELECTRICALS LIMITED**  
**BHOPAL**

# KEY DIAGRAM FOR 11 KV DS-2 SWITCHBOARD

NO.	W.O. NO	DRG. NO.
99028	476 02	2 521 00 5 1864

	NAME	SIGN.	DATE
DRAWN	V.D.	-Sd-	09.08.10
CKD	V.D.	-Sd-	09.08.10
APPD	S.C.	-Sd-	09.08.10

DISTRIBUTION OF PRINTS	
CUSTOMER	-4 OC - 1
ENGR.	-1 SWGR.SHOPS-2
SWGR. TEST	-1 SWGR.TCX -1

REV	DATE	ALTERED	V.D.
01	16.10.10	CKD.	V.D.
		APPD.	S.C.
ZONE	DRAWING IS REVISED AS PER COMMENT OF BHEL HARIDWAR DATED 28.09.10		

REV	DATE	ALTERED	V.D.
02	16.11.10	CKD.	V.D.
		APPO.	S.C.
ZONE	DRAWING IS REVISED AS PER DISCUSSIONS WITH BHEL HARIWAR DATED 16.11.10		

REV	DATE	ALTERED
		CKD.
		APPD.
ZONE		