

<b>PROJECT</b>	2X800 MW GADARWARA STPP
<b>PACKAGE</b>	BUS DUCT
<b>SUBJECT</b>	REPLY SHEET FOR Erection Key diagram of Segregated Phase Busduct (Unit-2)
<b>BHEL DOC NO</b>	RU-BDE-572-15, R02
<b>NTPC DOC NO</b>	9572-207-PVE-E-112, R02
<b>REFERENCE</b>	Trasnmittal no: CC:PE207:20171 dated 13.11.2015

<b>Sr. No.</b>	<b>N.T.P.C Comment</b>	<b>BHEL Reply</b>
1	It is understood that outdoor & indoor portion enclosure dimensions are different for BD-10 in line with BD-09. Same to be corrected showing flange to flange connection of outdoor & indoor portion.	Corrected
2	As far as possible total BOM length shall equal to length derived from layout (flange to flange) . Same to be checked & corrected.	Checked & corrected. This may also be noted that there may be difference in the BOM length and flange to flange length maximum 9 mm due to gasket.
3	Separate breather Assy to be provided for outdoor & indoor portions.	Revised as commented.
4	mention Indoor/outdoor Portion.	Revised as commented.
5	Comments applicable in sheet-1 is also applicable to this sheet.	Revised as commented.

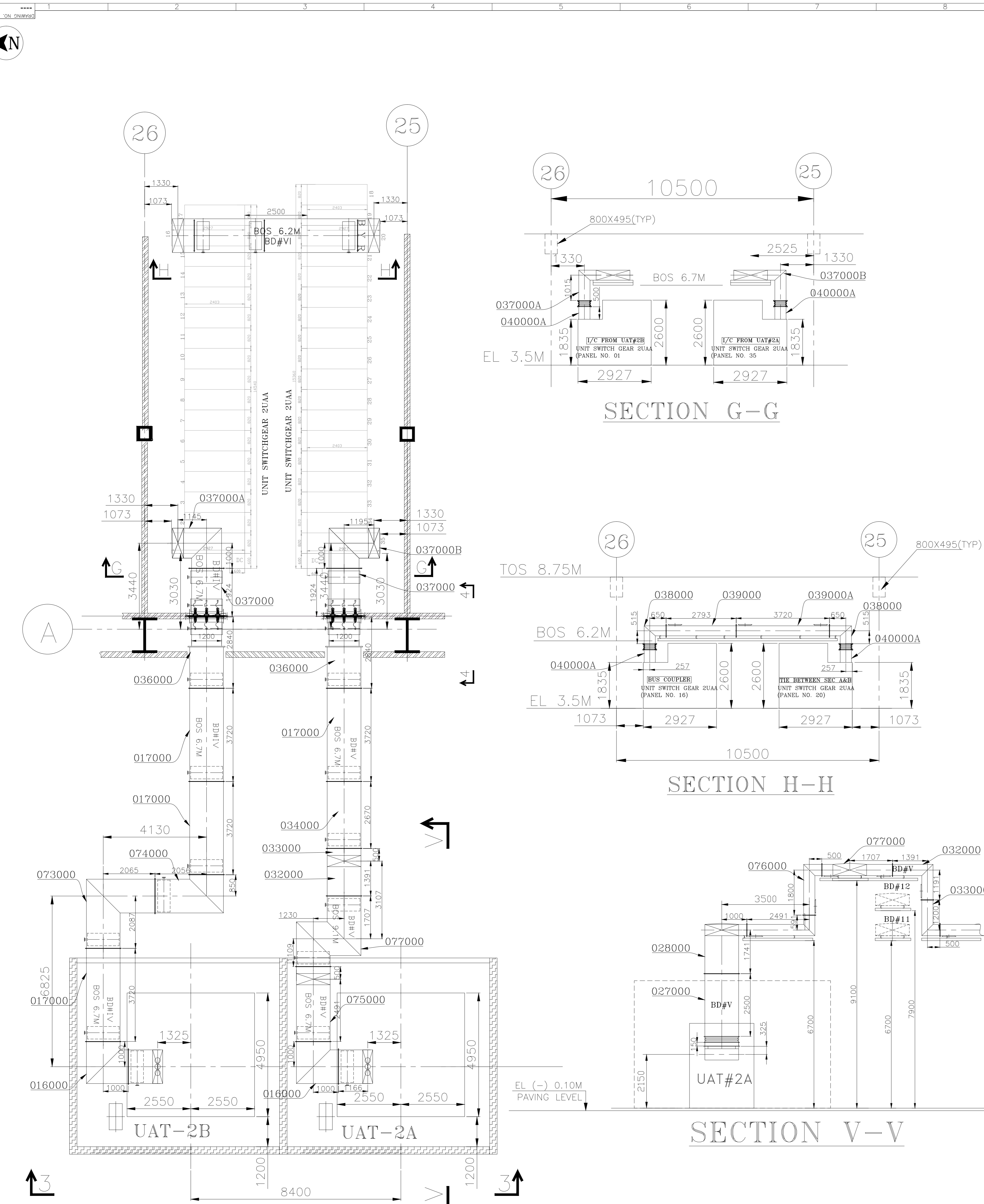


S.NO.	B.O.M	BUSDUCT DETAILS			BD-IV		BD-V		BD-VI		REMARK			
		BREAK UP	TOTAL	90° Bend	No. Of BD	Total Length	No. Of BD	Total Length	No. Of BD	Total Length				
1	026000	150+9	159	00	01	159	00	01	159	00	00	00	00	UAT HOOD
2	027000	9+2500	2509	00	01	2509	00	01	2509	00	00	00	00	UAT TERMN. (Canopy)
3	028000	9+1732+1166	2907	01	01	2907	01	01	2907	01	00	00	00	Canopy
4	073000	9+2087+2065	4161	01	01	4161	01	00	00	00	00	00	00	Canopy
5	032000	9+1391+1191	2591	01	00	00	00	01	2591	01	00	00	00	Canopy
6	033000	9+1200+500	1709	01	00	00	00	01	1709	01	00	00	00	Canopy
7	034000	9+2670	2679	00	00	00	00	01	2679	00	00	00	00	Canopy
8	074000	9+2056+850	2915	01	01	2915	01	00	00	00	00	00	00	Plain+Canopy
9	036000	9+2840	2849	00	01	2849	00	01	2849	00	00	00	00	Plain
10	037000	9+1924	1933	00	01	1933	00	01	1933	00	00	00	00	Plain
11	037000A	9+1000+1145+1015	3169	02	01	3169	02	00	00	00	00	00	00	Plain
12	037000B	9+1000+1195+1015	3219	02	00	00	00	01	3219	00	00	00	00	Plain
13	038000	9+515+650	1174	01	00	00	00	00	00	00	02	2348	02	Plain
14	039000	9+2793	2802	00	00	00	00	00	00	00	01	2802	00	Plain
15	39000A	9+3720	3729	00	00	00	00	00	00	00	01	3729	00	Plain
16	040000A	9+491	500	00	01	500	00	01	500	00	02	1000	00	SWR HOOD
17	016000	9+1000+1000	2009	01	01	2009	01	01	2009	01	00	00	00	Canopy
18	017000	9+3720	3729	00	03	11187	00	01	3729	00	00	00	00	Canopy
19	075000	9+2491+591	3091	01	00	00	00	01	3091	01	00	00	00	Canopy
20	076000	9+1800+500	2309	01	00	00	00	01	2309	01	00	00	00	Canopy
21	077000	9+1109+1230+1707	4055	02	00	00	00	01	4055	02	00	00	00	Canopy
22	420200A	8	8	00	01	08	00	01	08	00	00	00	00	WALLFRAME WITH SOB (400X1200)
23	600200	250	250	00	01	250	00	01	250	00	00	00	00	(R.BELLOW)450X1350
23	600200B	250	250	00	01	250	00	01	250	00	02	500	00	(R.BELLOW)400X1200
<b>TOTAL</b>					<b>34806</b>	<b>6</b>	<b>TOTAL</b>	<b>36756</b>	<b>8</b>	<b>TOTAL</b>	<b>10379</b>	<b>2</b>		

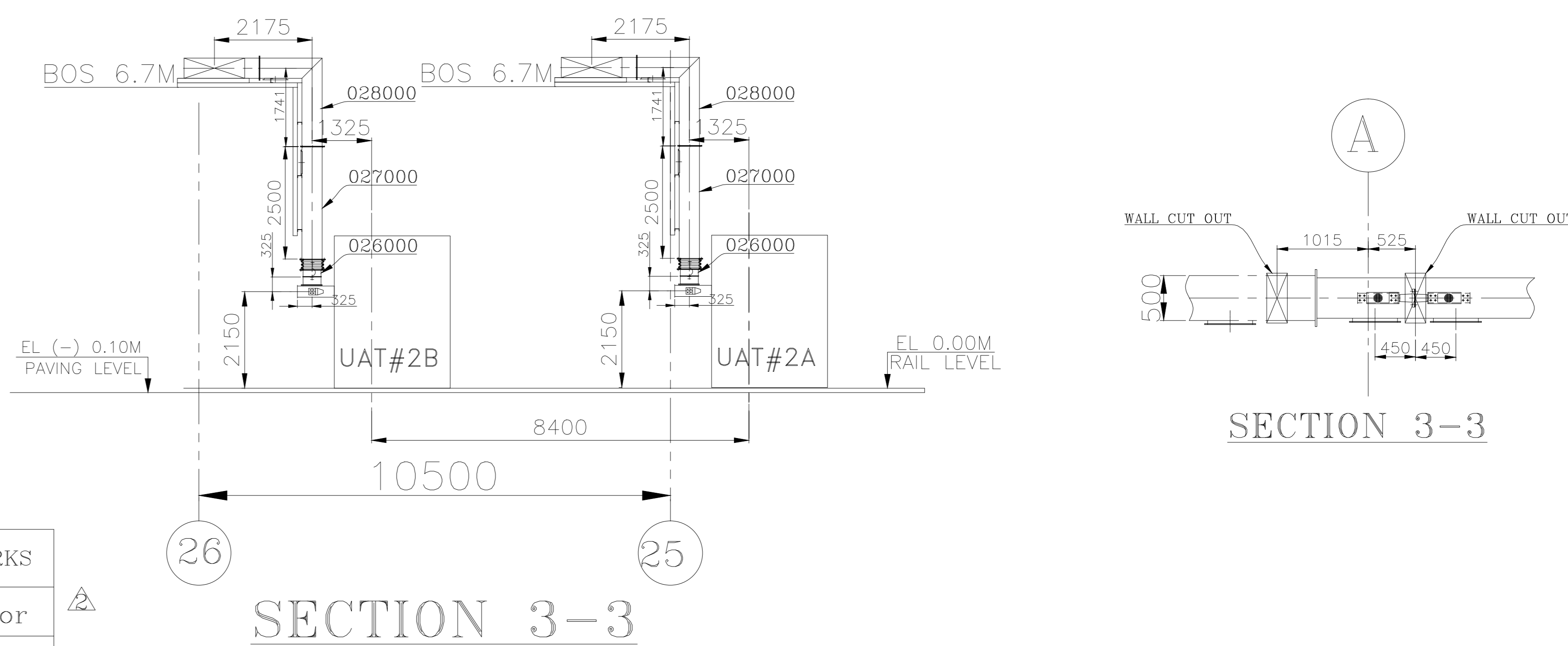
BILL OF MATERIALS				
NAME OF ITEMS	UNIT	3.3KV / 2750A		
		BD-IV	BD-V	BD-VI
LENGTH OF BUSDUCT	mm	34806	36756	10379
NO. OF BUSDUCT	No.	13	15	06
90° BEND	No.	06	08	02
SWGR. TERMINATION	No.	1	1	02
TRF. TERMINATION	No.	1	1	NIL
PHASE X-OVER	No.	NIL	NIL	YES
TEE CONNECTIONS	No.	NIL	NIL	NIL
WALL FRAME ASSY.	No.	1	1	NIL

BILL OF MISCELLANEOUS MATERIALS				
NAME OF ITEMS	UNIT	3.3KV / 2750A		
		BD-IV	BD-V	BD-VI
NO. OF SWGR HOOD	No.	01	01	02
NO. OF TRF HOOD	No.	01	01	NIL
NO. OF RUBBER BELLOW	No.	01	01	00
BREATHER ASSY.	Set	02	02	1
SPLICE PLATE ASSY.	Set	09	11	03
AL STRIP FLEXIBLE ASSY.	Set	02	02	02
RAIN HOOD	No.	07	14	NIL
SEAL OF BUSHING	No.	06	06	06
RUBBER BELLOW (400)	No.	01	01	02

BD-IV : 4650+2175+6825+4130+14115+1145+1765 = 34805  
 BD-V : 4650+2175+3500+2400+1618+1230+3107+2400+12715+1195+1765 = 36755  
 BD-VI : 1265+7840+1265 = 10370



SL.NO	BUSDUCT ROUTE BETWEEN		KV	Amps.	ENCLOSURE SIZE	CONDUCTOR SIZE	REMARKS
BD-IV	UAT-2A	UNIT SWITCHGEAR 2UAA	3.3	2750	1200x400	2x127	Indoor
		UNIT SWITCHGEAR 2UAB			1350x450	2x127	Outdoor
BD-V	UAT-2B	UNIT SWITCHGEAR 2UAA	3.3	2750	1200x400	2x127	Indoor
		UNIT SWITCHGEAR 2UAB			1350x450	2x127	Outdoor
BD-VI	UNIT SWITCHGEAR 2UAA	UNIT SWITCHGEAR 2UAA	3.3	2750	1200x400	2x127	Indoor/Outdoor



CUSTOMER N.T.P.C.		PROJECT 2x800MW GADARWARA	
Bharat Heavy Electricals Limited RUDRAPUR		DATE 28.09.15	
N.T.P.C. DWG. NO. 9572-207-PVE-E112		REV. 02	
DRAWING NO. RU-BDE-572-15		NO. OF SHEETS 03	
SHEET NO.-02		NO. OF SHEETS 03	

REV.	DATE	ALTERED	REV.	DATE	ALTERED
01	21.11.15	CHECKED NRI	01	28.10.15	CHECKED NRI
01		DRAWING REVISED IN ACCORDANCE WITH CUSTOMER COMMENT.	01		DRAWING REVISED IN ACCORDANCE WITH CUSTOMER COMMENT.

