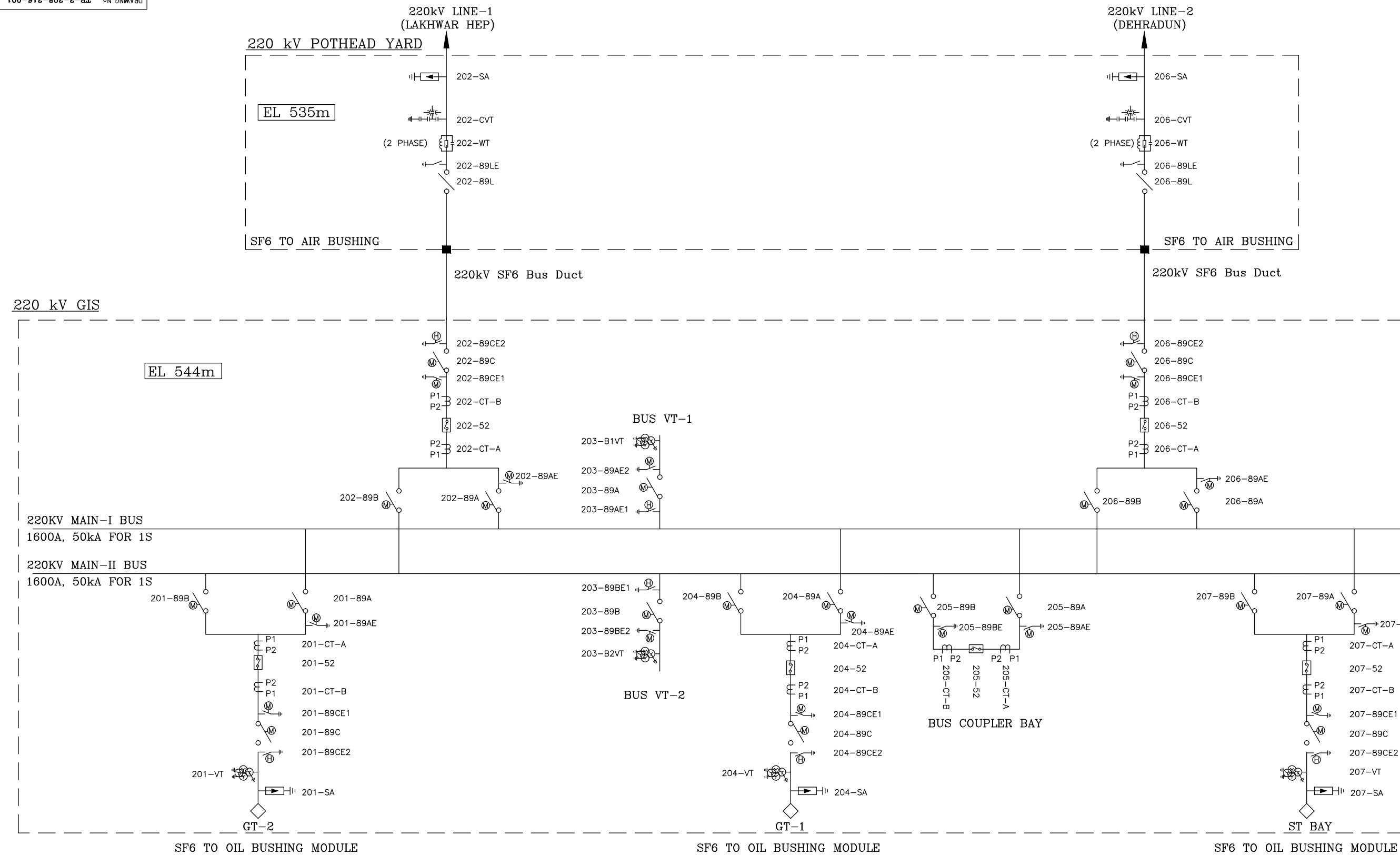




	11	10		8	7	6	5	4	3	2	1
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**COMPUTER DRG. PATH NAME :**

SIGN. &amp; DATE

REV.			DATE			ALTERED			REV.			DATE			ALTERED			REV.			DATE			ALTERED			REV.			DATE			ALTERED			APPD			DKM/RS																										
CHECKED						CHECKED						CHECKED						CHECKED						CHECKED						CHECKED						SUB-SUPPLIER/VENDOR																													
APPROVED						APPROVED						APPROVED						APPROVED						APPROVED						02			05.08.19			APPROVED			VK																										
ZONE						ZONE						ZONE						ZONE						ZONE						BAY SEQUENCE REVISED AS PER LAYOUT REQUIREMENT. FAULT RATING OF POTHEAD YARD, CT PARAMETERS, WT TYPE REVISED									ISSUES BY DEPT TBEM			UNTOLD.DIMS. GR.						ANGLE			SCALE			NTS			WEIGHT (KG)			REF. TO ASSY. DRG.			ITEM		
																																										TITLE			SINGLE LINE DIAGRAM OF 220kV POTHEAD YARD AND GIS			DRAWING NO. TB-3-398-316-0																	
12			11			10			9			8			7			6			5																								SHT. No. 01			NO. OF																	





ADDITIONAL INFORMATION				PROJECT		220kv GIS for 2x60 MW VYASI HEP						
STATUS OF DRAWING				CUSTOMER		UTTARAKHAND JAL VIDYUT NIGAM LIMITED (UJVNL)						
DISTRIBUTION OF PRINTS												
DRN	NAME	SIGN	DATE	NO. OF VAR	CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP					
	PK											
CKD	VPM/LK											
APPD	DKM/RS											
SUB-SUPPLIER/VENDOR				ISSUED BY DEPT: <b>TBEM</b>		UNTO/DIMS. GR.	ANGLE 	SCALE NTS	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
				DEPT. CODE: <b>318</b>		TITLE SINGLE LINE DIAGRAM OF 220kv POTHEAD YARD AND GIS				DRAWING NO. TB-3-398-316-001	REV. 02	
						SHT. No. 01		NO. OF SHT. 03				

LEGEND:-BOQ FOR POTHEADYARD

### MAIN SYSTEM PARAMETERS:-

**NOTES:-**

- | REV. | DATE | ALTERED |          | REV. | DATE | ALTERED |          | REV. | DATE | ALTERED |          | REV. | DATE     | ALTERED |          |   |
|------|------|---------|----------|------|------|---------|----------|------|------|---------|----------|------|----------|---------|----------|---|
|      |      | CHECKED | APPROVED |      |      | CHECKED | APPROVED |      |      | CHECKED | APPROVED |      |          | CHECKED | APPROVED |   |
|      |      |         |          |      |      |         |          |      |      |         |          |      |          |         |          |   |
| ZONE |      |         |          | ZONE |      |         |          | ZONE |      |         |          | ZONE | 05.08.19 |         |          | BAY SEQUENCE REVISED AS PER LAYOUT REQUIREMENT. FAULT RATING OF POTHEAD YARD, CT PARAMETERS WT TYPE REVISED |



ADDITIONAL INFORMATION					PROJECT	220kV GIS for 2x60 MW VYASI HEP									
STATUS OF DRAWING					CUSTOMER	UTTARAKHAND JAL VIDYUT NIGAM LIMITED (UJVNL)									
DISTRIBUTION OF PRINTS															
DRN	NAME	SIGN	DATE	NO. OF VAR	CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP								
PK															
CKD	VPM/LK														
APPD	DKM/RS														
SUB-SUPPLIER/VENDOR					ISSUED BY	DEPT	TDEM	UNTOL.DIMS. GR.	ANGLE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
					DEPT. CODE:	318			NTS						
					TITLE	SINGLE LINE DIAGRAM OF 220kV POTHEADYARD & GIS						DRAWING NO. TB-3-398-316-001	REV. 02		
												SHT. No. 02	NO. OF SHT. 03		

VT NO.	VOLTAGE RATIO IN (kV)	BURDEN (VA)	ACCURACY CLASS	PURPOSE
BUS-1 VT 203B1VT	$\frac{220000}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	50,50,50	3P,3P,0.2	PROTECTION, PROTECTION, METERING
BUS-2 VT 203B2VT	$\frac{220000}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	50,50,50	3P,3P,0.2	PROTECTION, PROTECTION, METERING
201-VT 204-VT 207-VT	$\frac{220000}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	50,50,50	3P,3P,0.2	PROTECTION, PROTECTION, METERING
202-CVT 206-CVT	$\frac{220000}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	50,50,50	3P,3P,0.2	PROTECTION, PROTECTION, METERING

02

CT REF.		CORE No.	RATIO	BURDEN (VA)	ACCURACY CLASS	MIN. KNEE POINT VOLTAGE (V <sub>k</sub> )	MAX.EXCITING CURRENT AT V <sub>k</sub> (mA)	MAX R <sub>ct</sub> (Ohms)	PURPOSE
202-CT	CTA	1	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	MAIN-1 PROTECTION
		2	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	MAIN-2 PROTECTION
		3	1600-800-400/1A	25	0.2S	NA	NA	-	(SPARE)
206-CT	CTB	3	1600-800-400/1A	25	0.2S	NA	NA	-	METERING ISF ≤ 5
		2	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	BUSBAR PROTECTION
		1	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	BUSBAR PROTECTION
201-CT	CTA	1	800-400/1A	NA	PS	800-400	60-120	4-2	87GT1 PROTECTION
		2	800-400/1A	NA	PS	800-400	60-120	4-2	87GT2 PROTECTION
		3	800-400/1A	NA	PS	800-400	60-120	4-2	REF PROTECTION
204-CT		4	800-400/1A	NA	PS	800-400	60-120	4-2	B/U O/C PROTECTION
	CTB	3	800-400/1A	25	0.2S	NA	NA	-	METERING ISF ≤ 5
		2	1600-800/1A	NA	PS	1600-800	30-60	8-4	BUSBAR PROTECTION
		1	1600-800/1A	NA	PS	1600-800	30-60	8-4	BUSBAR PROTECTION
205-CT	CTA	1	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	BUSBAR PROTECTION
		2	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	SPARE
		3	1600-800-400/1A	25	0.2S	NA	NA	-	METERING ≤ 5(ISF)
	CTB	3	1600-800-400/1A	25	0.2S	NA	NA	-	SPARE
		2	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	O/C PROTECTION
		1	1600-800-400/1A	NA	PS	1600-800-400	30-60-120	8-4-2	BUSBAR PROTECTION
207-CTA	CTA	1	200-100/1A	NA	PS	200-100	350-700	4-2	87T1 PROTECTION
		2	200-100/1A	NA	PS	200-100	350-700	4-2	87T2 PROTECTION
		3	200-100/1A	NA	PS	200-100	350-700	4-2	REF PROTECTION
		4	200-100/1A	NA	PS	200-100	350-700	4-2	B/U O/C PROTECTION
	CTB	3	200-100/1A	5	0.2S	NA	NA	-	METERING ISF ≤ 5
		2	1600-800/1A	NA	PS	1600-800	30-60	8-4	BUSBAR PROTECTION
		1	1600-800/1A	NA	PS	1600-800	30-60	8-4	BUSBAR PROTECTION

A	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	GV
			CHECKED			CHECKED			CHECKED			CHECKED			CHECKED			CHECKED	MM
			APPROVED			APPROVED			APPROVED			APPROVED			APPROVED			APPROVED	VK
	ZONE			ZONE			ZONE			ZONE			ZONE			ZONE			BAY SEQUENCE REVISED AS PER LAYOUT REQUIREMENT. FAULT RATING OF POTHEAD YARD, CT PARAMETERS, WT TYPE YARD
	12		11			10			9			8			7			6	5

ADDITIONAL INFORMATION				PROJECT		220kV GIS for 2x60 MW VYASI HEP							
STATUS OF DRAWING				CUSTOMER		UTTARAKHAND JAL VIDYUT NIGAM LIMITED (UJVNL)							
DISTRIBUTION OF PRINTS													
DRN	NAME	SIGN	DATE	NO. OF VAR	CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP						
	PK												
CKD	VPM/LK												
APPD	DKM/RS												
SUB-SUPPLIER/VENDOR					ISSUED BY DEPT. <b>TDEM</b>	UNTOL.DIMS. GR.	ANGLE 	SCALE NTS	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
					DEPT. CODE: <b>318</b>	TITLE SINGLE LINE DIAGRAM OF 220kV POTHEADYARD & GIS					DRAWING NO. TB-3-398-318-001		REV. 02
										SHT. No. 03		NO. OF SHT. 03	