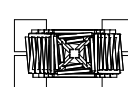


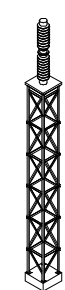
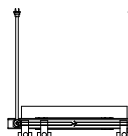
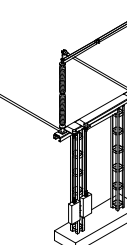

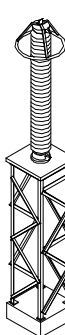
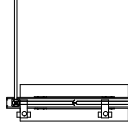
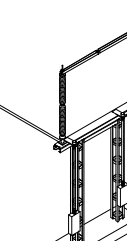

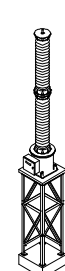
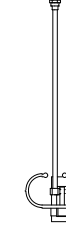
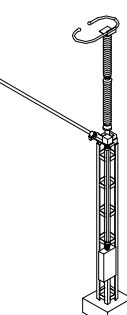

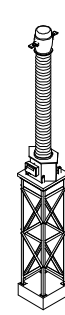
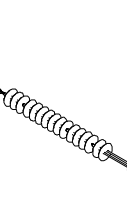

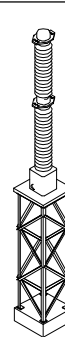
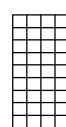

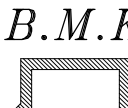

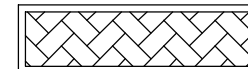

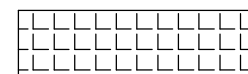
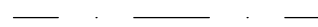







	1	2	3	4	5	6	7	8					
A	LEGEND												
			GANTRY TOWER				POST INSULATOR						
			DISCONNECTING SWITCH MOTOR OPERATED WITH TWO EARTH SWITCH MOTOR OPERATED				LIGHTNING ARRESTER						
B			DISCONNECTING SWITCH MOTOR OPERATED WITH ONE EARTH SWITCH MOTOR OPERATED				CAPACITIVE VOLTAGE TRANSFORMER						
			EARTH SWITCH MOTOR OPERATED				CURRENT TRANSFORMER						
C			STRING INSULATOR				CIRCUIT BREAKER MOTOR OPERATED						
						EARTH MAT			ROAD				
						BAY MARSHALLING KIOSK			MAINTENANCE ROAD				
						CABLE TRENCH			STRANDED CONDUCTOR				
						WALK WAY			SHIELD WIRE				
									CHAIN-LINK FENCE				
D	MINIMUM AIR CLEARANCES												
	MINIMUM AIR CLEARANCES						220kV						
	RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE						1050 KV						
	RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-EARTH)						-						
	RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-PHASE)						-						
	BASIC VALUE (NON-FLASHOVER DISTANCE, INCLUDING SAFETY-MARGIN)						2.3m +10%						
	MINIMUM CLEARANCE BETWEEN LOWEST LIVE PART AND GROUND (TOTAL SAFETY ZONE)						5m						
	CLEARANCE BETWEEN GROUND AND THE INSULATOR'S BASE						2.5m						
	VERTICAL CLEARANCE WORKING ZONE						3.75m						
	HORIZONTAL CLEARANCE WORKING ZONE						7.28m						
	CLEARANCE OF CONDUCTORS ABOVE THE MAIN ROADS						7.5m						
	PHASE SPACING OF RIGID BUSBAR (CENTER LINE TO CENTER LINE)						4.5m						
	PHASE SPACING OF OVERSPAN (CENTER LINE TO CENTER LINE)						6m						
	PHASE SPACING OF FLEXIBLE CONDUCTOR BETWEEN EQUIPMENT (CENTER LINE TO CENTER LINE)						4.5m						
	POWER FREQUENCY WITHSTAND VOLTAGE						460kV						
	VERTICAL CLEARANCE BETWEEN LIVE CONDUCTOR AND SHIELD						5m						
E	ABBREVIATION												
	ABBR.	EQUIPMENT											
	CB	CIRCUIT BREAKER											
	CT	CURRENT TRANSFORMER											
	VT	VOLTAGE TRANSFORMER											
	DS	DISCONNECTING SWITCH											
	DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH											
	EM	EARTH MAT											
	ES	EARTH SWITCH											
	GA	GANTRY TOWER											
	LA	LIGHTNING ARRESTER											
	BMK	BAY MARSHALLING KIOSK											
	PI	POST INSULATOR											
	SC	SURGE COUNTER											
	SI	STRING INSULATOR											
	TW	TOWER											
	MH	MANHOLE											
	NOTE:												
	1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.												
	2- 220kV SWITCHYARD LAYOUT PLAN & SECTION ARE TYPICAL REPRESENTATION & PRELIMINARY.												
	3- ALL CLEARANCES ARE AS PER IEC GUIDELINES.												
	4- LOCATION OF BAY MARSHALLING KIOSK & MARSHALING HOUSE SHOWN IN DRAWING ARE TENTATIVE AND SHALL BE SUITABLY LOCATED CONSIDERING ACTUAL SITE CONDITION.												
	5- ALL THE EQUIPMENT & BUSES IN THE SOW WILL BE PROTECTED FROM LIGHTNING STRIKE BY MEANS OF SHIELD WIRE.												
	6- TOP OF PLINTH FOR EQUIPMENT IN SOW WILL BE 300mm.												
	7- FINISHED GRAVEL LEVEL (F.G.R.L) IS GRAVEL TOP WITH GRAVEL (40mm. JELLY) THICKNESS OF 100mm. ABOVE FINISHED GROUND LEVEL (FGL).												
	8- DISCONNECTOR SWITCH WILL HAVE MECHANICAL AND ELECTRICAL INTERLOCK WITH THE RELEVANT EARTH SWITCH.												
	9- THIS IS CONCEPTUAL DRAWING FOR TENDER PURPOSE. HOWEVER IT IS MANDATORY TO FOLLOW THE REQUIREMENT OF KETRACO STANDARD.												
	10- ALL CABLE TRENCHES' SIZES AND ROUTES ARE TENTATIVE AND SUBJECTED TO CABLE TRENCH LAYOUT & DETAIL DOCUMENT AND CLIENT/ CONSULTANT'S APPROVAL.												
	11- THE LIGHTNING PROTECTION IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROVIDE CALCULATIONS.												
	12- THE LIGHTNING AND POWER FREQUENCY WITHSTAND VOLTAGE WILL BE GUIDED BY AN INSULATION COORDINATION STUDY IN ACCORDANCE TO IEC.												
	13- CALCULATION OF SAG FOR OVER SPAN NEEDS TO BE PROVIDED BY EPC CONTRACTOR IN DETAIL DESIGN STAGE SUBJECTED TO CLIENT/ CONSULTANT APPROVAL.												
F	PREPARED BY:												
								DESIGNED BY	KBN	SIGNATURE	PROJECT:	DWG. TITLE:	CLIENT:
		B	FOR TENDER PURPOSE	BLD	AZM	BDA	JVN	05.28.2022	DRAWN BY	AZM		GENERAL LAYOUT DRAWING GENERAL NOTES & LEGENDS OF 220KV EQUIPMENT	 
		A	ACC. TO CLIENT COMMENTS DATED:02.13.2021	KBN	AZM	ATO	JVN	03.01.2021	CHECKED BY	ATO			
		0	FIRST ISSUE	KBN	AZM	ATO	JVN	11.28.2020	APPROVED BY	JVN			
		REV	DESCRIPTION	DESIGN	DRAW	HEAD	APPR.	DATE	DATE:	11.28.2020			
									SCALE:	-	SIZE:	A1	DWG. NO.: MT-TLD-KETCO-5393-DD-01-PG-073
												SHEET: 4 OF: 14	
	1	2	3	4	5	6	7	8					