

P&ID DRAWING LIST.															
DWG No.		DESCRIPTION				DESCRIPTION				DWG No.		DESCRIPTION			
KGMMPG00M5000		PIPING & INSTRUMENTATION DIAGRAM STANDARD SYMBOLOGY (2 SHEETS)				PIPING & INSTRUMENTATION DIAGRAM CHEMICAL INJECTION PACKAGE				KGMMPG00M5091		PIPING & INSTRUMENTATION DIAGRAM CHEMICAL INJECTION PACKAGE			
KGMMPG00M5001		PIPING & INSTRUMENTATION DIAGRAM REDUCTION FURNACE UPPER SECTION				PIPING & INSTRUMENTATION DIAGRAM POTABLE WATER DISTRIBUTION				KGMMPG00M5092		PIPING & INSTRUMENTATION DIAGRAM POTABLE WATER DISTRIBUTION			
KGMMPG00M5002		PIPING & INSTRUMENTATION DIAGRAM REDUCTION FURNACE MIDDLE SECTION				PIPING & INSTRUMENTATION DIAGRAM MAKEUP WATER GENERATION UNIT (5 SHEETS)				KGMMPG00M5093		PIPING & INSTRUMENTATION DIAGRAM MAKEUP WATER GENERATION UNIT (5 SHEETS)			
KGMMPG00M5003		PIPING & INSTRUMENTATION DIAGRAM REDUCTION FURNACE LOWER SECTION				PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER SYSTEM				KGMMPG00M5094		PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER SYSTEM			
KGMMPG00M5004		PIPING & INSTRUMENTATION DIAGRAM TOP GAS SCRUBBER				PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER DISTRIBUTION (SHEET 1/2)				KGMMPG00M5095		PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER DISTRIBUTION (SHEET 1/2)			
KGMMPG00M5005		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS COMPRESSOR CP-A48.1				PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER DISTRIBUTION (SHEET 2/2)				KGMMPG00M5096		PIPING & INSTRUMENTATION DIAGRAM MACHINERY COOLING WATER DISTRIBUTION (SHEET 2/2)			
KGMMPG00M5006		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS COMPRESSOR CP-A48.2				PIPING & INSTRUMENTATION DIAGRAM PRODUCT COOLER DUST COLLECTION SYSTEM				KGMMPG00M5101		PIPING & INSTRUMENTATION DIAGRAM PRODUCT COOLER DUST COLLECTION SYSTEM			
KGMMPG00M5007		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS COMPRESSOR CP-A48.3				PIPING & INSTRUMENTATION DIAGRAM CONVEYING SYSTEM DUST COLLECTION SYSTEM				KGMMPG00M5102		PIPING & INSTRUMENTATION DIAGRAM CONVEYING SYSTEM DUST COLLECTION SYSTEM			
KGMMPG00M5008		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS COMPRESSOR CP-A51.1				PIPING & INSTRUMENTATION DIAGRAM BOTTOM SEAL GAS BUBBLER				KGMMPG00M5103		PIPING & INSTRUMENTATION DIAGRAM BOTTOM SEAL GAS BUBBLER			
KGMMPG00M5009		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS COMPRESSOR CP-A51.2				PIPING & INSTRUMENTATION DIAGRAM BOTTOM SEAL GAS DUST COLLECTION SYSTEM				KGMMPG00M5104		PIPING & INSTRUMENTATION DIAGRAM BOTTOM SEAL GAS DUST COLLECTION SYSTEM			
KGMMPG00M5010		PIPING & INSTRUMENTATION DIAGRAM PROCESS GAS MIST ELIMINATOR & FEED GAS MIXER				PIPING & INSTRUMENTATION DIAGRAM OXIDE DAY BIN & SCREEN & FURNACE FEED (4 SHEETS)				KGMMPG00M5105		PIPING & INSTRUMENTATION DIAGRAM OXIDE DAY BIN & SCREEN & FURNACE FEED (4 SHEETS)			
KGMMPG00M5011		PIPING & INSTRUMENTATION DIAGRAM PREHEATERS, BANK 1				PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 1/3)				KGMMPG00M5108		PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 1/3)			
KGMMPG00M5012		PIPING & INSTRUMENTATION DIAGRAM PREHEATERS, BANK 2				PIPING & INSTRUMENTATION DIAGRAM PDC EQUIPMENT HYDRAULIC SYSTEM (SHEET 1/2)				KGMMPG00M5109		PIPING & INSTRUMENTATION DIAGRAM PDC EQUIPMENT HYDRAULIC SYSTEM (SHEET 1/2)			
KGMMPG00M5013		PIPING & INSTRUMENTATION DIAGRAM FEED GAS DESULFURIZATION				PIPING & INSTRUMENTATION DIAGRAM PDC EQUIPMENT HYDRAULIC SYSTEM (SHEET 2/2)				KGMMPG00M5110		PIPING & INSTRUMENTATION DIAGRAM PDC EQUIPMENT HYDRAULIC SYSTEM (SHEET 2/2)			
KGMMPG00M5015		PIPING & INSTRUMENTATION DIAGRAM TRANSITION ZONE NATURAL GAS INJECTION SYSTEM				PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 2/3)				KGMMPG00M5111		PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 2/3)			
KGMMPG00M5018		PIPING & INSTRUMENTATION DIAGRAM REFORMER				PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 3/3)				KGMMPG00M5112		PIPING & INSTRUMENTATION DIAGRAM FURNACE EQUIPMENT HYDRAULIC SYSTEM (SHEET 3/3)			
KGMMPG00M5019		PIPING & INSTRUMENTATION DIAGRAM REFORMED GAS COOLER				PIPING & INSTRUMENTATION DIAGRAM PLANT AIR GENERATION				KGMMPG00M5123		PIPING & INSTRUMENTATION DIAGRAM PLANT AIR GENERATION			
KGMMPG00M5020		PIPING & INSTRUMENTATION DIAGRAM GAS ANALYZER SYSTEM DETAILS				PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR GENERATION				KGMMPG00M5124		PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR GENERATION			
KGMMPG00M5021		PIPING & INSTRUMENTATION DIAGRAM REFORMER DETAILS INSTRUMENTATION KEY PLAN				PIPING & INSTRUMENTATION DIAGRAM PLANT AIR DISTRIBUTION				KGMMPG00M5125		PIPING & INSTRUMENTATION DIAGRAM PLANT AIR DISTRIBUTION			
KGMMPG00M5022		PIPING & INSTRUMENTATION DIAGRAM REFORMER DETAILS AUXILIARY BURNER SYSTEM				PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION HEADERS				KGMMPG00M5126		PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION HEADERS			
KGMMPG00M5023		PIPING & INSTRUMENTATION DIAGRAM REFORMER DETAILS MAIN BURNER SYSTEM				PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION-USERS				KGMMPG00M5127		PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION-USERS			
KGMMPG00M5024		PIPING & INSTRUMENTATION DIAGRAM REFORMER DETAILS CATALYST TUBE SYSTEM				PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION-USERS				KGMMPG00M5128		PIPING & INSTRUMENTATION DIAGRAM INSTRUMENT AIR DISTRIBUTION-USERS			
KGMMPG00M5028		PIPING & INSTRUMENTATION DIAGRAM NATURAL GAS DISTRIBUTION				PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)				KGMMPG00M5131		PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)			
KGMMPG00M5030		PIPING & INSTRUMENTATION DIAGRAM MAIN AIR, DILUTION AIR & AUXILIARY AIR BLOWER				PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)				KGMMPG00M5132		PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)			
KGMMPG00M5031		PIPING & INSTRUMENTATION DIAGRAM EJECTOR STACK AND EJECTOR STACK FAN				PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)				KGMMPG00M5133		PIPING & INSTRUMENTATION DIAGRAM MATERIAL HANDLING (OXIDE)			
KGMMPG00M5032		PIPING & INSTRUMENTATION DIAGRAM REFORMER AUXILIARY BURNER FUEL CONTROL				PIPING & INSTRUMENTATION DIAGRAM OXIDE COATING SYSTEM				KGMMPG00M5135		PIPING & INSTRUMENTATION DIAGRAM OXIDE COATING SYSTEM			
KGMMPG00M5033		PIPING & INSTRUMENTATION DIAGRAM REFORMER MAIN BURNER FUEL CONTROL				PIPING & INSTRUMENTATION DIAGRAM FUNCTION CALCULATION				KGMMPG00M5142		PIPING & INSTRUMENTATION DIAGRAM FUNCTION CALCULATION			
KGMMPG00M5040		PIPING & INSTRUMENTATION DIAGRAM PRODUCT DISCHARGE CHAMBER (PDC)				PIPING & INSTRUMENTATION DIAGRAM FIRE WATER SYSTEM				KGMMPG00M5150		PIPING & INSTRUMENTATION DIAGRAM FIRE WATER SYSTEM			
KGMMPG00M5054		PIPING & INSTRUMENTATION DIAGRAM PRODUCT COOLER				PIPING & INSTRUMENTATION DIAGRAM OXYGEN MAIN & NOZZLES				KGMMPG00M5151		PIPING & INSTRUMENTATION DIAGRAM OXYGEN MAIN & NOZZLES			
KGMMPG00M5055		PIPING & INSTRUMENTATION DIAGRAM PRODUCT COOLER DISCHARGE													
KGMMPG00M5056		PIPING & INSTRUMENTATION DIAGRAM PRODUCT HANDLING SYSTEM													
KGMMPG00M5061		PIPING & INSTRUMENTATION DIAGRAM COOLING GAS SCRUBBER													
KGMMPG00M5062		PIPING & INSTRUMENTATION DIAGRAM COOLING GAS COMPRESSOR CP-A71													
KGMMPG00M5064		PIPING & INSTRUMENTATION DIAGRAM COOLING GAS MIST ELIMINATOR SR-A73													
KGMMPG00M5065		PIPING & INSTRUMENTATION DIAGRAM SEAL GAS COOLER													
KGMMPG00M5066		PIPING & INSTRUMENTATION DIAGRAM SEAL GAS COMPRESSOR (4 SHEETS)													
KGMMPG00M5067		PIPING & INSTRUMENTATION DIAGRAM SEAL GAS AFTER COOLER & WET SEAL GAS DISTRIBUTION - USERS													
KGMMPG00M5068		PIPING & INSTRUMENTATION DIAGRAM SEAL GAS REFRIGERANT DRYER DR-D11													
KGMMPG00M5069		PIPING & INSTRUMENTATION DIAGRAM DRY SEAL GAS DISTRIBUTION													
KGMMPG00M5070		PIPING & INSTRUMENTATION DIAGRAM PURGE GAS COMPRESSORS CP-D20.1,2													
KGMMPG00M5072		PIPING & INSTRUMENTATION DIAGRAM PURGE GAS DRYER & PURGE GAS TANKS													
KGMMPG00M5074		PIPING & INSTRUMENTATION DIAGRAM PURGE GAS & IMPULSE PURGE DISTRIBUTION													
KGMMPG00M5076		PIPING & INSTRUMENTATION DIAGRAM INERT GAS GENERATION SYSTEM													
KGMMPG00M5080		PIPING & INSTRUMENTATION DIAGRAM CLASSIFIER & SCRUBBER BLOWDOWN SUMP													
KGMMPG00M5081		PIPING & INSTRUMENTATION DIAGRAM CLARIFIER													
KGMMPG00M5082		PIPING & INSTRUMENTATION DIAGRAM PROCESS WATER SUMP HOT WELL													
KGMMPG00M5083		PIPING & INSTRUMENTATION DIAGRAM COLD PROCESS WATER SYSTEM (CONTAMINATED) SHEET(1/2)													
KGMMPG00M5083		PIPING & INSTRUMENTATION DIAGRAM COLD PROCESS WATER SYSTEM (CLEAN) SHEET(2/2)													
KGMMPG00M5084		PIPING & INSTRUMENTATION DIAGRAM PROCESS WATER DISTRIBUTION													
KGMMPG00M5085		PIPING & INSTRUMENTATION DIAGRAM HOT PROCESS WATER DISTRIBUTION													
KGMMPG00M5088		PIPING & INSTRUMENTATION DIAGRAM BLOWER AREA SUMP													
KGMMPG00M5090		PIPING & INSTRUMENTATION DIAGRAM POTABLE WATER GENERATION UNIT													

Z	06/2019	AS BUILT	ASB	KHALIPOOR SHAGHACH	ISSUE FOR APPROVAL	1	09/2014	IFC	KHALIPOOR PARVANI	KOMARSI	16
5	07/2017	ISSUE FOR CONSTRUCTION	IFC	KHALIPOOR SHAGHACH	ISSUE FOR CONSTRUCTION	2	09/2014	IFC	KHALIPOOR PARVANI	KOMARSI	16
4	10/2015	ISSUE FOR CONSTRUCTION	IFC	KHALIPOOR SHAGHACH	ISSUE FOR CONSTRUCTION	3	03/2015	IFC	KHALIPOOR PARVANI	KOMARSI	16
3	03/2015	ISSUE FOR CONSTRUCTION	IFC	KHALIPOOR SHAGHACH	ISSUE FOR CONSTRUCTION	4	03/2015	IFC	KHALIPOOR PARVANI	KOMARSI	16
2	09/2014	ISSUE FOR CONSTRUCTION	IFC	KHALIPOOR SHAGHACH	ISSUE FOR CONSTRUCTION	5	09/2014	IFC	KHALIPOOR PARVANI	KOMARSI	16
1	09/2014	ISSUE FOR APPROVAL	IFA	KHALIPOOR SHAGHACH	ISSUE FOR APPROVAL	6	09/2014	IFA	KHALIPOOR PARVANI	KOMARSI	16
REV.	DATE	PURPOSE OF ISSUE		PREPARE	CHECK	APPROVE					
Project: KOWSAR GISD MEGA MODULE PROJECT											
Client: Contractor: MINES & METALS TECHNOLOGICAL ENGINEERING CO.											
Client's Project	Project Code	Main Contractor	Area Code	Plant Group	Equipment Code	Document Type	Equipment Discipline	Serial No.			
GISD	7-2	119	1002	7	AA	04	P	200			
DESIGNED	MMTE	DATE	SIGNATURE: PIPING & INSTRUMENTATION DIAGRAM								
PREPARED	MMTE	01/2017	STANDARD SYMBOLLOGY								
CHECKED	SHAGHACH	01/2017	Drawing-No. KCMMPG00M5000								
APPROVED	MMTE	01/2017	Scale: A3 2/2								
Confidential: This document discloses proprietary information. It is not to be distributed outside the project without the written permission of MMTE Co.											