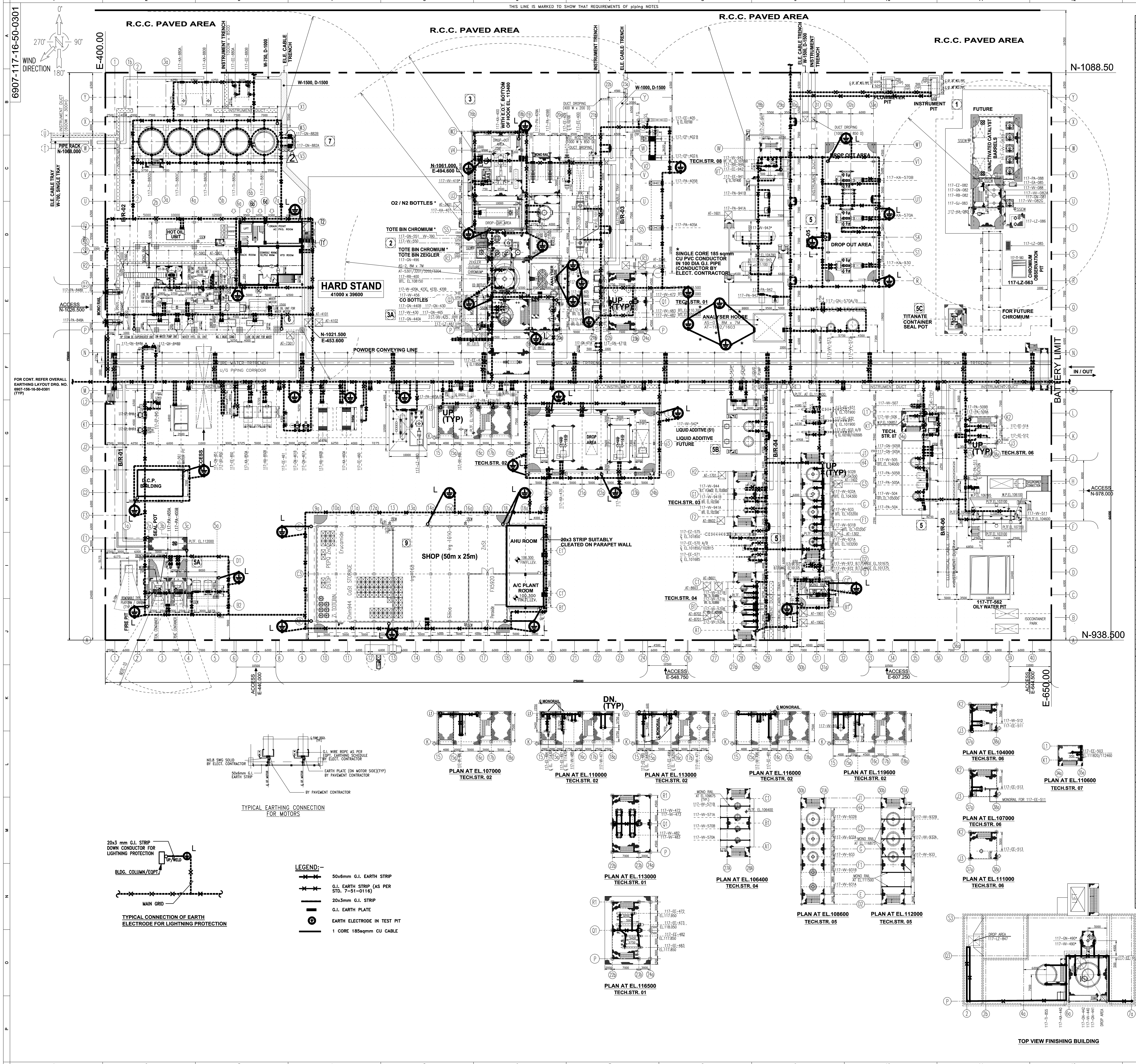
6907-117-16-50-0301


THIS LINE IS MARKED TO SHOW THAT REQUIREMENTS OF piping NOTES
R.C.C. PAVED AREA
WIND DIRECTION
0°
90°
180°
270°
E-400.00
N-1088.50
N-938.500
E-650.00
INSTRUMENT TRENCH
ELE. CABLE TRENCH
PIPE RACK N-1068.000
HARD STAND 41000 x 39600
HOT OIL UNIT
O2 / N2 BOTTLES
TOTE BIN CHROMIUM
TOTE BIN ZEIGLER
CO BOTTLES
N-1061.000 E-494.600
N-1021.500 E-453.600
POWDER CONVEYING LINE
U/G PIPING CORRIDOR
SINGLE CORE 185 sqmm CU PVC CONDUCTOR IN 100 DIA G.I. PIPE (CONDUCTOR BY ELECT. CONTRACTOR)
ANALYSER HOUSE
TECH.STR. 01
TECH.STR. 02
TECH.STR. 03
TECH.STR. 04
TECH.STR. 05
TECH.STR. 06
TECH.STR. 07
TECH.STR. 08
DROP OUT AREA
FUTURE
UNACTIVATED CATALYST BARRELS
CHROMIUM OBSERVATION PIT
117-LZ-563
TITANATE CONTAINER SEAL POT
FOR FUTURE CHROMIUM
BATTERY LIMIT
IN / OUT
ACCESS N-978.000
ACCESS N-1026.500
LIQUID ADDITIVE (S1)
LIQUID ADDITIVE FUTURE
D.C.P. BUILDING
SEAL POT
FIRE PIT
SHOP (50m x 25m)
AHU ROOM
A/C PLANT ROOM
20x3 STRIP SUITABLY CLEATED ON PARAPET WALL
117-TT-562 OILY WATER PIT
ACCESS E-440.000
ACCESS E-548.750
ACCESS E-607.250
ACCESS E-644.500
FOR CONT. REFER OVERALL EARTHING LAYOUT DRG. NO. 6907-156-16-50-0301 (TYP)
UP (TYP)
DN. (TYP)
PLAN AT EL.107000 TECH.STR. 02
PLAN AT EL.110000 TECH.STR. 02
PLAN AT EL.113000 TECH.STR. 02
PLAN AT EL.116000 TECH.STR. 02
PLAN AT EL.119600 TECH.STR. 02
PLAN AT EL.104000 TECH.STR. 06
PLAN AT EL.110600 TECH.STR. 07
PLAN AT EL.107000 TECH.STR. 06
PLAN AT EL.111000 TECH.STR. 06
PLAN AT EL.113000 TECH.STR. 01
PLAN AT EL.116500 TECH.STR. 01
PLAN AT EL.106400 TECH.STR. 04
PLAN AT EL.108600 TECH.STR. 05
PLAN AT EL.112000 TECH.STR. 05
TOP VIEW FINISHING BUILDING
TYPICAL EARTHING CONNECTION FOR MOTORS
NO.8 SWG SOLID BY ELECT. CONTRACTOR
50x6mm G.I. EARTH STRIP
G.I. WIRE ROPE AS PER EQPT. EARTHING SCHEDULE BY ELECT. CONTRACTOR
EARTH PLATE (ON MOTOR SIDE)(TYP) BY PAVEMENT CONTRACTOR
BY PAVEMENT CONTRACTOR
20x3 mm G.I. STRIP DOWN CONDUCTOR FOR LIGHTNING PROTECTION
BLDG. COLUMN/EQPT.
MAIN GRID
TYPICAL CONNECTION OF EARTH ELECTRODE FOR LIGHTNING PROTECTION
LEGEND:-
50x6mm G.I. EARTH STRIP
G.I. EARTH STRIP (AS PER STD. 7-51-0116)
20x3mm G.I. STRIP
G.I. EARTH PLATE
EARTH ELECTRODE IN TEST PIT
1 CORE 185sqmm CU CABLE

प्रस्तुत आरेख एवं इसमें निहित डिज़ाइन इंजीनियर्स इंडिया लिमिटेड की संपत्ति है। ये मात्र उधार दिए गए है और उधारकर्ता ने यह स्पष्ट समझौता किया है कि न तो उन्हें पुन: मुद्रित किया जाएगा, न नकल की जाएगी, न उधार दिए जाएंगे, न प्रदर्शित किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा इनका कोई अन्य प्रयोग होगा और यह प्रयोग उधार देने वाले द्वारा उधारकर्ता को लिखित रूप में दी गई सहमति से होगा ।

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LIST OF EQUIPMENTS

TAG.NO	EQUIPMENT	P&ID NO.		REMARKS
VESSEL / REACTORS / COLUMNS				
117-VV-082A-G *	CHROMIUM CATALYST TOTE BINS	1123, 27,81		1600 ID X 1530
117-VV-083 *	CATALYST FINES TOTE BIN	1124		1100 ID X 735
117-VV-088 *	TITANATE STROAGE DRUM	1121		500 ID X 1250
117-VV-390	CATALYST INJECTION BUFFER DRUM	1126		900 ID X 2650
117-VV-405	CW LOOP EXPANSION DRUM	1144		1300 ID X 3550
117-VV-409	MAIN LOOP SEPERATOR	1133		3300 ID X 4350 1500 ID X 2500
117-VV-419 *	O2/N2 BUFFER DRUM	1148		800 ID X 1200
117-VV-420A/B	LOCK HOPPERS	1136		483 ID X 1280
117-VV-423C/D	LOCK HOPPERS	1137		483 ID X 1280
117-VV-425	PRIMARY DEGASSER	1138		762 ID X 1700
117-VV-430	SECONDARY DEGASSER	1139		3500 ID X 147400
117-VV-440	PURGE COLUMN	1140		800 ID x 540, 2700 ID x 17310 6000 ID x 18770
117-VV-456	CARBON MONOXIDE DRUM	1148		2850 ID X 2950
117-VV-471	KA-470 SUCTION KO DRUM	1146		
117-VV-472	KA-470 FIRST STAGE KO DRUM	1147		1200 ID X 3680
117-VV-473	KA-470 DISCHARGE KO DRUM	1147		1200 ID X 2720
117-VV-490 *	START-UP POWDER STORAGE SILO	1143		3700 ID X 111000
117-VV-482	KA-480 FIRST STAGE KO DRUM	1152		900 ID X 2990
117-VV-483	KA-480 DISCHARGE KO DRUM	1152		700 ID X 2120
117-VV-485	VRU FEED KO DRUM	1151		
117-VV-486	VRU MAIN SEPARATOR	1154		
117-VV-496	LOOP PURGE SEPARATOR	1154		700 ID X 2400
117-VV-505	FLARE KO DRUM	1171		2000 ID X 4570
117-VV-504	CLEAN HC DRAIN DRUM	1171		1400 ID X 4200
117-VV-506	LP CONDENSATE FLASH DRUM	1177		1540 ID X 4630
117-VV-507	HP CONDENSATE FLASH DRUM	1177		5900 ID X 2750
117-VV-511	HCD STORAGE DRUM	1184		2200 ID X 9500
117-VV-512	LRU COLUMN	1184		
117-VV-542 *	LIQUID ADDITIVE S1 DRUM	1179		2000 ID X 5350
117-VV-550	CATALYST RELIEF VENT DRUM	1181		1800 ID X 2500
117-VV-552	POWDER RELIEF VENT DRUM	1182		1200 ID X 1200
117-VV-553	POWDER RECEIVER DRUM	1182		900 ID X 1800
117-VV-570A/B	NITROGEN O2 REMOVAL TREATERS	1186		850 ID X 2800
117-VV-571A/B	NITROGEN OXYGENATES TREATERS	1187		1200 ID X 2900
117-VV-572	HNP BUFFER DRUM	1189		2600 ID X 7800
117-VV-573	MNP BUFFER DRUM	1189		1500 ID X 7500
117-VV-931A/B	ETHYLENE CO/O2/C2H2 TREATER	1113		1700 ID X 4750
117-VV-932A/B	ETHYLENE OXYGENATES TREATERS	1114		3000 ID X 6980
117-VV-933	ETHYLENE SULFUR GUARD	1111		2200 ID X 8800
117-VV-941A/B	COMONOMER TREATER	1115		789 ID x 8080
117-VV-942	BUTENE-1 BUFFER DRUM	1116		1200 ID X 3200
117-VV-943 *	HEXENE-1 BUFFER DRUM	1116		508 ID X 1400
117-VV-944	PENTANE TREATER	1117		437 ID X 4030
117-VV-945	PENTANE STROAGE	1117		2400 ID X 7500
117-VV-971	HYDROGEN MERCURY TRAP	1118		146 ID X 3220
117-VV-972	HYDROGEN O2 TREATER	1118		146 ID X 3220
117-VV-973	HYDROGEN DRYER	1119		374 ID X 3060
117-RB-082 *	CATALYST ACTIVATOR	1122		
117-RB-400	POLYMERISATION REACTOR	1131		4600 ID X 18500
117-RB-946	BUTENE DIENES HYDROGENATION REACTOR	1112		
EXCHANGERS / HEATERS				
117-EA-085	ACTIVATOR OFFGAS COOLER	1122		
117-EE-400	MAIN LOOP CONDENSER	1132		1844 ID X 17545
117-EE-403	BOOSTER DISCHARGE COOLER	1134		
117-EE-405	CW LOOP HEATER	1144		650 ID X 3960
117-EE-409	PA-409A/B DISCHARGE COOLER	1133		1100 ID X 7832
117-EE-445	VV-440 STRIPPING GAS HEATER	1140		
117-EE-460	KA-460A/B DISCHARGE COOLER	1142		
117-EE-461	KA-460A/B SUCTION COOLER	1142		
117-EE-470	RECYCLE GAS COOLER	1146		
117-EE-472	KA-470 FIRST STAGE COOLER	1147		4751 ID X 7052
117-EE-473	KA-470 DISCHARGE COOLER	1147		6751 ID X 7232
117-EE-480	VRU INLET GAS COOLER	1151		4751 ID X 7052
117-EE-481	VRU INTERCHANGER	1151		
117-EE-482	KA-480 FIRST STAGE COOLER	1152		3361 ID X 6972
117-EE-483	KA-480 DISCHARGE COOLER	1152		3361 ID X 6972
117-EE-503	VENT STEAM CONDENSER	1177		2051 ID X 3136
117-EE-511	LRU COLUMN REBOILER	1184		
117-EE-512	RESIDUE TRIM COOLER	1184		
117-EE-513	LRU COLUMN CONDENSER	1184		
117-EE-514	HCC TRIM COOLER	1184		
117-EE-570A/B	NITROGEN INTERCHANGER	1186		
117-EE-571	NITROGEN HEATER	1186		373 ID X 2180
117-EE-850	PELLET BLOWERS DISCHARGE COOLER	1161		
117-EE-880A/B	FINAL PELLET BLOWERS DISCHARGE COOLER	1163		373 ID X 3520
117-EE-931	ETHYLENE HEATER	1113		373 ID X 7090
117-EE-932	ETHYLENE FINAL COOLER	1114		
117-EE-933A/B	ETHYLENE INTERCHANGER	1114		
117-EE-941	COMONOMER RECYCLE COOLER	1116		
117-EE-942	BUTENE HYDROGENATION HEATER	1112		
117-EP-402A/B	CW LOOP COOLER	1144		
117-EE-484	N2 RICH GAS CONDENSER	1153		
117-EE-485	N2 RICH GAS INTERCHANGER	1153		
117-EE-496	LOOP PURGE INTERCHANGER	1153		
117-EE-497	LOOP PURGE CONDENSER	1153		
117-EP-844A/B	PELLET WATER SPIRAL COOLER	1160		
117-EP-845	PELLET WATER PLATE COOLER	1160		
117-EZ-082 *	ACTIVATOR GAS HEATER	1122		
117-EZ-083A/B/C*	ACTIVATOR HEATER	1122		
117-EZ-575 *	REGENERATION NITROGEN HEATER	1185		
PUMPS				
117-PA-088 *	TITANATE FEED PUMP	1121		
117-PA-405A/B	CW LOOP PUMPS	1144		
117-PA-409A/B	LIQUID INJECTION PUMPS	1133		
117-PA-455A/B	TEAL INJECTION PUMPS	1145		
117-PA-471A/B	CONDENSATE RECYCLE PUMPS	1146		
117-PA-472A/B	KA-470 CONDENSATE PUMP	1147		
117-PA-482A/B	KA-480 CONDENSATE PUMPS	1152		
117-PA-485A/B	VV-485 RECYCLE PUMPS	1151		
117-PA-505A/B	FLARE DRUM PUMPS	1171		
117-PA-509A/B	LP CONDENSATE PUMPS	1177		
117-PA-504	CLEAN HC EXPORT PUMP	1171		
117-PA-511	LRU COLUMN FEED PUMP	1184		
117-PA-542A/B *	LIQUID ADDITIVE (S1) INJECTION PUMPS	1179		
117-PA-848A/B	PELLET WATER PUMPS	1160		
117-PA-941A/B	COMONMER INJECTION PUMPS	1116		
117-PA-942	PENTANE INJECTION PUMPS	1117		
117-PA-943	PENTANE START-UP PUMPS	1117		
COMPRESSORS / BLOWERS / FANS				
117-KA-080*	ACTIVATOR JACKET AIR BLOWER	1122		
117-KA-400	MAIN LOOP GAS COMPRESSOR	1134		
117-KA-401	EJECTOR BOOSTER COMPRESSOR	1134		
117-KA-440	VV-440 OFF GAS FAN	1141		
117-KA-460A/B	CONVEYING GAS BLOWERS	1142		
117-KA-470	RECYCLE GAS COMPRESSOR	1147		
117-KA-480	VRU COMPRESSOR	1152		
117-KA-570A/B	NITROGEN COMPRESSORS	1188		
117-KA-815	ADDITIVE VENT FILTER FAN	1158		
117-KA-825	FEEDER VENT FAN	1158		
117-KA-841	EXTRUDER VENT FAN	1158		
117-KA-847	PELLET DRYER FAN	1160		
117-KA-850A/B	PELLET CONVEYING BLOWERS	1161		
117-KA-880A/B	FINAL PELLET CONVEYING BLOWERS	1163		
117-KA-892A/B	ELUTRIATOR FAN	1165		
117-KA-930	ETHYLENE COMPRESSOR	1111		
117-KA-971	HYDROGEN COMPRESSOR	1119		
PACKAGES / ADSORBENT / CATALYST				
117-LZ-082 *	CHROMIUM CATALYST ACTIVATOR PACKAGE	1122		
117-LZ-085 *	EMERGENCY NITROGEN SUPPLY PACKAGE	1124		
117-LZ-086 *	AIR DRYING PACKAGE	1121		
117-LZ-303 *	CHROMIUM CATALYST CONVEYING PACKAGE	1127		
117-LZ-480	REFRIGERATION PACKAGE	1153		
117-LZ-460	POWDER CONVEYING PACKAGE	1142		
117-LZ-461	START-UP UNLOADING FACILITIES	1143		
117-LZ-563	CHROMIUM TREATMENT PACKAGE	1183		
117-LZ-820	FEEDER PACKAGE	1155,56 1157,58		
117-LZ-825	ADDITIVE UNLOADING PACKAGE	1156,57,58		
117-LZ-840	EXTRUDER PACKAGE	1159		
117-LZ-841	EXTRUDER VENT PACKAGE	1158		
117-LZ-847	PELLET DRYER PACKAGE	1160		
117-LZ-850	PELLET CONVEYING PACKAGE	1161		
117-LZ-890	PELLET DEDUSTING PACKAGE	1165		
117-LZ-895-A/B/C	BAGGING MACHINES	1167		
117-LZ-896-A/B/C	PALLETISER PACKAGES	1168		
117-LZ-880	FINAL PELLET CONVEYING PACKAGE	1162, 63		
117-LZ-941	BUTADIENE HYDROGENATION PACKAGE	1112		
117-LZ-ADSC2	FEED STOCK PREPARATION ADSORBENTS	1115,17,19		
117-LZ-ADSN2	NITROGEN PREPARATION ADSORBENT	1187		
117-LZ-CATAN1/2	NITROGEN PREPARATION CATALYST	1186		
117-LZ-CATAC2	ETHYLENE PREPARATION CATALYSTS	1113		
117-LZ-CATAH2	HYDROGEN PREPARATION CATALTSTS	1118		
FILTERS / SCREENS				
117-GN-081 *	ACTIVATOR HOT GAS FILTER	1122		
117-GN-082 *	ACTIVATOR OFFGAS FILTER	1124		
117-GN-303 *	CHROMIUM CATALYST CONVEYING FILTER	1127		
117-GN-430	VV-430 VENT FILTER	1139		
117-GN-440A/B	POLYMER VIBRATING SCREENS	1139		
117-GN-441	LZ-460 CONVEYING FILTER	1140		
117-GN-442	VV-440 VENT FILTER	1140		
117-GN-461A/B	KA-460A/B GUARD FILTERS	1142		
117-GN-465	YF-460 VENT FILTER	1139		
117-GN-466	YF-466B VENT FILTER	1143		
117-GN-471A/B	CONDENSATE FILTER	1146		
117-GN-490 *	VV-490 VENT FILTER	1143		
117-GN-496	LOOP PURGE GUARD FILTER	1153		
117-GN-505A/B	HCD FILTERS	1171		
117-GN-551	CATALYST VENT FILTER	1181		
117-GN-552	'PV' VENT FILTER	1182		
117-GN-570A/B	NITROGEN FILTERS	1188		
117-GN-815	ADDITIVE VENT FILTER	1158		
117-GN-841	EXTRUDER VENT FILTER	1158		
117-GN-847	PELLET DRYER / DEWATERER	1160		
117-GN-848A/B	PELLET WATER FILTER	1160		
117-GN-849	PELLET SCREENER	1160		
117-GN-851	PELLET CONVEYING FILTER	1161		
117-GN-891A/B	ELUTRIATOR	1165		
117-GN-882A/B	FINAL PELLET CONVEYING FILTERS	1163		
117-GN-971	HYDROGEN GUARD FILTER	1119		

LIST OF SUB UNITS

SL. No.	DESCRIPTION			
①	CATALYST ACTIVATION UNIT(CAU)			
②	CATALYST INJECTION UNIT (CIU)			
③	POLYMERISATION UNIT (PU)			
3A	(PU) POWDER DEGASSING			
3B	(PU) PURGE COLUMN			
④	VENT RECOVERY UNIT (VRI)			
⑤	REAGENT & UTILITIES (RU)			
5A	(RU) TEAL			
5B	(RU) LIQUID ADDITIVE S1			
5C	TITANATE			
5D	(RU) LIQUID RECOVERY UNIT (LRU)			
⑥	FINISHING BUILDING (ABU)			
⑦	PELLET BLENDING UNIT (PBU)			
⑧	LOGISTICS			
⑨	ADDITIVES STORAGE			

NOT TO SCALE, ASK IF IN DOUBT

REF. DWG. NO.	REFERENCE DRAWING TITLE
OVERALL PLOT PLAN	6907-010-16-47-0001
EQPT. L/O LLDPE/HDPE	6907-117-16-43-0001/4 OPEN
EIL STANDARD	7-51-0102,0103,,0104,0106,0108,0112,0116

NOTES :-

1. FOR GENERAL NOTES OF EARTHING REFER DOCUMENT NO. 6907-156-16-50-4300.
2. SCOPE OF LAYING OF EARTH GRID IN PAVEMENT & IN TRENCHES SHALL BE DONE BY CIVIL/STRUCT. CONTRACTOR UP TO EARTH PLATE/300mm ABOVE NEAR FOUNDATIONS OF EQPT. & ONWARD CONNECTION TO EQPT. & ALL EXPOSED EARTH STRIP AT HIGHER ELEVATION SHALL BE IN THE SCOPE OF ELECTRICAL CONTRACTOR.
3. FOR SYSTEM EARTH OF INSTRUMENTATION CONNECTION FROM EARTH PLATE TO INSTRUMENT PANEL SHALL BE DONE BY INSTRUMENTATION.
4. EARTHING CABLE NEAR ANALYSER SHELTER FOR INSTRUMENT EARTHING SHALL BE SUITABLY LAID IN 100mm DIA G.I. PIPIE.
5. EARTH PLATES FOR EARTHING OF MOTOR/PUSH BUTTON STATION SHALL BE SUITABLY PROVIDED TOWARDS MOTOR SIDE ONLY.
6. AUX. EQPT. LIKE LUBE OIL PUMPS ETC. WHICH ARE NOT SHOWN IN THE DRG. SHALL BE SUITABLY EARTHED AS PER THE REQUIREMENT OF EIL STD./ EARTHING SCHEDULE.
7. EXACT LOCATION OF EARTH ELECTRODE/BURIED EARTH STRIP SHALL BE SUITABLY DECIDED AT SITE TO AVOID FOULING WITH UNDER GROUND FACILITIES.
8. PROCESS LINES HANDLING DRY HYDROCARBONS (POWDER, BUTENE-1 & PENTANE) SHALL BE EARTHED AND BONDED.

2

LIST OF EQUIPMENTS

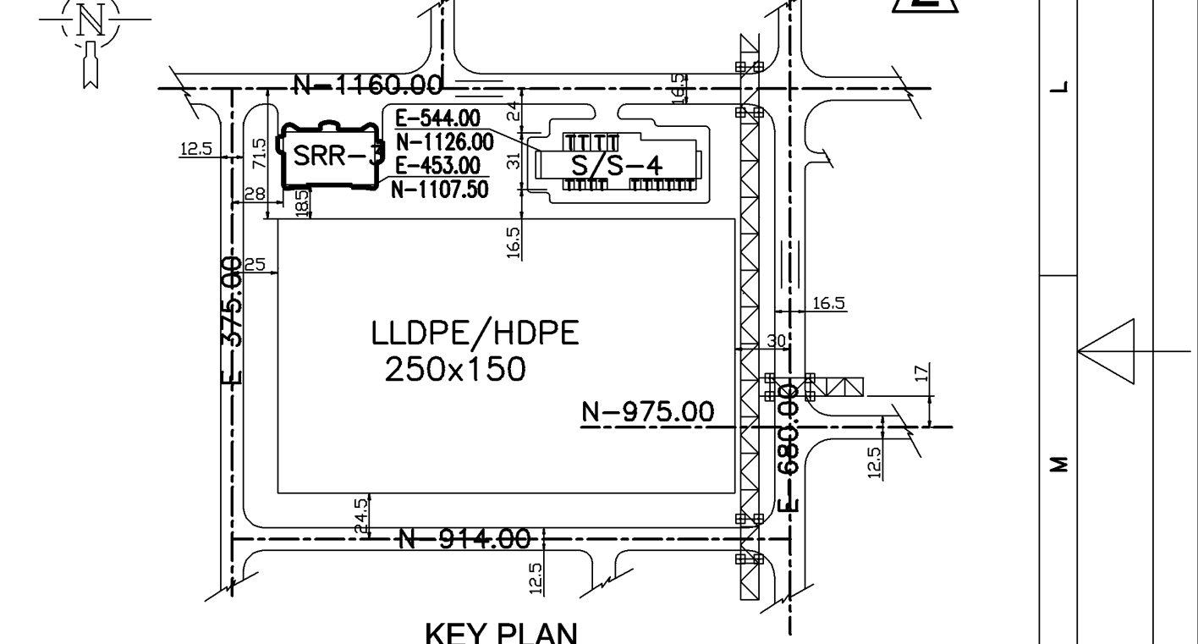
TAG.NO	EQUIPMENT	P&ID NO.		REMARKS
VALVES / DIVERTERS / FEEDER				
117-DV-431	GN-440 A/B BYPASS DIVERTER	1139		NOT SHOWN
117-DV-432	VV-430 RECYCLE DIVERTER	1139		NOT SHOWN
117-DV-433	GN-440 A/B SLECTION DIVERTER	1139		NOT SHOWN
117-DV-440	VV-440 RECIRCULATION DIVERTER	1140		NOT SHOWN
117-DV-442*	VV-440 BYPASS DIVERTER	1140		NOT SHOWN
117-DV-463	START-UP POWDER DIVERTER	1143		NOT SHOWN
117-DV-466	VV-440 RECYCLE DIVERTER	1140		NOT SHOWN
117-DV-847	SCREENER BYPASS VALVE	1160		NOT SHOWN
117-DV-848	PELLET FLOWMEATER BYPASS DIVERTER VALVE			NOT SHOWN
117-DV-850A/B/C/D	DIVERTER VALVES	1162		NOT SHOWN
117-DV-855	DIVERTER VALVE	1161		NOT SHOWN
117-DV-857	DIVERTER VALVE	1161		NOT SHOWN
117-DV-880A/B/C/D	DIVERTER VALVES	1162		NOT SHOWN
117-DV-881	RECYCLE SILO INLET DIVERTER	1162		NOT SHOWN
117-DV-882A/B/C/D	PELLET BLENDER OUTLET DIVERTER	1162		NOT SHOWN
117-DV-883	RECYCLE SILO OUTLET DIVERTER	1162		NOT SHOWN
117-DV-891	TI-890A/B DIVERTER	1165		NOT SHOWN
117-YF-380A/B	ZLEGLER CATALYST ROTARY VALVES	1126		NOT SHOWN
117-YF-386A/B/C *	CHROMIUM CATALYST ROTARY VALVES	1127		NOT SHOWN
117-YF-425	VV-425 OUTLET ROTARY VALVE	1138		NOT SHOWN
117-YF-430	VV-430 OUTLET ROTARY VALVE	1139		NOT SHOWN
117-YF-432	VV-430 RECYCLE ROTARY VALVE	1139		NOT SHOWN
117-YF-440	VV-440 OUTLET ROTARY VALVE	1140		NOT SHOWN
117-YF-441	GN-441 OUTLET ROTARY VALVE	1140		NOT SHOWN
117-YF-460	LZ-460 FEED ROTARY VALVE	1139		NOT SHOWN
117-YF-461	LZ-461 ROTARY VALVE			NOT SHOWN
117-YF-466A	VV-440 RECYCLE ROTARY VALVE	1140		NOT SHOWN
117-YF-466B	START-UP POWDER ROTARY VALVE	1143		NOT SHOWN
117-YF-490 *	VV-490 OUTLET ROTARY VALVE	1143		NOT SHOWN
117-YF-835A	SPARE FEEDER	1157		NOT SHOWN
117-YF-835B/F	ALL ADDITIVES / ANTIBLOCK FEEDER	1156, 57		NOT SHOWN
117-YF-835C/D	ANTIBLOCK FEEDER	1156, 57		NOT SHOWN
117-YF-835E	STEARATE FEEDER	1156		NOT SHOWN
117-YF-836	PEROXIDE FEEDER	1158		NOT SHOWN
117-YF-841	GN-841 OUTLET ROTARY VALVE	1158		NOT SHOWN
117-YF-850	PELLET CONVEYING HOPER ROTARY VALVE	1161		NOT SHOWN
117-YF-855	RETURN FEEDER	1161		NOT SHOWN
117-YF-880A/B/C/D	PELLET BLENDER ROTARY VALVES	1162		NOT SHOWN
117-YF-881	RECYCLE SILO ROTARY VALVE	1162		NOT SHOWN
117-YF-891A/B	ELUTRIATOR OUTLET ROTARY VALVES	1165		NOT SHOWN
117-YF-892A/B	ELUTRIATOR CYCLONE OUTLET ROTARY VALVES	1165		NOT SHOWN
117-XV-420 / 423	DOWNFLOW / UPFLOW WITHDRAWL VALVES	1136, 37		NOT SHOWN
MISCELLANEOUS				
117-GJ-892A/B	ELUTRIATOR CYCLONES	1165		
117-GJ-083	ACTIVATOR RUPTURE DISC CYCLONE			
117-GJ-400A/B	REACTOR GAS CYCLONES	1132		1600 ID X 6400
117-JA-089 *	CATALYST LOADING EJECTOR	1124		
117-JA-400A/B	FINES RECYCLE EJECTORS	1132		
117-JN-380A/B	ZLEGLER CATALYST INJECTIONS NOZZLES	1126		NOT SHOWN
117-JN-386A/B/C *	CHROMIUM CATALYST INJECTION NOZZLES	1128		NOT SHOWN
117-JN-409 A-E	LIQUID INJECTION NOZZLES	1134, 35		NOT SHOWN
117-JX-400	REACTOR VENT SILENCER	1131		
117-JX-930	ETHYLENE TREATER VENT SILENCER	1113		
117-JX-940	COMONOMER TREATER VENT SILENCER	1115		
117-JS-941	STATIC MIXTURE			
117-SC-820	EXTRUDER FIRST FEED SCREW	1155		—
117-SC-821	EXTRUDER SECOND FEED SCREW	1155		
117-TH-840	EXTRUDER HOPPER	1159		
117-TH-850	PELLET CONVEYING HOPPER	1161		1500 ID X 7500
117-TH-891A/B	RECEIVER HOPPERS	1165		
117-TI-880-A/B/C/B	PELLET BLENDERS			5500 ID X 18510
117-TI-881	RECYCLE SILO	1162		6000 ID X 21200
117-TI-855	RERUN PELLETS SILO	1161		5000 ID X 15930
117-TI-890-A/B	BAGGING SILOS	1166		—
117-TT-561	POLYMER WATER PIT	1183		
117-TT-562	OILY WATER PIT	1183		
117-TT-563	CHROMIUM OBSERVATION PIT			
117-TT-848	PELLET WATER TANK	1160		2550 Hx5500 Lx7000 W
117-XS-835A-F	FIBC UNLOADING STATIONS	1156, 57		
117-XS-836	BAG DUMP STATION (PEROXIDE)	1158		
117-YF-810	PELLET MASS FLOWMETER	1160		
117-ZX-840	EXTRUDER	1159		

* – FUTURE CHROMIUM EQUIPMENTS

BILL OF MATERIAL

TENDER ITEM NO.	DESCRIPTION	UNIT	QTY.
E402.01.01	EARTH ELECTRODE IN TEST PIT	NOS.	40
E403.01.02	50x6mm G.I. EARTH STRIP	MTR.	1000
E403.01.02	50x6mm G.I. EARTH STRIP (BY CIVIL CONTRACTOR)	MTR.	4000
E403.01.04	20x3mm G.I. STRIP (BY CIVIL CONTRACTOR)	MTR.	300
E404.01.01	10mm DIA. WIRE ROPE	MTR.	300
E404.01.02	16mm DIA. WIRE ROPE	MTR.	250
E404.01.03	8 SWG SOLID WIRE	MTR.	750
E405.01.01	G.I. EARTH PLATE	NOS.	90
BY ELECTRICAL CONTRACTOR	1CORE 185sqmm CU PVC CONDUCTOR (BY ELECT.)	MTR.	100
E404.03.01	25sqmm COPPER FLEXIBLE (300mm)	NOS.	LOT
E404.03.02	25sqmm COPPER FLEXIBLE (500mm)	NOS.	LOT
E404.03.03	25sqmm COPPER FLEXIBLE (1500mm)	NOS.	LOT

2



KEY PLAN

REV.	DATE	REVISIONS	BY	CHKD	APPD	PEM/PC
2	19.01.12	REVISED AS MARKED 2 & REISSUED FOR CONST.	VKS	RKS/HK	BRB	
1	07.12.11	REVISED AS/LATEST EQPT.L/O & REISSUED	VKS	RKS/HK	BRB	
0	15.02.10	ISSUED FOR CONSTRUCTION	VKS	RKS/VKJ	AKS/AK	

इंजीनियर्स इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
ENGINEERS INDIA LIMITED
(A Govt. of India Undertaking)

BCPL
ब्रहमपुत्र कैकर एवं पोलिमर लिमिटेड
BRAHMAPUTRA CRACKER AND POLYMER LIMITED
(A Joint Venture Company of GAIL (India) Ltd., OIL, NRL & Govt. of Assam)

ब्रहमपुत्र पैट्रोकैमिकल कॉम्पलैक्स
लेपेटकटा, डिब्रूगढ़ असम
एल.एल.डी.पी.ई./ एच.डी.पी.ई.प्लांट
(क्षमता 220,000 टी. पी. ए. ,
लाईसैंसर :- ईनोस टेक्नोलिजी)

BRAHMAPUTRA
PETROCHEMICAL COMPLEX
LEPETKATA, DIBRUGARH ASSAM
LLDPE / HDPE PLANT
(CAP. - 220,000 TPA ,
LICENSOR :- INEOS TECHNOLOGIES)

अर्थिगं व लाइटनिंग सुरक्षा व्यवस्था आरेख

EARTHING AND LIGHTNING PROTECTION LAYOUT

SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
1:350	6907	117	16	50	0301	2

3-1641-0500 REV.2 A0-1189 x 841

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