

Pipe Measurement

SL.No.	Line No.	From	To	Line Dia (inch)	Line Length in M	Insulation type	Min Temp amb. (in Deg C)	Max Temp (in Deg C)	Remarks
1	6"-P-013-3417-D1A	lean Gas Filter Downstream	Fuel metering isolation	6	23.45	Heat Tracing with insulation	6	50.42	Self regulating
2	6"-P-030-3401-D1A	Fuel metering isolation	Rich/lean tapping	8	50.42	Heat Tracing with insulation	6	50.42	Self regulating
3	8"-P-011-1101-A1A	Richy/Lean tapping	Fuel Gas XOD	8	50.42	Heat Tracing with insulation	6	50.42	Self regulating
4	6"-P-011-6801-B1A-H	Fuel Gas XOD after already insulated (heat traced portion)	Fuel Gas Conditioning Skid	6	49.55	Insulation + HT			
5	2"-P-013-3006-D1A	Scraper Dispatch Line	Near Train B	2	194.91	Insulation	0		
6	1"-P-011-3109-D1A	Tapping from 2"-P-013-3006-D1A Header	Primary Seal Gas Skid B/L	1	29.2	Insulation	6		
7	2"-P-011-1606A-D1A	BCL DISCHARGE HEADER TAPPING	Primary Seal Gas Skid B/L	2	35.4	Insulation	6		
8	2"-P-011-3108-B1K-IT	PRIMARY SEAL GAS SKID LP LINE B/L	LP COMPRESSOR B/L	2	10	Heat Tracing with insulation	6		
9	2"-P-011-3103-B1K-IT	PRIMARY SEAL GAS SKID HP LINE B/L	HP COMPRESSOR B/L	2	12	Heat Tracing with insulation	6		
10	1"-P-013-3109-D1A	Tapping from 2"-P-013-3006-D1A Header	Primary Seal Gas Skid B/L	1	40.75	Insulation	6		
11	2"-P-011-1606A-D1A	BCL DISCHARGE HEADER TAPPING	Primary Seal Gas Skid B/L	2	35.4	Insulation	6		
12	2"-P-011-3108-B1K-IT	PRIMARY SEAL GAS SKID LP LINE B/L	LP COMPRESSOR B/L	2	10	Heat Tracing with insulation	6		
13	2"-P-011-3103-B1K-IT	PRIMARY SEAL GAS SKID HP LINE B/L	HP COMPRESSOR B/L	2	12	Heat Tracing with insulation	6		

Consolidated

Size	Total length (M)	Fuel Gas XOD Dimension (M)
1"	69.95	Height: 7.85; OD: 1.344
2"	309.71	
6"	73	
8"	50.42	

Insulation only →
HT + Insulation

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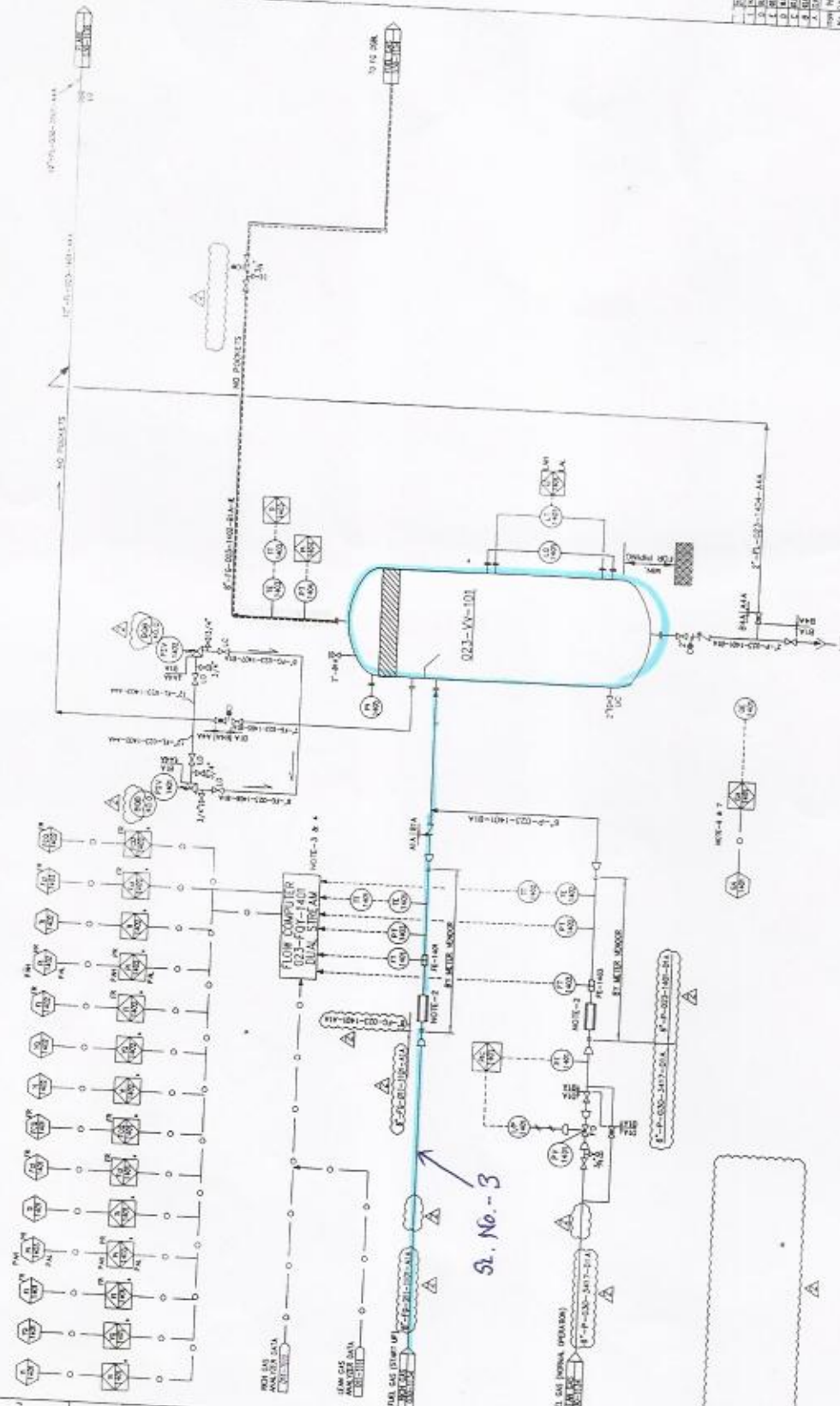
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1000



Sl. No. - 3

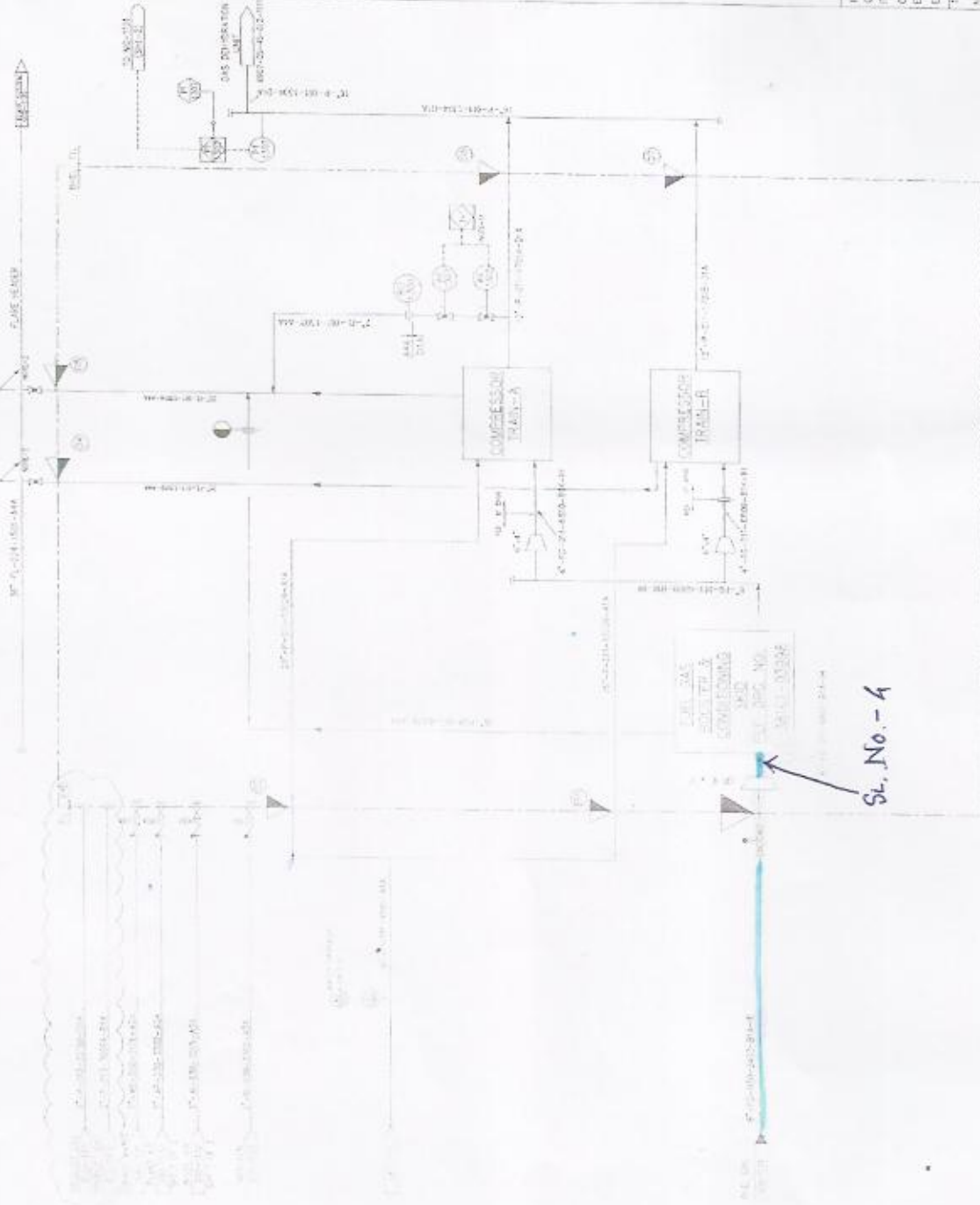
1. SOLID STATE: SiO_2 - SiO_2 is a very hard material. It is a very good insulator and is used in many electronic devices.
2. POLYMER: PE - PE is a very common polymer. It is used in many applications, such as plastic bags and pipes.
3. METAL: Fe - Fe is a very common metal. It is used in many applications, such as steel and iron.
4. CERAMIC: Al_2O_3 - Al_2O_3 is a very hard material. It is used in many applications, such as ceramics and refractories.
5. COMPOSITE: CFRP - CFRP is a very strong material. It is used in many applications, such as aircraft and sports equipment.
6. GLASS: SiO_2 - SiO_2 is a very hard material. It is used in many applications, such as windows and lenses.
7. RUBBER: NR - NR is a very elastic material. It is used in many applications, such as tires and seals.
8. PLASTIC: PC - PC is a very strong material. It is used in many applications, such as lenses and gears.
9. FIBER: Kevlar - Kevlar is a very strong material. It is used in many applications, such as bulletproof vests and ropes.
10. COATING: TiO_2 - TiO_2 is a very hard material. It is used in many applications, such as paint and coatings.
11. ADHESIVE: Epoxy - Epoxy is a very strong material. It is used in many applications, such as bonding and repair.
12. SEALANT: Silicone - Silicone is a very elastic material. It is used in many applications, such as seals and gaskets.
13. INSULATOR: Fiberglass - Fiberglass is a very strong material. It is used in many applications, such as insulation and reinforcement.
14. CONDUCTOR: Cu - Cu is a very good conductor. It is used in many applications, such as wiring and electronics.
15. SEMICONDUCTOR: Si - Si is a very good semiconductor. It is used in many applications, such as transistors and diodes.
16. DIELECTRIC: Al_2O_3 - Al_2O_3 is a very good dielectric. It is used in many applications, such as capacitors and insulators.
17. PIGMENT: TiO_2 - TiO_2 is a very good pigment. It is used in many applications, such as paint and coatings.
18. CATALYST: Pt - Pt is a very good catalyst. It is used in many applications, such as catalytic converters and chemical reactions.
19. SENSITIVE: Si - Si is a very sensitive material. It is used in many applications, such as sensors and detectors.
20. STABLE: Al_2O_3 - Al_2O_3 is a very stable material. It is used in many applications, such as refractories and ceramics.
21. DURABLE: CFRP - CFRP is a very durable material. It is used in many applications, such as aircraft and sports equipment.
22. EASY TO PROCESS: PE - PE is a very easy to process material. It is used in many applications, such as plastic bags and pipes.
23. CHEAP: Fe - Fe is a very cheap material. It is used in many applications, such as steel and iron.
24. HIGH STRENGTH: Kevlar - Kevlar is a very high strength material. It is used in many applications, such as bulletproof vests and ropes.
25. LOW WEIGHT: CFRP - CFRP is a very low weight material. It is used in many applications, such as aircraft and sports equipment.
26. HIGH TEMPERATURE: Al_2O_3 - Al_2O_3 is a very high temperature material. It is used in many applications, such as refractories and ceramics.
27. LOW TEMPERATURE: Si - Si is a very low temperature material. It is used in many applications, such as sensors and detectors.
28. HIGH CORROSION RESISTANCE: TiO_2 - TiO_2 is a very high corrosion resistance material. It is used in many applications, such as paint and coatings.
29. LOW CORROSION RESISTANCE: Fe - Fe is a very low corrosion resistance material. It is used in many applications, such as steel and iron.
30. HIGH ELECTRICAL CONDUCTIVITY: Cu - Cu is a very high electrical conductivity material. It is used in many applications, such as wiring and electronics.
31. LOW ELECTRICAL CONDUCTIVITY: Al_2O_3 - Al_2O_3 is a very low electrical conductivity material. It is used in many applications, such as capacitors and insulators.
32. HIGH THERMAL STABILITY: Al_2O_3 - Al_2O_3 is a very high thermal stability material. It is used in many applications, such as refractories and ceramics.
33. LOW THERMAL STABILITY: Si - Si is a very low thermal stability material. It is used in many applications, such as sensors and detectors.
34. HIGH MECHANICAL STABILITY: CFRP - CFRP is a very high mechanical stability material. It is used in many applications, such as aircraft and sports equipment.
35. LOW MECHANICAL STABILITY: PE - PE is a very low mechanical stability material. It is used in many applications, such as plastic bags and pipes.
36. HIGH CHEMICAL STABILITY: Al_2O_3 - Al_2O_3 is a very high chemical stability material. It is used in many applications, such as refractories and ceramics.
37. LOW CHEMICAL STABILITY: Fe - Fe is a very low chemical stability material. It is used in many applications, such as steel and iron.
38. HIGH OPTICAL STABILITY: TiO_2 - TiO_2 is a very high optical stability material. It is used in many applications, such as paint and coatings.
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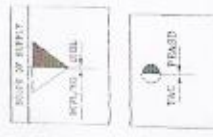
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100% GAS VENTILATION

(ALL DIMENSIONS ARE IN mm)



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SL. No. - 4

SL. No. - 4

PROJECT	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
OWNER	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
ITEM	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
CONSULTANT	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
EL. NO.	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
EL. NO.	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
TYPE OF PRODUCT	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
NAME OF CUSTOMER	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
DATE	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
SCALE	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
CHECKED BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
APPROVED BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
TITLE	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
PROCESS GAS P&ID	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
DATE	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
CHECKED BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH
APPROVED BY	INDUSTRIAL PETROCHEMICALS, COMPLEX, ANDHRA PRADESH

FIRST ANGLE PROJECTION

SCOTT'S BROTHERS

1. LUBE OIL PFI DIAGRAM
2. PRECINCT GAS PFI DIAGRAM

4275

1. ALL INSTRUMENT TAGS SHALL BE PROVIDED WITH UNIT NO./YR.
2. ALL LOCAL AND LOG MOUNTED INSTRUMENTS ARE IN FULL SCOPE OF SUPPLY.
3. FOR INTERLOCK TABLE, REFER LINE NO. PM DIAGRAM.

1550

↑
WENT TO ATM AT SAME LOCATION

VALUES	TAG NOS. RANGE		
	LINE NOS.	INSTRUMENTS	TERMINATION NOS.
10 2121-2130	P 2121-2133	PT/PT POT./POT.	28
20 2131-2142	Q 2131-2142		PACKAGES
30 2143-2151	R 2143-2151	1001-1075	
40 2152-2158	S 2152-2158		
50 2159-2163	T 2159-2163	1001-1075	
60 2164-2170	U 2164-2170	1001-1075	
70 2171-2173	V 2171-2173	1001-1075	
80 2174-2178	W 2174-2178	1001-1075	



STATUS - FOR APPROVAL

BRUNNEN 104 PETROCHEMICAL COMPLEX ASSUM

PRODUCT
BRAND

OWNER
CT DRIVEN RICH GAS COMPRESSOR

NEW
: GI GROWTH HIGH AND COMPRESSION
: EIT NEW HIGH

CONSULTANT	:-	ETL, NEW DELHI
SI DATE M-2	:-	6903-02-41-011-1141

1411-110-2-73-1020 1 \$ ON CR84 77

RICH GAS COMPRESSOR

NAME OF PROJECT
BCPL ASSAM

NAME	DOB	SEX	AGE	NO. OF

	CONCAT HEAVY ELECTRICALS LTD. 375031040		0624M AM	18-24 °C	Vol.
	0000	0000	0000	0000	0000

DATE	BY	REMARKS	INITIALS
10.24.10	SA	10.24.10	
10.24.10	SA	10.24.10	

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ITC	CASE	DRAWING NO.	REV
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Seal Gas F&I DIAGRAM
1-336-00-31131 03

compressor train A-type 6000	N/A	SRT No	2	NO OF SRT	2
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10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Case 5 of 6

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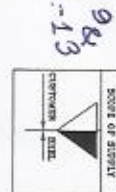
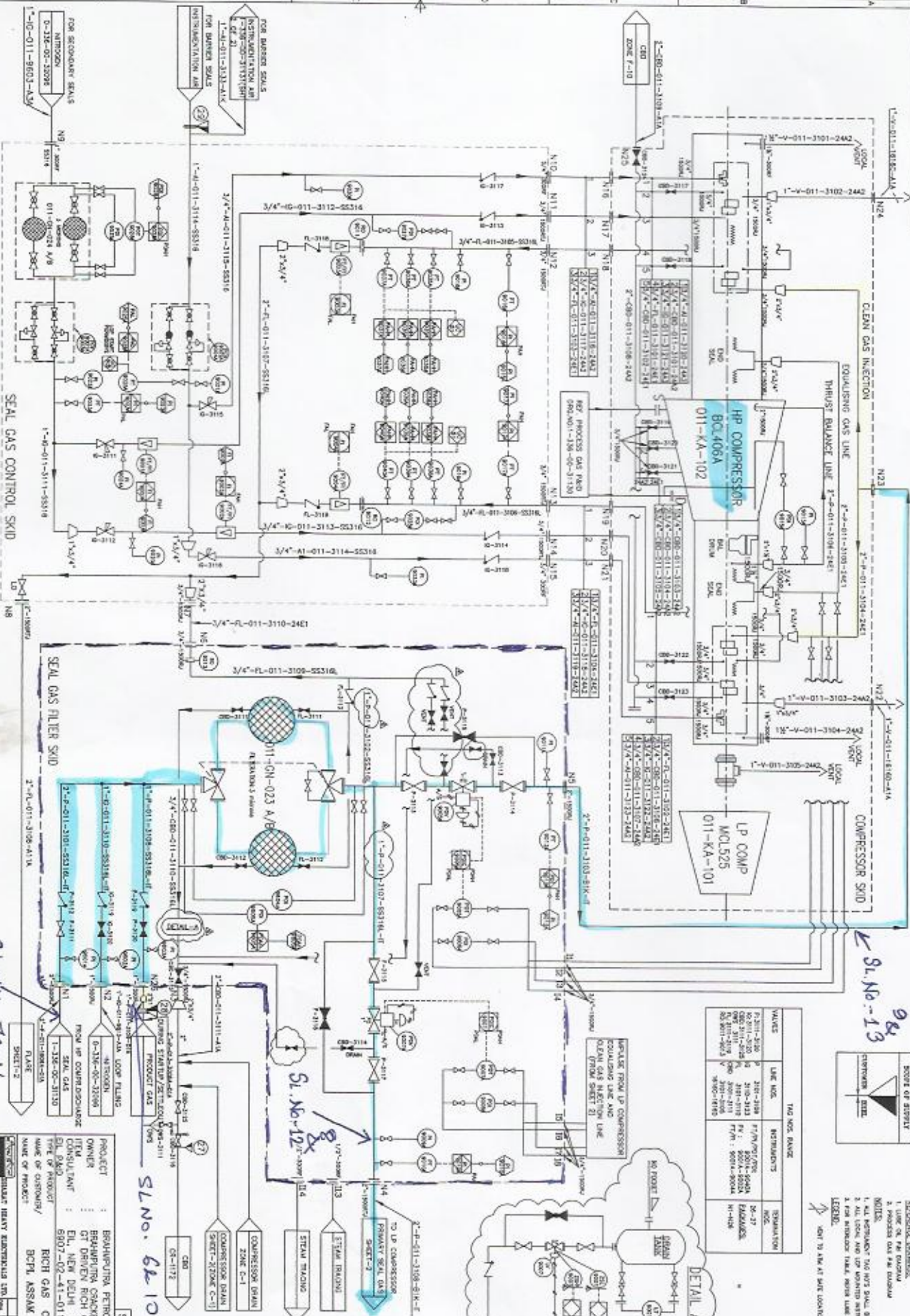
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INVESTMENT NO.	NON-ANNUAL	DATE
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001 | 04 JAN 1994

FIRST ANGLE PROJECTION

15116-00-953-1 ON SHD 2148 A 14 14 14



- REVISIONS**
- | NO. | DATE | DESCRIPTION |
|-----|----------|------------------------|
| 1 | 01-10-88 | ISSUED FOR FABRICATION |
| 2 | 01-10-88 | FOR REVIEW |
| 3 | 01-10-88 | FOR REVIEW |
| 4 | 01-10-88 | FOR REVIEW |
| 5 | 01-10-88 | FOR REVIEW |
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- NOTES**
1. ALL DIMENSIONS ARE IN MM.
 2. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER OF GRAVITY.
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VALUES	LINE NOS.	REMARKS	REVISION
1. 15116-00-953-1	1	ISSUED FOR FABRICATION	01-10-88
2. 15116-00-953-1	2	FOR REVIEW	01-10-88
3. 15116-00-953-1	3	FOR REVIEW	01-10-88
4. 15116-00-953-1	4	FOR REVIEW	01-10-88
5. 15116-00-953-1	5	FOR REVIEW	01-10-88
6. 15116-00-953-1	6	FOR REVIEW	01-10-88
7. 15116-00-953-1	7	FOR REVIEW	01-10-88
8. 15116-00-953-1	8	FOR REVIEW	01-10-88
9. 15116-00-953-1	9	FOR REVIEW	01-10-88
10. 15116-00-953-1	10	FOR REVIEW	01-10-88

PROJECT : BHARAT HEAVY ELECTRICALS LTD.

OWNER : BHARAT HEAVY ELECTRICALS LTD.

DESIGNER : BHARAT HEAVY ELECTRICALS LTD.

CHECKER : BHARAT HEAVY ELECTRICALS LTD.

DATE : 01-10-88

SCALE : 1:1

TITLE : SEAL GAS COMPRESSOR

NO. : 15116-00-953-1

REV. : 1

DATE : 01-10-88

BY : BHARAT HEAVY ELECTRICALS LTD.

FOR : BHARAT HEAVY ELECTRICALS LTD.

APPROVED : BHARAT HEAVY ELECTRICALS LTD.

DATE : 01-10-88

PAP-6 86