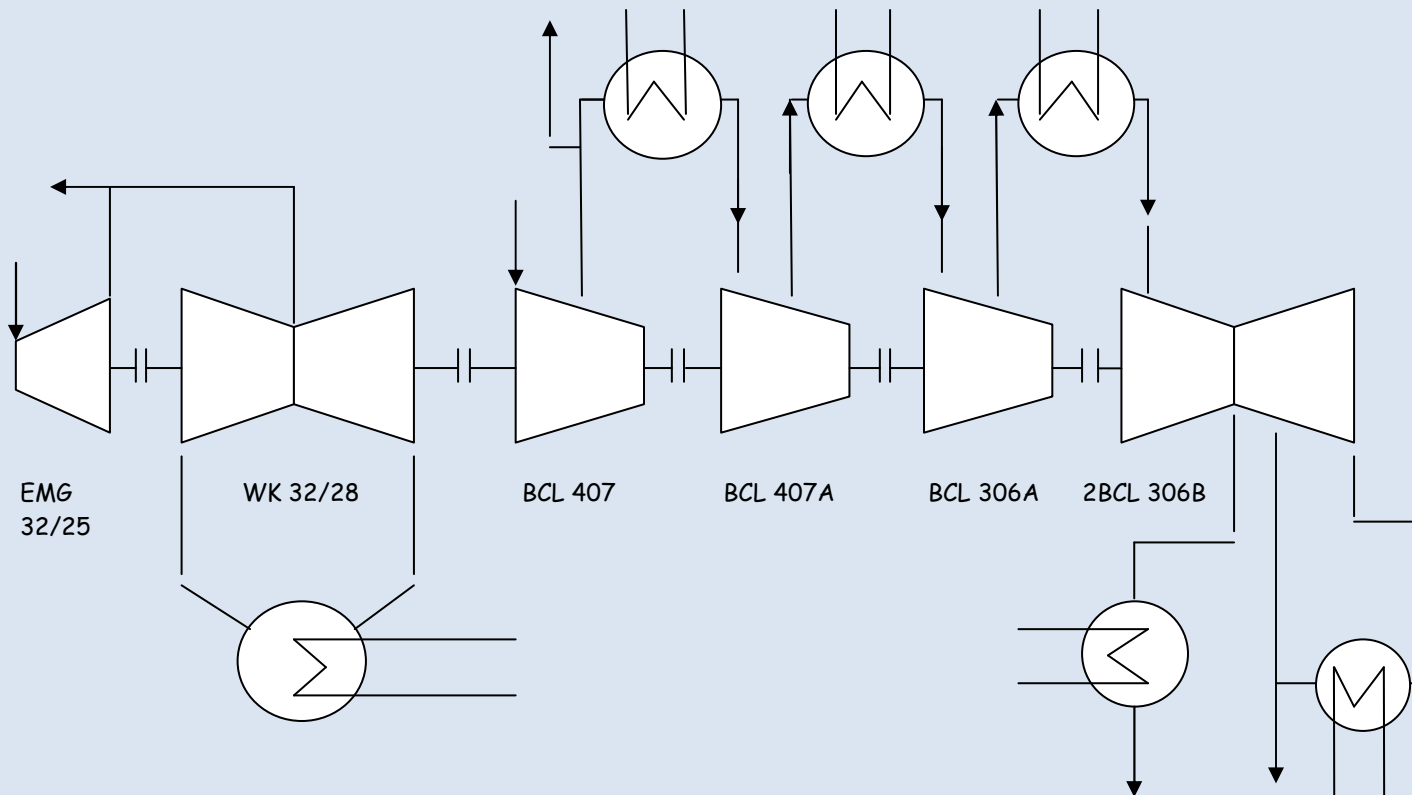


Disposal of complete unit of Synthesis Gas Compressor along with its auxiliaries & spares by RCF

SCHEMATIC SKETCH (SHOWING CASINGS, COOLER & DRIVER)

ANNEX-I



STEAM TURBINE

ANNEX-II

TYPE OF MACHINE: EMG 32/25 + WK 32/28

OPERATING CONDITION	UNITS	NORMAL	MAXIMUM	MINIMUM
Inlet Pressure	Kg/cm ² abs	101	111	100
Inlet Temperature	°C	480	510	480
1 st Extraction Pressure	Kg/cm ² abs	39	44	
1 st Extraction Temperature	°C	368	420	
1 st Extraction Flow	T/hr.	182	200	160
Condensing Pressure	Kg/cm ² abs	0.14 (At Turbine Flange)		
Exhaust Temperature	°C	52.2 (At Cond. Rate) with 200 T/H Ext.		
THERMODYNAMICS DATA				
		Normal Point of Driven Equipment	Rated Point of Driven Equipment	Rating Of Turbine
Output at Coupling	KW	18220	20565	22830
Steam Consumption with Normal Ext. Flow	T/hr.	218	228	
Specific Steam Consumption	Kg/KWh	11965		
Steam Consumption with Max. Flow	T/hr.	232	243	252
Speed	RPM	13400	14000	14000
Minimum Inlet Pressure	Ata/°C	101/450	98/470	95/460
Min. permissible No Load Running Steam Parameter	Ata/°C	39/400		

DISCRIPTION	UNITS	CASING DESIGNATION	
		H. P. CASING	L. P. CASING
Wheel Chamber Pressure at	Kg/cm ² abs	61.3	21
Max. Allowable Wheel Chamber Pressure	Kg/cm ² abs	74.1	34.1
Max. Steam Capacity	T/hr.	252	--
Max. Condenser Flow	T/hr.	52	--
Leaving Losses	Kcal/kg	--	13
Dryness Fraction		0.919	
Normal Speed	RPM	13400	
Rated Speed 100%	RPM	14000	
Max. Continuous Speed	RPM	14700	
Max. Allowable Speed	RPM	14700	
Trip Speed	RPM	16150	
Over Speed Test	RPM	18400	
1 st Lateral Critical Speed	RPM	According To API	
2 nd Lateral Critical Speed	RPM	According To API	
Speed Range		80-105%	

Direction of Rotation viewed from Turbine to Compressor	Clockwise
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COMPRESSOR

ANNEX-III

DETAILS FROM COMPRESSOR NAME PLATE

DESCRIPTION	1 st BARREL	2nd BARREL	3 rd BARREL	4 th BARREL
SERIAL NO.	035	036	037	039
YEAR	1979	1979	1979	1979
TYPE	BCL 407	BCL 407/A	BCL 306/A	2 BCL 306/B
SYN. GAS CAPACITY (M ³ /hr)	5315	2355	1223	781
RECYCLE CAPACITY	-	-	-	2432
DELIVERY PRESSURE (ata)	60	115	187.2	265
POWER (Kw)	5339	4476	3641	4564
NORMAL SPEED (RPM)	13400	13400	13400	13400
MAXIMUM CONTINUOUS SPEED (RPM)	14700	14700	14700	14700
FIRST CRITICAL SPEED (RPM)	5280	5770	6120	6300
CASING DESIGN PRESSURE (ata)	75	145	220	305
CASING DESIGN TEMPERATURE (°C)	200	200	200	200

OPERATING CONDITION FOR COMPRESSOR

INLET CONDITION	UNITS	NORMAL MAKE UP	RATED MAKE UP	RECYCLE	
				NORMAL	RATED
Flow (dry basis)	NM ³ /hr	110684	121780	475161	521541
Flow (dry basis)	Kg/hr	42863.2	47160.27	219624.7	241062
Relative Humidity	%	100	100	0*	0
Pressure	Kg/cm ² abs	26	26	257	257
Temperature	°C	40	40	33	33
OUTLET CONDITION					
Flow (dry basis)	NM ³ /hr.	108160	118980	463750	510130
Pressure	Kg/cm ² abs	262	262	275	275
Temperature	°C	40	40	43	435
1 st Extraction / Flow	NM ³ /hr	2524	2800		
1 st Extraction / Pressure	Kg/cm ² abs	60.0	60.5		
1 st Extraction / Temperature	°C	171	177		
Expected loss of gas (if recovery not working)	NM ³ /hr.	0.2- 0.3 %			

THERMODYNAMIC DATA (NORMAL)

DISCRIPTION	UNITS	PROCESS STAGE				
		1st	2nd	3rd	4th	RECYCLE
INLET CONDITION *						
ACTUAL FLOW	M ³ /hr	5302	2283	1224	781.6	2497
RELATIVE HUMIDITY	%	100	100	100	100	0
PRESSURE	Kg/cm ² abs.	25.2	59	113.2	185	256.5
TEMPERATURE	C°	40	43	43	43	33
COMPRESSIBILITY FACTOR		1.016	1.037	1.068	1.11	1.164
MOLUCALAR WEIGHT (DRY)		8.68	8.68	8.68	8.68	10.36

GAS CONSTANT (WET GAS)	M kg/kg °K	96.96	97.42	97.5	97.54	81.0
Cp / Cv		1.4	1.4	1.4	1.4	1.4
OUTLET CONDITION *						
PRESSURE	Kg/cm ² abs.	60	115	187.2	265	275.7
TEMPERATURE	C°	171	148	125	103	43
COMPRESSIBILITY FACTOR		1.03	1.058	1.098	1.144	1.17
Cp / Cv		1.4	1.4	1.4	1.4	1.4
PRESSURE DROP IN PIPING AND COOLER	Kg/cm ²	1.0	1.5	2.2		
ACTUAL FLOW	M ³ /hr	-	-	-	-	-
PRESSURE RATIO		2.381	1.949	1.654	1.432	1.075
POLYTROPIC EXPONENT (n / n-1)		0.404	0.4303	0.4593	0.4549	0.382
POLYTROPIC HEAD	Kg m/kg	32298	24907	18811	13722	2139
POLYTROPIC EFFICIENCY	%	70.7	66.4	62.2	62.8	74.8
GAS POWER	kW	5391	4316	3470	2498	1835
MECHANICAL LOSSES	kW	710				
GEAR LOSSES	kW	-	-	-	-	-
TOTAL POWER CONSUMPTION **	kW	18220				
RECOMMENDED POWER OF DRIVER	kW					
SURGE LIMIT AT CONSTANT PRESSURE RATIO	%					
BLOW OF LIMIT AT CONSTANT PRESSURE RATIO	%	63				
MACHINE MACH NO. AT INLET	<	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
MACHINE MACH NO. AT OUTLET		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

THERMODYNAMIC DATA (RATED)						
DISCRIPTION	UNITS	PROCESS STAGE				
		1st	2nd	3rd	4th	RECYCLE
INLET CONDITION *						
ACTUAL FLOW	M ³ /hr	5833	2485	1325	858.3	2740
RELATIVE HUMIDITY	%	100	100	100	100	0
PRESSURE	Kg/cm ² abs.	25.2	59.6	115	185.3	256.5
TEMPERATURE	C°	40	43	43	43	33
COMPRESSIBILITY FACTOR		1.016	1.032	1.07	1.114	1.164
MOLUCALAR WEIGHT (DRY)		8.68	8.68	8.68	8.68	8.68
GAS CONSTANT (WET GAS)	M kg/kg °K	96.96	97.42	97.5	97.54	81.0
Cp / Cv		1.4	1.4	1.4	1.4	1.4
OUTLET CONDITION *						
PRESSURE	Kg/cm ² abs.	60.5	116.5	187.6	266.0	275.9
TEMPERATURE	C°	177	150	126	105	43.5
COMPRESSIBILITY FACTOR		1.03	1.058	1.098	1.144	1.17
Cp / Cv		1.4	1.4	1.4	1.4	1.4
PRESSURE DROP IN PIPING AND COOLER	Kg/cm ²	0.9	1.5	2.3	9.5	
ACTUAL FLOW	M ³ /hr	-	-	-	-	-
PRESSURE RATIO		2.401	1.955	1.631	1.436	1.076

POLYTROPIC EXPONENT (n / n-1)		0.4135	0.445	0.481	0.5039	0.3898
POLYTROPIC HEAD	Kg m/kg	32834	24384	18339	13784	2162
POLYTROPIC EFFICIENCY	%	69.1	64.2	59.4	56.7	73.3
GAS POWER	kW	6172	4802	3896	3065	1920
MECHANICAL LOSSES	kW	710				
GEAR LOSSES	kW	-	-	-	-	-
TOTAL POWER CONSUMPTION **	kW	20565				
RECOMMENDED POWER OF DRIVER	kW					
SURGE LIMIT AT CONSTANT PRESSURE RATIO	%					
BLOW OF LIMIT AT CONSTANT PRESSURE RATIO	%	57				
MACHINE MACH NO. AT INLET	<	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
MACHINE MACH NO. AT OUTLET		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

DETAILS OF CASING NOZZLES

NOZZLES	RATING	SIZE	FACING	FLANGE STANDARD	ORIENTATION
FIRST SUCTION	600#	10"	RJ	ASA	DOWN
FIRST DISCHARGE	600#	08"	RJ	ASA	DOWN
SECOND SUCTION	1500#	08"	RJ	ASA	DOWN
SECOND DISCHARGE	1500#	08"	RJ	ASA	DOWN
THIRD SUCTION	1500#	08"	RJ	ASA	DOWN
THIRD DISCHARGE	1500#	06"	RJ	ASA	DOWN
FORTH SUCTION	2500#	06"	RJ	ASA	DOWN
FORTH DISCHARGE	2500#	04"	RJ	ASA	DOWN-LATERAL
RECYCLE SUCTION	2500#	10"	RJ	ASA	DOWN
RECYCLE DISCHARGE	2500#	10"	RJ	ASA	UP

COMPRESSOR DESIGN

DESCRIPTION	UNIT S	CASING				
		1ST	2ND	3RD	4TH	Recycle
Normal Speed	RPM	13400	13400	13400	13400	13400
100% Speed	RPM	14000	14000	14000	14000	14000
Speed Range	%	80-105 %				
Max. Continuous Speed	RPM	14700	14700	14700	14700	14700
Trip Speed	RPM	16170	16170	16170	16170	16170
Trip At Max. Continuous Speed	RPM	330.9	307.8	284.78	269.39	
Over Speed	RPM					
Driver Speed (Normal)	RPM	13400	13400	13400	13400	13400
1 st Critical Lateral Speed	RPM	6200	6200	7300	6600	
2 nd Critical Lateral Speed	RPM	Above 120% of max. continuous speed				
Rotation Of Compressor Viewed from Coupling		Clockwise				

DETAILS OF AUXILIARIES OLD SYNTHESIS GAS COMPRESSOR:-

ANNEX-IV

a. FIRST STAGE COOLER (E-432) -1 no

MAKE: - BHEL

DRG NO.: - OC-48-0151(OLD) / 1-16503-40739(NEW)

NO. OF TUBES: - 312 U-TUBES

WEIGHT: - 8600 Kg

SURFACE AREA: - 308.68 SQ M (APPROX.)

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (Kg/ SQ cm)	08	75
DESIGN TEMP (°C)	80	200
NO OF PASSES	1	2
FLUID HANDELED	WATER	SYN GAS

MATERIAL OF CONSTRUCTION: -

SHELL PLATE	DIN 17155-H II
CHANNEL PLATE	ASTM A 515GR. 60
SHELL FLANGE	ASTM A-105
CHANNEL FLANGE	ASTM A-105
TUBE SHEET	SA 266 GR. 2 WITH OVER LAY
U-TUBES (DUPLX STEEL)	SA 789 S-31803
DISHED END(SHELL)	DIN 17155-H II
DISHED END(CHANNEL)	SA 515GR. 60
BAFFLE PLATE	SA 240 TY 304
TIE ROD	SS 304
SPACERS	SA 249 TP 304

b. SECOND STAGE COOLER (E-433) -1 no

MAKE: - BHEL / PRECISION EQUIPMENTS (CHENNAI) PVT LTD.

DRG NO.: - OC-48-0152 (REV 2), TUBE BUNDLE - PE/452/TB-152/03 (REV 2)

NO. OF TUBES: - 276 U-TUBES

TOTAL WEIGHT: - 9000 Kg

BUNDLE WEIGHT: - 5360 Kg

TOTAL SURFACE AREA OF TUBES: - 225 SQ M (APPROX.)

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (Kg/ SQ cm)	08	145
DESIGN TEMP (°C)	80	200
NO OF PASSES	1	2
FLUID HANDELED	WATER	SYN GAS

MATERIAL OF CONSTRUCTION: -

SHELL PART	ASTM A 515 / 60
CHANNEL PART	DIN 17155 H IV
SHELL FLANGE	ASTM A-105
CHANNEL FLANGE	ASTM A-105
TUBE SHEET	SA 105 + SS 304 W.D.
U-TUBES	SA 213 TP 304
DISHED END(SHELL)	DIN 17155-H II
DISHED END(CHANNEL)	ASTM A 515 / 70
BAFFLE PLATE	SA 240 GR 304
TIE ROD	SS 304
SPACERS	SA 213 TP 304

c. THIRD STAGE COOLER (E-434) -1 no

MAKE: - BHEL / PRECISION EQUIPMENTS (CHENNAI) PVT LTD.
DRG NO.: - OC-48-0163 (REV 3), TUBE BUNDLE - PE/451/TB-163/03 (REV 1)
NO. OF TUBES: - 242 U-TUBES
TOTAL WEIGHT: - 13100 Kg
BUNDLE WEIGHT: - 8060 Kg
TOTAL SURFACE AREA OF TUBES: - 212 SQ M (APPROX.)

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (Kg/ SQ cm)	08	220
DESIGN TEMP (°C)	80	200
NO OF PASSES	1	2
FLUID HANDELED	WATER	SYN GAS

MATERIAL OF CONSTRUCTION: -

SHELL PART	DIN 17155 H II
CHANNEL PART	ASTM A-105
SHELL FLANGE	ASTM A-105
TUBE SHEET	SA 105 + SS 304 W.D.
U-TUBES	SA 213 TP 304
DISHED END(SHELL)	ASTM A 515 / 60
END COVER (CHANNEL)	ASTM A-105
BAFFLE PLATE	SA 240 GR 304
TIE ROD	SS 304
SPACERS	SA 213 TP 304

d. FORTH STAGE COOLER (E-435) -1 no

MAKE: - THE ANUP ENGINEERING LTD., AHMEDABAD.
DRG NO.: - H-712 / 2001 / 1
NO. OF TUBES: - 267 U-TUBES
TOTAL WEIGHT: - Kg
TOTAL SURFACE AREA OF TUBES: - 236 SQ M (APPROX.)

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (Kg/ SQ cm)	8.0	305.0
DESIGN TEMP (°C)	80	200
NO OF PASSES	1	2
FLUID HANDELED	WATER	SYN GAS

MATERIAL OF CONSTRUCTION: -

SHELL PART	DIN 17155 H II
CHANNEL PART	SA-105
SHELL FLANGE	SA-105
TUBE SHEET	SA 105 + SS 304 W.D.
U-TUBES	SA 789 GR. S31803
DISHED END(SHELL)	SA 516 GR.60 / 70
END COVER (CHANNEL)	SA-105
BAFFLE PLATE	SS 304
TIE ROD	SS 304
SPACERS	SA 789 GR. S31803

e. BYPASS COOLER (E-436) -1no

MAKE: - BHEL
DRG NO.: - OC-48-0165
NO. OF TUBES: - 157 U-TUBES

WEIGHT: - 8700 Kg

SURFACE AREA: - 65 SQ M (APPROX.)

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (Kg/ SQ cm)	8.0	305.0
DESIGN TEMP (°C)	80	200
NO OF PASSES	1	2
FLUID HANDELED	WATER	SYN GAS

MATERIAL OF CONSTRUCTION: -

SHELL PART	DIN 17155-H II
CHANNEL PART	ASTM A 105
SHELL FLANGE	ASTM A 105
CHANNEL FLANGE	ASTM A 105
TUBE PLATE	ASTM A 105
U-TUBES	ASTM A 210 / C
DISHED END(SHELL)	ASTM A 515 / 60
END COVER (CHANNEL)	ASTM A 105
BAFFLE PLATE	ASTM A 515 / 60
TIE ROD	IS 226
SPACERS	ASTM A 179

f. SURFACE CONDENSER -1 no

MAKE: - BHEL

DRG NO.: - O-15-2097

NO. OF TUBES: - 3230

WEIGHT: - 30000 Kg

DESCRIPTION	SHELL	CHANNEL
DESIGN PRESSURE (atg)	2.0 + VACUUM	7.0
DESIGN TEMP (°C)	80	200
FLUID HANDELED	STEAM	WATER

MATERIAL OF CONSTRUCTION: -

SHELL PART	DIN 17155-H II
CHANNEL PART	ASTM A 105
SHELL FLANGE	ASTM A 105
CHANNEL FLANGE	ASTM A 105
TUBE PLATE	ASTM A 105
CONDENSER TUBES	ALU. BRASS
DISHED END(SHELL)	ASTM A 515 / 60
END COVER (CHANNEL)	ASTM A 105
BAFFLE PLATE	ASTM A 515 / 60
TIE ROD	IS 226
SPACERS	ASTM A 179

g. SYN GAS SEPERATOR -1 no

MAKE: - BHEL

DRG NO.: - 4C-48-5376

WEIGHT: - 1500 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	32.0
DESIGN TEMP (°C)	100
MEDIUM	SYN GAS
QTY. OF GAS HANDLED (DRY) (NM ³ /Hr)	122100
QTY. OF CONDENSATE (Kg / Hr)	40

PRESSURE DROP	550 mm H2O
---------------	------------

MATERIAL OF CONSTRUCTION: -

SHELL	ASTM A 515 / 60
HEADS	ASTM A 515 / 60
FLANGES	ASTM A 105
INTERNALS	AISI 304
NOZZLES	ASTM A 106 / B

h. CONDENSATE TANK FIRST STAGE (T-432) -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0262

WEIGHT: - 180 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	75.0
DESIGN TEMP (°C)	60
MEDIUM	SYN GAS +H2O

MATERIAL OF CONSTRUCTION: -

SHELL	ASTM A 106 / B
PIPE	SA 333 / B
FLANGES	ASTM A 105
PLATES	ASTM A 515 / 60

i. CONDENSATE TANK SECOND STAGE (T-433) -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0263 (REV A4)

WEIGHT: - 180 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	145.0
DESIGN TEMP (°C)	60
MEDIUM	SYN GAS +H2O

MATERIAL OF CONSTRUCTION: -

SHELL	ST 45.8
PIPE	SA 333 GR 6
FLANGES	ASTM A 105
PLATES	ASTM A 515 / 60
DISHED ENDS	ASTM A 516 / 60

j. CONDENSATE TANK THIRD STAGE (T-434) -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0264 (REV A5)

WEIGHT: - 165 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	220.0
DESIGN TEMP (°C)	60
MEDIUM	SYN GAS +H2O

MATERIAL OF CONSTRUCTION: -

SHELL	ASTM A 106 / B
PIPE	SA 333 / B
FLANGES	ASTM A 105
PLATES	ASTM A 515 / 60
END COVERS	DIN 17155 GR IV

k. CONDENSATE TANK FOURTH STAGE (T-435)- 1no

MAKE: - BHEL

DRG NO.: - 1C-48-0265

WEIGHT: - 220 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	305.0
DESIGN TEMP (°C)	60
MEDIUM	SYN GAS +H2O

MATERIAL OF CONSTRUCTION: -

SHELL	DIN 1629
PIPE	SA 333 GR 6
FLANGES	ASTM A 105
PLATES	ASTM A 515 / 60
END COVERS	DIN 17155 H IV

l. SEAL OIL DISCHARGE TANK FIRST STAGE -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0247

WEIGHT: - Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	
DESIGN TEMP (°C)	80
MEDIUM	SYN GAS + OIL

MATERIAL OF CONSTRUCTION: -

SHELL	
HEAD	
FLANGES	
SADDLES	

m. SEAL OIL DISCHARGE TANK SECOND STAGE -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0248 (REV 2)

WEIGHT: - 320 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	75.0
DESIGN TEMP (°C)	80
MEDIUM	SYN GAS + OIL

MATERIAL OF CONSTRUCTION: -

SHELL	ASTM A 105
HEAD	ASTM A 515 / 60
FLANGES	ASTM A 105
SADDLES	ASTM A 515 / 60
DISHED ENDS	ASTM A 515 / 60

n. SEAL OIL DISCHARGE TANK THIRD STAGE -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0249

WEIGHT: - Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	

DESIGN TEMP (°C)	80
MEDIUM	SYN GAS + OIL

MATERIAL OF CONSTRUCTION: -

SHELL	
HEAD	
FLANGES	
SADDLES	

o. SEAL OIL DISCHARGE TANK FOURTH STAGE -1 no

MAKE: - BHEL

DRG NO.: - 1C-48-0250 (REV 1)

WEIGHT: - 520 Kg

DESCRIPTION	
DESIGN PRESSURE (Kg/ SQ cm)	220.0
DESIGN TEMP (°C)	80
MEDIUM	SYN GAS + OIL

MATERIAL OF CONSTRUCTION: -

SHELL	ASTM A 105
HEAD	ASTM A 105
FLANGES	ASTM A 105
SADDLES	DIN 17155 H II

p. Twin lube oil cooler:-

MAKE: - BHEL

Srl No- 0117A & 0117B

Type- Horizontal conforming to ASME Sec- VIII, Div-I 1977 & TEMA-R

DESCRIPTION	
MAX ALLOWABLE WORKING PRESSURE (Kg/ SQ cm)	12
DESIGN TEMP (°C)	80
HYDRO TEST PRESS (Kg/ Cm2)	18

MOC-

SHELL- DIN 17155

TUBE SHEET STATIONARY- A182 F304

TUBE SHEET FLOATING- A240 TP 316

TUBES- A213 TP 304- $\frac{3}{4}$ " x 14 BWG

NO. OF TUBES- 656

TYPE- STRAIGHT

q. LO Pumps with Motors - 2nos ; Make- Allweiler; Model- SNM 2900R40U6S; =2800L/M;v=27.8mm/s2; n=1450

r. HP Seal Oil Pumps with motors -3 nos; Make=IMO; Type= D6 045 K3 SRBZ;n=2950

s. Lube oil tank -1 no

t. LP SOP Without motor-1 no

u. ALL INTERCONNECTED PIPING ALONG WITH VALVES UP TO BATTERY LIMIT WITH LOCAL

v. CONTROL PANEL

Note - 2 nos CONDENSATE PUMPS with motor is not part of this sale

OLD SYNGAS TURBINE SPARES

ANNEX-V

OLD SYNGAS TURBINE SPARES					
Sn	Material	Old material no.	Material description	BUn	Total stock
1	300032339	V3350400011	SEALING FINS OD 170 MM	ST	1
2	300032340	V3350400020	SEALING FINS OD 210 MM FOR HP DIAPHRAM	ST	1
3	300032341	V3350400031	SEALING FINS OD 195 MM	ST	1
4	300032342	V3350400042	SEALING FINS OD 185 MM X 24 NOS.	NO	1
5	300032343	V3350400053	SEALING FINS OD 175 MM X 40 NOS.	ST	1
6	300032344	V3350400064	CAULKING WIRE 1.6 MM SQ.	M	100
7	300032345	V3350400075	CAULKING WIRE 2 MM SQ. CROSS SECTION	M	100
8	300032346	V3350400084	CAULKING WIRE 1.2 MM SQ.	M	100
9	300032351	V3350401001	FRONT OIL GLAND ASSY-EMG	NO	1
10	300032352	V3350402000	REAR OIL GLAND ASSEMBLY-EMG	NO	1
11	300032353	V3350403001	FRONT STEAM GLAND ASSEMBLY-EMG	NO	1
12	300032354	V3350404002	REAR STEAM GLAND ASSEMBLY-EMG	NO	1
13	300032355	V3350405003	TK431/432-WK-FRONT OIL GLAND ASSEMBLY	NO	1
14	300032356	V3350406004	TK431/432-WK-REAR OIL GLAND ASSEMBLY	NO	1
15	300032360	V3350407121	SET OF PARTING PLANE BOLTS/NUTS-EMG	ST	1
16	300032361	V3350408004	TK431/432-WK-STEAM GLANDS 4 NOS	ST	1
17	300032368	V3350466175	TK431/432-GRAPHOIL CARBON RING	NO	40
18	300032369	V3350468291	LUBROID PLATES-FRONT BEARING HOUSING	NO	2
19	300032370	V3350468304	LUBROID PLATES-REAR BEARING HOUSING	NO	2
20	300032372	V3350475314	TK431/432-ESV-` O ' RING	NO	11
21	300032373	V3350479103	TK431/432-SEAL KIT-10"HYD.CYLINDER	ST	1
22	300032374	V3350479114	TK431/432-SEAL KIT-6" HYD.CYLINDER	ST	1
23	300032376	V3350483712	TK431/432-ESV-STEAM INLET STRAINER	NO	1
24	300032378	V3350498613	TK431/432-HP GOVERNING VALVE ASSEMBLY	ST	1
25	550000605	V3350479363	TK431432 EMGSEALING FINR T2123	NO	8
26	550000606	V3350479352	TK431432 EMG SEALING FINR T2123	NO	8
27	550000607	V3350479341	TK431432 EMG 32253SEALING FINT2447	NO	8
28	550000608	V3350479330	TK431432 EMG 32253SEALING FINT2447	NO	8
29	550000609	V3350479090	TK441SCREW GRUB SLOTTED M6X 16 MM	NO	28
30	550000667	V3350478984	TK431432 EMG 32253SEALING FIN T3847	NO	13
31	550000668	V3350478975	TK431432 EMG 32253SEALING FIN T3845	NO	2
32	550000671	V3350478942	TK431432 EMG 32253SEALING FIN T3841	NO	29

33	550000672	V3350478931	TK431432 EMG 32253SEALING FIN T3833	NO	5	
34	550000673	V3350478920	TK431432 EMG 32253SEALING FIN T3831	NO	5	
35	550000674	V3350478804	TK431432SHROUD T2698	NO	2	
36	550000675	V3350478793	TK431432SHROUD T2697	NO	2	
37	550000676	V3350478782	TK431432SHROUD T2696	NO	2	
38	550000677	V3350478771	TK431432SHROUD T2608	NO	2	
39	550000678	V3350478760	TK431432SHROUD T2607	NO	2	
40	550000679	V3350478751	TK431432SHROUD T2606	NO	2	
41	550000680	V3350478742	TK431432SHROUD T2446	NO	2	
42	550000681	V3350478733	TK431432SHROUD T2444	NO	2	
43	550000682	V3350478724	TK431432SHROUD T2443	NO	2	
44	550000683	V3350478715	TK431432SHROUD T2439	NO	2	
45	550000684	V3350478704	TK431432SHROUD T2438	NO	4	
46	550000685	V3350478691	TK431432SHROUD T2437	NO	2	
47	550000692	V3350478624	TK431432SHROUD T2418	NO	2	
48	550000693	V3350478613	TK431432SHROUD T2417	NO	2	
49	550000751	V3350478602	TK431432SHROUD T2416	NO	2	
50	550000752	V3350478591	TK431432SHROUD T2411	NO	2	
51	550000753	V3350478582	TK431432SHROUD T2410	NO	4	
52	550000754	V3350478573	TK431432SHROUD T2409	NO	2	
53	550000758	V3350478533	TK431432SHROUD T2397	NO	2	
54	550000759	V3350478522	TK431432SHROUD T2396	NO	4	
55	550000760	V3350478511	TK431432SHROUD T2395	NO	2	
56	550000761	V3350476780	TK431432 EMG ROTOR FOR SYN GAS TURBINE	NO	1	
57	550000762	V3350476771	TK431432WKROTOR FOR TURBINE	NO	2	
58	550000763	V3350476520	TK431432 SDEVICEROLLER PROT T3964	NO	1	
59	550000764	V3350475245	TK431432 EXTRN VALVERING THREADED	NO	1	
60	550000765	V3350475234	TK431432 EXTRN VALVERING THRDED T3246	NO	1	
61	550000766	V3350475223	TK431432 EXTRN VALVESEALING RING	NO	3	
62	550000768	V3350475183	TK431432 ESVRING JOINT GASKET	NO	4	
63	550000769	V3350475165	TK431432 ESVRING SEALING T2970	NO	1	
64	550000770	V3350475154	TK431432 ESVRING SEALING T2769	NO	1	
65	550000775	V3350467923	TK431432 EXTRN VALVEPIN TAPER SOLID	NO	1	
66	550001227	V3350433610	TK431432 EMG 32253GLAND FIN T3836	NO	2	
67	550001229	V3350433594	TK431432 EMG 32253GLAND FIN T3836	NO	3	
68	550001230	V3350433585	TK431432 EMG 32253GLAND FINT2108	NO	3	
69	550001235	V3350433503	TK431432 EMG 32253GLAND FINT2108	NO	3	
70	550001236	V3350433472	TK431432 EMG 32253GLAND FINT2104	NO	1	
71	550001238	V3350433234	TK431432TDEVICEGUIDING FOIL T2355	NO	1	
72	550001239	V3350433223	TK431432TDEVICEGUIDING FOIL T2354	NO	1	
73	550001240	V3350430220	GOVERNOR WOODWARD FOR EMG	NO	1	
74	550001241	V3350429072	REDUNDANT ITEMS GASKET K3619	NO	1	
75	550001242	V3350429063	REDUNDANT ITEMS GASKET BBONNET P3956	NO	2	
76	550001243	V3350429054	REDUNDANT ITEMS GASKET BBONNET P3951	NO	1	
77	550001244	V3350429045	REDUNDANT ITEMS GASKET T2003	NO	3	
78	550001245	V3350429034	TK431432 EXTRACTION VALVEGASKET	NO	4	
79	550001337	V3350416415	TK431432 EXTRACTION VALVEDISC	NO	1	

80	550001338	V3350415083	TK431432 EMG 32253DIAPHRAGM T2043	NO	1
81	550001339	V3350415072	TK431432 EMG 32253DIAPHRAGM T2042	NO	1
82	550001340	V3350415061	TK431432 EMG 32253DIAPHRAGM T2041	NO	1
83	550001408	V3350408773	TK431432CONTOL VALVEDENA BUSH	NO	2
84	550001409	V3350408764	TK431432CONTOL VALVEBUSH	NO	2
85	550001410	V3350408755	TK431432CONTOL VALVEDENA BUSH	NO	2
86	550001411	V3350408744	TK431432 EXTRACTION VALVEBUSH T3245	NO	1
87	550001425	V3350408522	TK431432 ESVBUSHT2766	NO	1
88	550001426	V3350408513	TK431432 ESVBUSHT2764	NO	2
89	550001427	V3350408504	TK431432 ESVBUSHT2763	NO	1
90	550001428	V3350408493	TK431432 ESVBUSHT2762	NO	1
91	550001429	V3350407112	TK431432TRIPPING DEVICEBOLT T2351	NO	1
92	550001431	V3350406613	TK431432BLADE GUIDE T2671	NO	55
93	550001501	V3350406604	TK431432BLADE GUIDE T2601	NO	58
94	550001502	V3350406551	TK431432BLADE GUIDE T2426	NO	107
95	550001503	V3350406542	TK431432BLADE GUIDE T2412	NO	106
96	550001504	V3350406533	TK431432BLADE GUIDE T2412	NO	90
97	550001505	V3350406524	TK431432BLADE GUIDE T2405	NO	101
98	550001506	V3350406515	TK431432BLADE GUIDE T2398	NO	101
99	550001507	V3350406504	TK431432BLADE GUIDE	NO	99
100	550001508	V3350406444	TK431432HEAVY DUTY JRNL BRG	NO	1
101	550001509	V3350406435	TK431432CONTOL VALVE DENA JRNL BRG	NO	4
102	550001510	V3350406424	TK431432CONTOL VALVEDENA JRNL BRG	NO	2
103	550001511	V3350406413	TK431432HEAVY DUTY JOURNAL BEARING	NO	1
104	550001512	V3350406402	TK431432DENA JOURNAL BEARING	NO	6
105	550001515	V3350406344	TK431432 SDEVICEBRG BUSH NEEDLE T3063	NO	6
106	550001516	V3350406333	TK431432SDEVICEBRG ROLLER PROJ	NO	1
107	550001517	V3350406322	TK431432SDEVICEBRG BALL AXIAL T2873	NO	1
108	550001518	V3350406311	TK431432 STARTNG DEVICEBRG BALL T2853	NO	1
109	550001519	V3350406293	TK431432 SDEVICEBRG BALL FUR	NO	1
110	550001520	V3350406284	TK431432STARTNG DEVICEBRG BALL AXIAL	NO	1
111	550001525	V3350406184	THRUST BEARING PADS RIGHTFOR EMG	ST	1
112	550001589	V3350406173	THRUST BEARING PADS LEFTFOR EMG	ST	1
113	550001590	V3350403214	TK431432POWER CYLINDER ASSEMBLY10	NO	1
114	550001591	V3350403205	TK431432HYDRAULIC CYLINDER LP6	NO	1
115	550002252	V3350467914	TK431432 EXTRN VALVEPIN HINGE T 3241	NO	1
116	550002255	V3350467825	TK431432PIN T2243	NO	15
117	550002257	V3350466184	TK431432GRAPHOIL CARBON RING	NO	40
118	550002258	V3350466153	REDUNDANT ITEMS PACKING	NO	1
119	550002260	V3350466102	REDUNDANT ITEMS PACKING	NO	1
120	550002262	V3350460793	TK431432 EXTRACTION VALVENUT	NO	1
121	550002263	V3350460782	TK431432 EXTRACTION VALVENUT CASTLE	NO	1
122	550002264	V3350460760	TK431432 ESVNUTT2765	NO	1
123	550002265	V3350450202	TK431432 SDEVICESEAL CASTING T3953	NO	1
124	550002266	V3350446024	TK431432 EXTRN VALVEKEY PARALLEL	NO	1

			PADS		
2	300031253	V3330106270	K431/432-COMplete THRST BRG ASS	ST	1
3	300031254	V3330150081	K431/432-BCL407A-LAB SEAL IN 2 HALVES	ST	2
4	300031255	V3330150092	K431/432-BCL407A-LAB SEAL IN 2 HALVES	ST	7
5	300031256	V3330150105	K431/432-BCL407A-LAB SEAL IN 2 HALVES	ST	6
6	300031257	V3330150114	K431/432-BCL407A-LAB SEAL-BAL DRUM	ST	1
7	300031258	V3330150123	K431/432-BCL407A-LAB SEAL	ST	1
8	300031259	V3330150132	K431/432-BCL407A-LAB SEAL	ST	1
9	300031260	V3330150141	K431/432-BCL407A-LAB SEAL	ST	1
10	300031261	V3330150221	K431/432-BCL306B-LAB SEAL IN TWO HALVES	ST	1
11	300031262	V3330150230	K431/432-BCL306B-LAB SEAL IN 2 HALVES	ST	2
12	300031263	V3330150241	K431/432-CL306B-LAB SEAL IN 2 HALVES	ST	8
13	300031264	V3330150252	K431/432-BCL306B-LAB SEAL	ST	1
14	300031265	V3330150263	K431/432-BCL306B-LAB SEAL	ST	1
15	300031266	V3330150274	K431/432-LAB SEAL-END GAS SEAL SUCTION	ST	1
16	300031267	V3330150285	K431/432-BCL306B-END GAS SEAL DISCH END	ST	1
17	300031268	V3330150294	K431/432-BCL306B-LAB SEAL-B.DRUM	ST	1
18	300031269	V3330150301	K431/432-2BCL306B-LAB SEAL IN 2 HALVES	ST	1
19	300031270	V3330175222	K431/432-BCL407/BCL-407A-O RING GSKT	NO	6
20	300031271	V3330175231	K431/432-BCL407-O RING END CVR	NO	3
21	300031272	V3330175240	K431/432-BCL407-O RING-BARREL	NO	5
22	300031273	V3330175295	K431/432-BCL407A-`O` RING GSKT END CVR	NO	6
23	300031274	V3330175331	K431/432-BCL407/BCL-407A-O RING GSKT	NO	6
24	300031275	V3330175342	K431/432-BCL407/BCL407A-O RING	NO	5
25	300031276	V3330175375	K431/432-BCL306A-2BCL306B-GSKT TEFLON	NO	7
26	300031277	V3330175393	K431/432-BCL306A-2BCL306B-GSKT. TEFLON	NO	7
27	300031278	V3330175464	K431/432-BCL306A-2BCL306B-O RING GSKT	NO	6
28	300031279	V3330175482	K431/432-BCL306A-/2BCL306B-O RING GSKT	NO	5
29	300031280	V3330175491	K431/432-BCL306A-2BCL306B-GSKT. TEFLON	NO	4
30	300031281	V3330175502	K431/432-BCL306B-O` RING GASKET	NO	6
31	300031282	V3330175544	K431/432-BCL306A-2BCL306B-O RING GSKT	NO	5
32	300031283	V3330175553	K431/432-BCL306A-2BCL306B-O RING GSKT	NO	5
33	300031284	V3330178992	K431/432-BCL407-L.P.SEAL RING	NO	4
34	300031285	V3330179004	K431/432-BCL407-SEAL RING HP	NO	2
35	300031286	V3330179013	K431/432-BCL407A-LP SEAL RING	NO	7
36	300031287	V3330179022	K431/432-BCL407A-LP SEAL RING	NO	1

37	300031288	V3330179031	K431/432-BCL407A-HP SEAL RING	NO	3	
38	300031290	V3330179051	K431/432-BCL306A-2BCL306B-LP INTER	NO	5	
39	300031291	V3330179062	K431/432-BCL306A-SEAL RING HP OIL	NO	5	
40	300031292	V3330179073	K431/432-BCL306B-HP.SEAL RING	NO	5	
41	300031293	V3330179084	K431/432-BCL407A-SEAL RING OIL	NO	1	
42	300031294	V3330179131	K431/432-BCL407-COMPRESSION SPRING	NO	20	
43	300031295	V3330179302	K431/432-BCL407A-COMPRESSION SPRING	NO	4	
44	300031296	V3330179313	K431/432-BCL407A-OIL SCRAPER RING	NO	4	
45	300031297	V3330179324	K431/432-BCL306B-COMPRESSION SPRING	NO	4	
46	300031298	V3330179335	K431/432-OIL SCRAPER RING	NO	4	
47	310006576	V3330106510	K431/432-ACCUMULATOR-BLADDERS	NO	2	
48	310006577	V3330106521	K431/432-K421-ACCUMULATOR-BLADDERS	NO	3	
49	310006578	V3330147622	K431/432-ACCUMULATOR-SEAL KITS	ST	2	
50	310006579	V3330147633	K431/432-K421-ACCUMULATOR-SEAL KIT	ST	3	
51	310006580	V3330175124	K431/432-ACCUM.ANTI-EXTRUSION RING	ST	2	
52	310006581	V3330175133	K431/432-K421-ACUM-ANTI-EXTRUSION RING	ST	3	
53	550001352	V3330179111	K431432BCL306A2BCL306BSEAL RING LP	NO	3	
54	550001353	V3330179102	K431432 BCL407SEAL RING OIL	NO	1	
55	550001354	V3330179095	K431432BCL306ASEAL RING OIL	NO	1	
56	550001355	V3330178934	BOLT ALN HT STEEL M5X15 MM	NO	3	
57	550001356	V3330178925	BOLT ALN HT STEEL M4X15 MM	NO	6	
58	550001357	V3330176801	K431432 BCL306BROTOR SPARE	ST	1	
59	550001358	V3330176794	K431432 BCL306AROTOR SPARE	ST	1	
60	550001359	V3330176785	K431432 BCL407AROTOR SPARE	ST	1	
61	550001360	V3330176774	K431432 BCL407ROTOR SPARE	ST	1	
62	550001361	V3330175615	K431432 BCL306BORING GASKET K0070	NO	4	
63	550001362	V3330175604	K431432BCL306A2BCL306BO RING GSKT	NO	4	
64	550001363	V3330175591	K431432CL306BO RING	NO	9	
65	550001364	V3330175580	K431432CL306BO RING	NO	10	
66	550001432	V3330175571	K431432BCL306BO RING GSKT CHORD	NO	1	
67	550001433	V3330175562	K431432CL306BGSKT CHORD TEFLON	NO	40	
68	550001434	V3330175535	K431432BCL306BGSKTTEFLON	NO	6	
69	550001435	V3330175524	K431432BCL306BO RING	NO	5	
70	550001436	V3330175513	K431432BCL306A2BCL306BGSKT TEFLON	NO	6	
71	550001437	V3330175473	K431432BCL306A2BCL306BGSKT TEFLON	NO	6	
72	550001438	V3330175455	K431432BCL306AO RING GSKT	NO	4	
73	550001439	V3330175444	K431432BCL306A2BCL 306BO RING GSKT	NO	4	
74	550001440	V3330175433	K431432BCL306A2BCL306BO RING GSKT	NO	8	
75	550001441	V3330175422	K431432BCL306A2BCL306BGSKTTEFLON	NO	6	
76	550001442	V3330175411	K431432BCL306AO RING GSKT	NO	6	
77	550001443	V3330175384	K431432BCL306A2BCL306BO RING GSKT	NO	6	
78	550001444	V3330175364	K431432BCL306A2BCL306BO RING GSKT	NO	6	
79	550001445	V3330175320	K431432BCL407AGSKT TEFLON	NO	4	
80	550001446	V3330175311	K431432BCL407BCL407AO RING END CVR	NO	1	
81	550001447	V3330175302	K431432BCL407AGSKT TEFLON	NO	3	
82	550001448	V3330175284	K431432BCL407O RING GSKT	NO	4	
83	550001449	V3330175273	K431432BCL407BCL407AO RING	NO	12	
84	550001450	V3330175262	K431432 BCL407O RING	NO	8	

85	550001452	V3330175213	K431432BCL407BCL407AO RING END CVR	NO	10	
86	550001453	V3330150212	K431432LAB SEAL END GAS SEAL DISSIDE	ST	2	
87	550001454	V3330150203	K431432LAB SEAL END GAS SUCTION	ST	2	
88	550001455	V3330150194	K431432LAB SEAL TOP RING OF SEND	ST	1	
89	550001456	V3330150183	K431432BCL306ALAB SEAL FOR BDRUM	ST	1	
90	550001526	V3330150172	K431432BCL306ALAB SEAL IN TWO HALVES	ST	6	
91	550001527	V3330150161	K431432BCL306ALAB SEAL IN TWO HALVES	ST	1	
92	550001528	V3330150150	K431432BCL306ALABSEAL IN 2 HALVES	ST	5	
93	550001529	V3330150070	K431432BCL407LAB SEAL IN 2 HALVES	ST	1	
94	550001530	V3330150052	K431432BCL407 END GAS SEAL	ST	2	
95	550001531	V3330150043	K431432BCL407LAB SEAL FOR BAL DRUM	ST	2	
96	550001532	V3330150034	K431432BCL407LAB SEAL	ST	5	
97	550001533	V3330150025	K431432BCL407LAB SEAL	ST	11	
98	550001534	V3330150014	K431432BCL407LAB SEAL	ST	1	
99	550001537	V3330113291	K431432CPLNG BET BCL407BCL 407A	ST	1	
100	550001541	V3330106234	K431432DISCHARGE SIDE TILTING PADS	ST	1	
101	550001542	V3330106225	K431432SUCTION SIDE TILTING PADS	ST	1	
102	550001543	V3330106203	K431432SUCTION SIDE TILTING PADS	ST	1	
103	550001544	V3330106190	K4314322 BCL306BTHRST BRG SHOES	ST	1	
104	560000051	V3330113304	K-431/432-CPLNG BET WK TURBINE- BCL407	ST	1	
SPARES FOR AUXILIARIES						ANNEX-VII
SPARES FOR LUBE OIL PUMP						
	Material	Old material no.	Material description	BUn	Total stock	
1	300031753	V3340308491	P432-BUSH BALANCE PART NO 8	NO	2	
2	310006680	V3340300004	P432-LUBE OIL PUMP	NO	1	
3	310006681	V3340308504	P432-BUSH SEAT R-VALVE	NO	1	
4	310006682	V3340378922	P432-SCREW MAIN PART NO 12	NO	1	
5	310006684	V3340378995	P-432-SEAL MECH. TYPE FLEX BOX PT 83	NO	1	
6	310006685	V3340394011	P432-WASHER I-25 K2003	NO	2	
SPARES FOR .LP. SEAL OIL PUMP						
	Material	Old material no.	Material description	BUn	Total stock	
1	300031763	V3340500002	P434-COMPLETE PUMP	NO	1	
2	300031764	V3340508493	P434-BUSHES BALANCING PART NO 8	NO	4	
3	300031766	V3340512982	P434-CONE R-VALVE K2020	NO	1	
4	300031769	V3340566184	P434-PAD RUBBER	NO	30	
5	300031770	V3340575212	P434-O RING PART NO 23	NO	1	
6	300031772	V3340575234	P434-O RING JOINT PART NO 78	NO	1	
7	310006694	V3340578920	P434-MAIN SCREW	NO	1	
8	310006696	V3340578993	P434-SEAL MECHANICAL	NO	1	
SPRES FOR H.P. SEAL OIL PUMP						
	Material	Old material no.	Material description	BUn	Total stock	
1	300031775	V3340633224	P435-VALVE GUIDE	NO	6	
2	300031777	V3340663211	P435-BALL POS NO 100	NO	6	
3	300031781	V3340668261	P435-SPARES-HP SEAL OIL PUMP	NO	4	

4	300031783	V3340668292	P435-PISTON SHOE	NO	12
5	300031784	V3340675280	OILSEAL-W/O MET.INSERT 70X90X10-NEOPRENE	NO	5
6	300031785	V3340675291	P435-O RING 170*180*5 VITON	NO	12
7	300031786	V3340675304	P435-O RING VITON	NO	11
8	300031788	V3340680121	P435-SHAFT WITH KEY	NO	2
9	310006703	V3340600001	P435-COMPLETE HP SEAL OIL PUMP	NO	2
10	310006704	V3340608494	P435-BALANCING BUSH.	NO	2
11	310006705	V3340613300	P435-COVER PART NO 104	NO	2
12	310006706	V3340613311	P435-SPARES-PISTON TYPE PUMP	NO	1
13	310006707	V3340613720	P435-CYLINDER HEAD	NO	6
14	310006708	V3340668270	P435-PISTON UNIT	NO	6
15	310006711	V3340675213	P435-O RING	NO	15
16	310006712	V3340675224	P435-VITON "O" RING	NO	6
17	310006713	V3340675235	P435-VITON RUBBER 'O' RING #435	NO	12
18	310006714	V3340675244	P435-O RING	NO	4
19	310006715	V3340675253	P435-O RING	NO	5
20	310006716	V3340675262	P435-O RING VITON	NO	24
21	310006717	V3340675271	P435-O RING SUPT RING 113/192	NO	9
22	310006718	V3340675315	P435-SUPPORTING RING	NO	12
23	310006719	V3340675324	P435-O RING #72	NO	12
24	310006720	V3340675333	P435-TEFLON FLAT RING	NO	12
25	310006723	V3340679320	P435-VALVE SEAT POS NO48A850018	NO	6
26	310006725	V3340682870	P435-PISTON SPRING	NO	35
27	310006727	V3340682892	P435-VALVE SPRING POS 57	NO	8
28	310006729	V3340682923	P-435-A/B/N-SPRING	NO	2
29	310006730	V3340684292	P435-SUPPORT POS NO76	NO	1
SPARES FOR EMERGENCY LUBE OIL PUMP					
	Material	Old material no.	Material description	BUn	Total stock
1	300031760	V3340438625	P433-IMPELLER BRONZE	NO	1
2	310006689	V3340438634	P433-IMPELLER MAT-EN8	NO	1
3	310006690	V3340480123	P433-SHAFT	NO	1
4	310006691	V3340480132	P433-SHAFT SLEEVE	NO	1
SPARES FOR LUBE OIL COOLER					
	Material	Old material no.	Material description	BUn	Total stock
1	300032829	V3373929015	E437-A/B-GASKET K3624	NO	1
2	300032831	V3373966101	E437-GASKET RUBBER 551X 536X6.0 SQ.C.S	NO	2
SPARES FOR EXCHANGERS					
	Material	Old material no.	Material description	BUn	Total stock
1	300032801	V3373329011	E432-GASKET,862X836X3	NO	6
2	300032802	V3373329020	E432-GASKET,847X873X3THK WITH C.STRIP	NO	3
3	300032803	V3373329031	E443-GASKET CAF 3"	NO	3
4	300032804	V3373329042	E433-GASKET,827X853X3THICK	NO	1
5	300032805	V3373329053	E434-GASKET 776X 750X 3 THK.	NO	6
6	300032806	V3373329064	E433-GASKET,826X 800X 3 MM THK.	NO	6
7	300032810	V3373329100	E432-GASKET SOFT IRON,875X847X3X10	NO	4

8	300032811	V3373329111	E433-GASKET,858X 824X 3X10 CENTSTRIP	NO	2	
9	300032815	V3373366132	E434-GASKET AL 832X 784X1THK.	NO	1	
10	300032819	V3373366172	E434-DOUBLE CONICAL GASKET	NO	1	
11	300032822	V3373387542	DISPSURPLUS TUBES-U K3608	NO	0	
12	300032824	V3373387564	DISPSURPLUS TUBES-U K3618	NO	0	
	SPARES FOR INSTRUMENTS				ANNEX-VIII	
	Material		Description	BUn	Total stock	
1	583753024		SRV SYN COMP PSV 5.1		1	
2	5840100102		DIAPH LIC-3.54 SYN		6	
3	5840100131		DIAPH HIC-1.4 SYN		2	
4	5840100164		O RING LIC-3.50 SYN		13	
5	5840100200		O RING LIC-3.54 SYN		5	
6	5840100222		GASKET LIC-3.54 SYN		4	
7	5840100513		DIAPH SD 3.50 SYN		1	
8	5840100915		DIAPH PC 3.1 SYN		1	
9	5840104102		O RING FIC 1.1 SYN		4	
10	5840104113		O RING FIC 1.1 SYN		2	
11	5840104135		O RING FIC 1.1 SYN		2	
12	5840104153		O RING FIC 1.1 SYN		1	
13	5840104180		O RING FIC 1.1 SYN		1	
14	5840104191		O RING FIC 1.1 SYN		2	
15	5840114115		STEM LIC-3.50 SYN		2	
16	5840114204		PLUG SD 5.2 SYN		2	
17	5840114222		SEAT SD 5.2 SYN		1	
18	5840114704		PLUG SD 5.1 SYN		2	
19	5840114713		STEM SD 5.1 SYN		3	
20	5840114722		SEAT SD 5.1 SYN		1	
21	5840115052		VALVE LIC 4.31V2 SYN		1	
22	5840115801		PLUG PIC 1.2V		1	
23	5840115832		GASKET HIC-1.5V		1	
24	5840115854		PLUG HIC-1.5V		1	
25	5840115868		STEMPLUG HIC-1.5V		1	
26	5840117621		PLUG LIC3.50V SYN		1	
27	5840117641		SEATRING LIC3.50V SYN		2	
28	5840119701		WIPERUPPER LIC3.50 SYN		2	
29	5840119723		WIPERUPPERHIC1.4 SYN		2	
30	5840119754		GASKET LIC-3.50 SYN		3	
31	5840119932		PIN GROOVE HIC1.5 SYN		2	
32	5840119983		PIN GROOVE LIC3.50SYN		1	
33	5840132300		PLUG HIC-1.4VSYN		1	
34	5840132311		SEAT RING HIC-1.4VSYN		1	
35	5840132322		Gasket HIC-1.4VSYN		1	
36	5840132344		CAGE HIC-1.4VSYN		1	
37	5840132702		VALVE SD 3.50 SYN		1	
38	5840132711		STEM VALVE SD 3.50 SYN		1	
39	5840132720		SEAT RING VALVE SD 3.50 SYN		1	
40	5840132731		PACKING VALVE SD 3.50 SYN		1	
41	5840132742		GASKET VALVE SD 3.50 SYN		1	

42	5840132753		WIPER VALVE SD 3.50 SYN		1
43	5840132764		PIN GROOVE VALVE SD 3.50 SYN		1
44	5840160542		STEM PC 1.2 SYN		1
45	5840160553		SEAT RING PC1.2		1
46	5840160564		SEAT RING PC1.3		2
47	5840160575		GASKET VALVE PC1.2 SYN		2
48	5840160584		BUSHING VALVE PC1.2 SYN		3
49	5860700104		DIAPHRAGM LC1.4 V SYN		2
50	5860700113		SPRING LC1.4 V SYN		3
51	5860700122		DIAPHRAGM LC1.4 V SYN		1
52	5860700131		DIAPHRAGMHIC 1.4 V SYN		1
53	5860700140		O RING HIC1.1 V SYN		1
54	5860700202		DIAPHRAGM PC6.2 V SYN		3
55	5860700211		SPRING PC 6.2 V SYN		1
56	5860714102		Plug 40003291		1
57	5860714113		Seat ring 8461		1
58	5860714171		Cage rough cast 8451		1
59	5860714124		Seat ring 8461		1
60	5860714313		SEAT HIC-1.1		1
61	5860714322		STEM HIC-1.1 SYN		1
62	5860714340		PIN HIC-1.1 SYN		1
63	5860714331		PACKING HIC-1.1 SYN		1
64	5860714351		GASKET HIC-1.1 SYN		4
65	5860714362		SEAT HIC-1.1 SYN		1
66	5860732104		PLUG LC1.3		1
67	5860732124		PIN PLUG STEM		3
68	5860732142		PACKING LC1.4		12
69	5860732151		GASKET LC		9
70	5860760102		Plug 6.2		2
71	5860760111		STEM 6.2		1
72	5860760120		SEAT6.2		2
73	5860760131		STEM PLUG6.2		3
74	5860760142		GASKET 6.2		3
75	5866414112		PLUG DPIC3.50V SYNGAS		1
76	5866414134		SEAT UPPERDPIC3.50V SYNGAS		2
77	5866414145		STEM DPIC3.50V SYNGAS		3
78	5866414154		BUSHING DPIC3.50V SYNGAS		4
79	5866414172		LOCK PIN DPIC3.50V SYNGAS		1
80	5866414181		DIAPHRAGM DPIC3.50V SYNGAS		2
81	5866414261		PLUG DPIC3.51V SYNGAS		3
82	5866414270		SEAT DPIC3.51V SYNGAS		3
83	5866414281		BUSHING DPIC3.51V SYNGAS		4
84	5866414323		GASKET PISTON DPIC3.51V SYNGAS		3
85	5866414332		O RING PISTON DPIC3.50V SYNGAS		3
86	5866414341		O RING PISTON DPIC3.51V SYNGAS		2
87	5866414361		SPRING		1
88	5882904004		COMPLETE ACTUATOR FOR HC1.1		1
89	5882904102		LIP SEAL SOD PNEM		7
90	5882904153		KIT FOR ACTUATOR		2
91	5882904302		LIP SEAL SOD PNEM		4
92	5882921132		BALL		1

