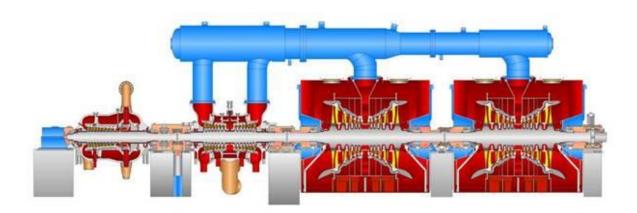
KUDGI SUPER THERMAL POWER PROJECT STAGE-I (3x800MW)



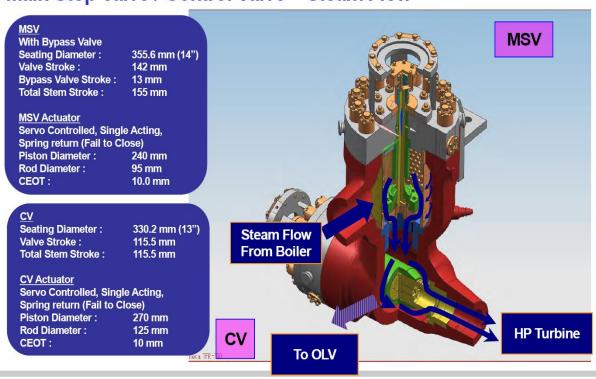
TYPICAL CONFIGURATION OF TG UNIT OF KUDGI-I (3X800MW)

SL. NO.	ATTRIBUTES	UNIT	VALUE
CYCLE PA	RAMETERS:	1	
1.	MAIN STEAM PRESSURE	Kg/cm2(a)	247
2.	MAIN STEAM TEMPERATURE	Deg.C	565
3.	REHEAT STEAM TEMPERATURE	Deg.C	593
4.	NO. OF REHEATS		01
5.	DESIGN BACK PRESSURE	mmHg (a)	LP-68,HP-86,Avg.77
6.	FINAL FEED WATER TEMPERATURE	Deg.C	290
7.	GURANTEED HEAT RATE AT TMCR	Kcal/KWH	1819.3
8.	GURANTEED HEAT RATE AT TMCR 105% OF TMCR	Kcal/KWH	1818.8
9.	GURANTEED VACUUM	mmHg (a)	67
10.	COLD START UP PARAMETERS	ata/Deg.C/	92/380/380
	(MS Pr. /MS Temp. /HRH Temp.)	Deg.C	
11.	TOTAL COLD START UP TIME	min	591
MAIN TU	RBINE		
1.	MAKE		TOSHIBA CORPORATION, JAPAN
2.	COMBINED HP-IP		NO
3.	DOUBLE LP TURBINE		YES
4.	NO. OF TURBINE CYLINDERS		4
5.	NO. OF CASING IN HPT		02
6.	NO. OF CASING IN HP-IP		NA
7.	NO. OF CASING IN IPT		02
8.	NO. OF CASING IN LPT		02
9.	TYPE OF TURBINE INSULATION		CERAMIC FIBRE AND MINERAL
٥.	THE OF TORBINE INSOLATION		WOOL PADS/BLANKET
10.	ACOUSTIC ENCLOSURE PROVIDED OR NOT		YES
11.	LPT EXHAUST DOWNWARD /AXIAL		DOWNWARD
12.	NO. OF EXTRACTION		8
13.	TYPE OF HPT (SINGLE/DOUBLE FLOW)		SINGLE
14.	TYPE OF IPT (SINGLE/DOUBLE FLOW)		DOUBLE
15.	TYPE OF LPT (SINGLE/DOUBLE FLOW)		DOUBLE
16.	COMPOUNDING (TANDEM/CROSS)		TANDEM
17.	CASING DIAMETER (HP/HIP/IP/LP) (MAX.)	mm	2680/-/3620/3169
18.		mm	
	BEARING SPAN (HP/HIP/IP/LP)	mm	4900/-/5840/5260/5260
19.	ROTOR DESIGN (WELDED/ONE PIECE		HP- ONE PIECE FORGED
	FORGED)		IP- TWO FORGED PIECES WELDED
			TOGETHER
20	TVDE OF CLAND SEALS		LP- ONE PIECE FORGED
20.	TYPE OF GLAND SEALS		SPRING BACKED LABYRINTH TYPE
21.	HPT MODULE NO.		- NA
22.	HIP MODULE NO.		NA .
23.	IPT MODULE NO.	+	- TC452C
24.	LPT MODULE NO.		TC4F36
25.	NO. AND TYPE OF TURBINE BEARING		01 NO. TILTING PAD TYPE JOURNAL CUM THRUST BEARING 03 NOS TILTING PAD TYPE JOURNAL BEARING 06 NOS FIXED TYPE ELLIPTICAL JOURNAL BEARING
26.	NO. OF HP TURBINE BLADES		18 (ALL REACTION TYPE)
27.	NO. OF HIP TURBINE BLADES		NA
28.	NO. OF IP TURBINE BLADES		13x2 (1 IMPULSE AND 12 REACTION TYPE)
29.	NO. OF LP TURBINE BLADES		6x2x2 (1 IMPULSE AND 5 REACTION TYPE)

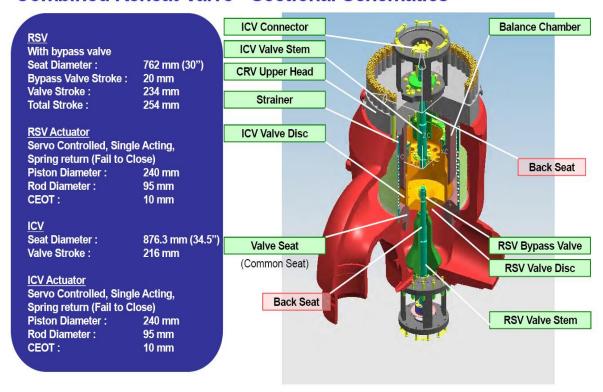
30.	LPT LAST STAGE BLADE TYPE	T	SHROUDED (WITH SNUBBER)
			LAST STAGE LAST BUT ONE STAGE
31.	LPT LAST TWO STAGE BLADE DETAILS:		914.4 598
	a) BLADE HEIGHT	mm	1676.4 1778
	b) ROOT DIAMETER	mm	2590.8 2376
	c) PITCH DIAMTER	mm	3505.2 2974
	d) TIP DIAMETER	mm	
32.	RADIAL CLEARANCE OF EACH BEARING	mm	BRG.DIA.x1.3/1000
33.	TYPE OF BARRING GEAR		MOTORISED
	(HYDRAULIC/MOTORISED)		
34.	BARRING SPEED	rpm	4
35.	CRITICAL SPEED	rpm	HPT-2250
			IPT-1890
			LPTA-1720
			LPTB-1750
			GEN-900
36.	STEAM ADMISSION FULL OR PARTIAL ARC		FULL ARC
	TYPE		
37.	NO. OF MSV AND TYPE		02 & POPET TYPE
38.	NO. OF MCV AND TYPE		02 & VENTURI TYPE
39.	NO. OF OLV AND TYPE		01 & POPET
40.	NO. OF IPSV AND TYPE		02 & POPET TYPE
41.	NO. OF ICV AND TYPE		02 & VENTURI TYPE
42.	HP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
	HORIZONTALLY SPLIT)		
43.	HIP CASING TYPE (BARREL TYPE OR		NA
٦٥.	HORIZONTALLY SPLIT)		
44.	IP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
44.	HORIZONTALLY SPLIT)		HOMZONTALLT STEIT
45.	LP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
45.	HORIZONTALLY SPLIT)		HORIZONTALLT SPLIT
46.	LP TURBINE BURSTING DIAPHRAGM		
40.	a) Number		02 per CASING
	b) Diameter	mm	1157
	c) Material	'''''	COPPER
	,	t/h	470
	d) Reliving Capacity	•	
47	e) Bursting Set Pressure	Kg/cm2(a)	1.38
47.	WHETHER LPT LAST STAGE BLADE VIBRATION		NO
TUBBINE	MONITORING SYSTEM PROVIDED.		
	LUBE OIL SYSTEM		MOTOR DRIVEN
1.	MAIN OIL PUMP (MOTOR/SHAFT DRIVEN)	1	MOTOR DRIVEN
2.	NO. OF MOP & CAPACITY		2x100% & 5100 l/min
3.	MOP DIS. PR. AND SPEED		7.7 Kg/cm2 (g) & 3000rpm
4.	NO. OF AOP		NA
5.	NO. OF EOP & CAPACITY		1x100% & 4164 l/min
6.	EOP DIS. PR. AND SPEED		2.75 Kg/cm2 (g) & 1750rpm
7.	LUBE OIL PRESSURE (AT TURBINE C/L)	Kg/cm2(a)	1.8
8.	NO. OF JOP(AC/DC)		1x100% AC & 1x100% DC
9.	JOP (BOTH DC &AC) CAPACITY, DIS. PR. AND		34.2 l/min, 246Kg/cm2 (g),
	SPEED		1500rpm (AC) & 1750rpm (DC)
10.	TYPE OF LUBE OIL		ISO VG 32
11.	TYPE OF COOLER		PHE TYPE
12.	LUBE OIL TANK CAPACITY	Lit	40000/58000
12.	(NORMAL/MAXIMUM)		
13.	NORMAL TANK LEVEL	mm	920 from Top of Tank
		†	•
14.	TANK LEVEL HI/LO	mm	820/1020 From Top of Tank

15.	TYPE OF PURIFIER PROVIDED		COALESCER TYPE
16.	NORMAL LUBE OIL TEMPERATURE	Deg.C	43-49
GOVERN	ING SYSTEM & CONTROL OIL SYSTEM		
1.	TYPE OF GOVERNING		D-EHC TYPE THROTTLE
			GOVERNING (HP GOV.)
2.	GOVERNING OIL PRESSURE	Kg/cm2(g)	167
3.	MAKE		TOSHIBA CORPORATION, JAPAN
4.	DEAD BAND OF THE GOVERNOR		0%
5.	RANGE OF REGULATION		5% (ADJUSTABLE BETWEEN 3% -
			8%)
6.	TYPE OF GOVERNING OIL		QUINTOLUBRIC 888-46
7.	CONTROL OIL TANK CAPACITY	lit	1000/2000
	(NORMA/MAXIMUM)		
8.	DIFFERENT TANK LEVELS (NORMAL/HI/LO)	mm	500/600/400/ from Tank Bottom
9.	NO. OF OIL PUMP AND TYPE		2x100% AXIAL PISTON TYPE
10.	PUMP CAPACITY, DIS. PR. & SPEED		160 l/min,169 Kg/cm2(g) &
			970rpm
11.	CONTROL OIL PURIFIER DETAILS		MAKE: PALL (HOUSING) & PARKER
			(ELEMENT)
			TYPE: COALESCER TYPE
12.	PURIFIER PUMP DETAILS		NO. – 2x100%
			TYPE –Gear Type
			CAPACITY – 45 l/min
			DIS. PR5.1 Kg/cm2 (g)

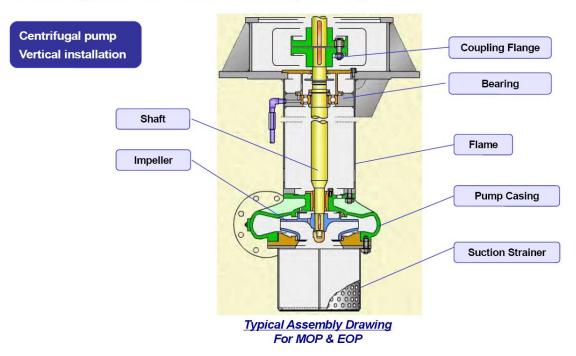
Main Stop Valve / Control Valve - Steam Flow



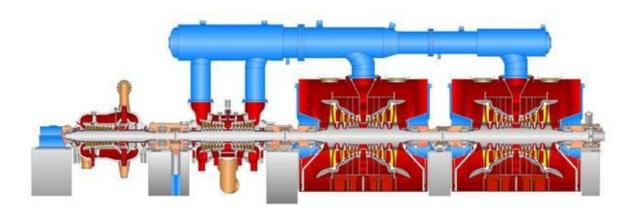
Combined Reheat Valve - Sectional Schematics



Lube Oil System - MOP & EOP Assembly Drawing



LARA SUPER THERMAL POWER PROJECT STAGE-I (2x800MW)

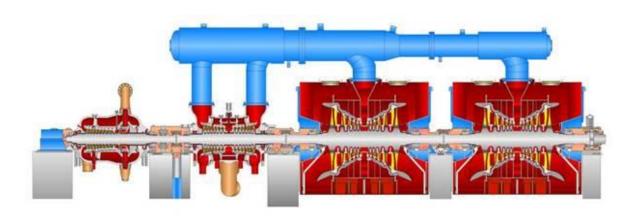


TYPICAL CONFIGURATION OF TG UNIT OF LARA-I (2X800MW)

SL. NO.	ATTRIBUTES	UNIT	VALUE
CYCLE PA	RAMETERS:		
1.	MAIN STEAM PRESSURE	Kg/cm2(a)	247
2.	MAIN STEAM TEMPERATURE	Deg.C	565
3.	REHEAT STEAM TEMPERATURE	Deg.C	593
4.	NO. OF REHEATS		01
5.	DESIGN BACK PRESSURE	mmHg (a)	77
6.	FINAL FEED WATER TEMPERATURE	Deg.C	284.6
7.	GURANTEED HEAT RATE AT TMCR	Kcal/KWH	1829
8.	GURANTEED HEAT RATE AT TMCR 105% OF TMCR	Kcal/KWH	1834
9.	GURANTEED VACUUM	mmHg (a)	66.8
10.	COLD START UP PARAMETERS	ata/Deg.C/	98.8/370/320
10.	(MS Pr. /MS Temp. /HRH Temp.)	Deg.C	96.6/3/0/320
11.	TOTAL COLD START UP TIME	min	600
MAIN TU		111111	000
		_	LUTACUL IADAN
1. 2.	MAKE COMBINED HP-IP		HITACHI, JAPAN
			NO
3.	DOUBLE LP TURBINE		YES
4.	NO. OF TURBINE CYLINDERS		4
5.	NO. OF CASING IN HPT		02
6.	NO. OF CASING IN HP-IP		NA
7.	NO. OF CASING IN IPT		02
8.	NO. OF CASING IN LPT		02
9.	TYPE OF TURBINE INSULATION		CERAMIC FIBRE ROCKWOOL
10.	ACOUSTIC ENCLOSURE PROVIDED OR NOT		YES
11.	LPT EXHAUST DOWNWARD /AXIAL		DOWNWARD
12.	NO. OF EXTRACTION		9
13.	TYPE OF HPT (SINGLE/DOUBLE FLOW)		SINGLE
14.	TYPE OF IPT (SINGLE/DOUBLE FLOW)		DOUBLE
15.	TYPE OF LPT (SINGLE/DOUBLE FLOW)		DOUBLE
16.	COMPOUNDING (TANDEM/CROSS)		TANDEM
17.	BEARING SPAN (HP/HIP/IP/LP)	mm	5750/-/6150/5500/5500
18.	ROTOR DESIGN (WELDED/ONE PIECE		HP- ONE PIECE FORGED
	FORGED)		IP- ONE PIECE FORGED
			LP- ONE PIECE FORGED
19.	TYPE OF GLAND SEALS		SPRING BACKED LABYRINTH TYPE
20.	HPT MODULE NO.		-
21.	HIP MODULE NO.		NA
22.	IPT MODULE NO.		-
23.	LPT MODULE NO.		TC4F33.5
24.	NO. AND TYPE OF TURBINE BEARING		01 THRUST BEARING 10 JOURNAL BEARING
25.	NO. OF HP TURBINE BLADES		11 (ALL IMPULSE TYPE)
26.	NO. OF HIP TURBINE BLADES		NA
27.	NO. OF IP TURBINE BLADES		8x2 (ALL IMPULSE TYPE)
28.	NO. OF LP TURBINE BLADES		7x2x2 ((ALL IMPULSE TYPE)
29.	LPT LAST STAGE BLADE TYPE		SHROUDED
30.	LPT LAST TWO STAGE BLADE DETAILS:		LAST STAGE LAST BUT ONE STAGE
	a) BLADE HEIGHT	mm	856 492.3
	b) ROOT DIAMETER	mm	1676.4 1676.4
	c) PITCH DIAMTER	mm	2532.4 2168.7
	,	mm	3388.4 2661
	d) TIP DIAMETER	1	
31.	RADIAL CLEARANCE OF EACH BEARING	mm	1# 0.52 5# 1.26

2.	GOVERNING OIL PRESSURE	Kg/cm2(g)	163
3.	MAKE		HITACHI, JAPAN
4.	DEAD BAND OF THE GOVERNOR		+/-0.06%
5.	RANGE OF REGULATION		4% (ADJUSTABLE BETWEEN 4% -
			6%)
6.	TYPE OF GOVERNING OIL		FYRQUEL(VG46)
7.	CONTROL OIL TANK CAPACITY	lit	1000/1700
	(NORMA/MAXIMUM)		
8.	NO. OF OIL PUMP AND TYPE		2x100% AXIAL PISTON TYPE
9.	PUMP CAPACITY, DIS. PR. & SPEED		100 l/min,163 Kg/cm2(g) &
			1500rpm
10.	PURIFIER PUMP DETAILS		NO. – 2x100%
			TYPE –Gear Type
			CAPACITY – 2.4 l/min
			DIS. PR5.0 atg.

GADARWARA SUPER THERMAL POWER PROJECT STAGE-I (2x800MW)



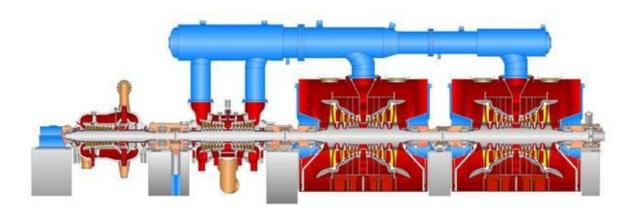
TYPICAL CONFIGURATION OF TG UNIT OF GADARWARA (2X800MW)

SL. NO.	ATTRIBUTES	UNIT	VALUE
CYCLE PA	ARAMETERS:		
1.	MAIN STEAM PRESSURE	Kg/cm2(a)	247
2.	MAIN STEAM TEMPERATURE	Deg.C	565
3.	REHEAT STEAM TEMPERATURE	Deg.C	593
4.	NO. OF REHEATS		01
5.	DESIGN BACK PRESSURE	mmHg (a)	LP-69,HP-85,Avg.77
6.	FINAL FEED WATER TEMPERATURE	Deg.C	290
7.	GURANTEED HEAT RATE AT TMCR	Kcal/KWH	1832
8.	GURANTEED HEAT RATE AT TMCR 105% OF	Kcal/KWH	1829.8
0.	TMCR	11001,11111	
9.	GURANTEED VACUUM	mmHg (a)	77
10.	COLD START UP PARAMETERS	ata/Deg.C/	97/390/390
-0.	(MS Pr. /MS Temp. /HRH Temp.)	Deg.C	3.7000,000
11.	TOTAL COLD START UP TIME	min	300
MAIN TU			300
1.	MAKE		SIEMENS GEDMANIV
2.	COMBINED HP-IP	1	SIEMENS, GERMANY NO
3.	DOUBLE LP TURBINE	1	YES
			4
4.	NO. OF TURBINE CYLINDERS		
5.	NO. OF CASING IN HPT	-	02
6.	NO. OF CASING IN HP-IP		NA
7.	NO. OF CASING IN IPT		02
8.	NO. OF CASING IN LPT		02
9.	TYPE OF TURBINE INSULATION		SPRAY AS WELL AS ROCK WOOL
			PADS/BLANKET
10.	ACOUSTIC ENCLOSURE PROVIDED OR NOT		YES
11.	LPT EXHAUST DOWNWARD /AXIAL		DOWNWARD
12.	NO. OF EXTRACTION		9
13.	TYPE OF HPT (SINGLE/DOUBLE FLOW)		SINGLE
14.	TYPE OF IPT (SINGLE/DOUBLE FLOW)		DOUBLE
15.	TYPE OF LPT (SINGLE/DOUBLE FLOW)		DOUBLE
16.	COMPOUNDING (TANDEM/CROSS)		TANDEM
17.	BEARING SPAN (HP/HIP/IP/LP)	mm	4865/-/6075/6925/6925
18.	ROTOR DESIGN (WELDED/ONE PIECE		HP- ONE PIECE FORGED
	FORGED)		IP- ONE PIECE FORGED
			LP- ONE PIECE FORGED
19.	TYPE OF GLAND SEALS		SPRING BACKED LABYRINTH TYPE
20.	HPT MODULE NO.		HP70-V4
21.	HIP MODULE NO.		NA
22.	IPT MODULE NO.		I60-V2
23.	LPT MODULE NO.		-
24.	NO. AND TYPE OF TURBINE BEARING		01 NO. TILTING PAD TYPE THRUST
			BEARING
			07 NOS JOURNAL BEARING
25.	NO. OF HP TURBINE BLADES		18 (ALL REACTION TYPE)
26.	NO. OF HIP TURBINE BLADES		NA
27.	NO. OF IP TURBINE BLADES		15x2 (ALL REACTION TYPE)
28.	NO. OF LP TURBINE BLADES		7x2x2 (ALL REACTION TYPE)
29.	LPT LAST STAGE BLADE TYPE		FREE STANDING
30.	LPT LAST TWO STAGE BLADE DETAILS:		LAST STAGE LAST BUT ONE STAGE
50.	a) BLADE HEIGHT	mm	1021.4 644.75
		mm	1630 1660
	b) ROOT DIAMETER c) PITCH DIAMTER	mm	2538.8 2244

31.	RADIAL CLEARANCE OF EACH BEARING	mm	1# 0.35, 2# 0.54, 3#0.68, 4#0.75, 5#0.75 (VERTICAL)
			1# 0.40, 2# 0.61, 3#0.46, 4#0.51,
			5#0.50 (HORIZONTAL)
32.	TYPE OF BARRING GEAR		HYDRAULIC
	(HYDRAULIC/MOTORISED)		
33.	BARRING SPEED	rpm	60
34.	CRITICAL SPEED	rpm	HPT-1602
			IPT-1962
			LPTA-1620
			LPTB-1572
			GEN-750
35.	STEAM ADMISSION FULL OR PARTIAL ARC TYPE		FULL ARC
36.	NO. OF MSV		02
37.	NO. OF MCV		02
38.	NO. OF OLV		01
39.	NO. OF IPSV		02
40.	NO. OF ICV		02
41.	HP CASING TYPE (BARREL TYPE OR		VERTICALLY SPLIT
	HORIZONTALLY SPLIT)		
42.	HIP CASING TYPE (BARREL TYPE OR		NA
	HORIZONTALLY SPLIT)		
43.	IP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
	HORIZONTALLY SPLIT)		
44.	LP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
	HORIZONTALLY SPLIT)		
45.	LP TURBINE BURSTING DIAPHRAGM		
	a) Number		01 per CASING
	b) Diameter	mm	800
	c) Material	W / 2/)	1.4301+TEFLON+1.4301
4.0	d) Bursting Set Pressure	Kg/cm2(a)	1.4
46.	WHETHER LPT LAST STAGE BLADE VIBRATION		NO
TUDDING	MONITORING SYSTEM PROVIDED.		
	LUBE OIL SYSTEM		MOTOR DRIVEN
1.	MAIN OIL PUMP (MOTOR/SHAFT DRIVEN)		MOTOR DRIVEN
2.	NO. OF MOP & CAPACITY MOP DIS. PR. AND SPEED		2x100% & 59 lps
3.	NO. OF AOP		6.2 bar (g) & 3000rpm
4.			NA 1/100% 8 F0 lpc
5. 6.	NO. OF EOP & CAPACITY EOP DIS. PR. AND SPEED		1x100% & 59 lps 2.6 bar (g) & 3000rpm
-			2.6 par (g) & 3000rpm 1x100% AC & 1x100% DC
7.	NO. OF JOP(AC/DC)		3.07 lps, 175 bar (g), 1470rpm (AC)
8.	JOP (BOTH DC &AC) CAPACITY, DIS. PR. AND SPEED		8 1750rpm (DC)
9.	TYPE OF LUBE OIL		ISO VG 46
10.	TYPE OF COOLER		SHELL & TUBE TYPE
11.	LUBE OIL TANK CAPACITY	Lit	32000/45000
11.	(NORMAL/MAXIMUM)	LIL	32000/ 43000
12.	NORMAL TANK LEVEL	mm	510 from Top of Tank
13.	TANK LEVEL HI/LO	mm	470/550 From Top of Tank
14.	TYPE OF PURIFIER PROVIDED	111111	CENTRIFUGE TYPE
15.	NORMAL LUBE OIL TEMPERATURE	Deg.C	50
	ING SYSTEM & CONTROL OIL SYSTEM	DES.C	50
1.	TYPE OF GOVERNING		D-EHC TYPE THROTTLE
1.	TITE OF GOVERNING		GOVERNING (HP GOV.)
			GOVERNING (FF GOV.)

2.	GOVERNING OIL PRESSURE	Kg/cm2(g)	160
3.	MAKE		SIEMENS, GERMANY
4.	DEAD BAND OF THE GOVERNOR		0.06%
5.	RANGE OF REGULATION		5% (ADJUSTABLE BETWEEN 3% - 8%)
6.	TYPE OF GOVERNING OIL		TRIXYLENYL PHOSPHATE ESTER
7.	CONTROL OIL TANK CAPACITY (NORMAL)	lit	1000
8.	DIFFERENT TANK LEVELS (NORMAL/HI/LO)	mm	150/80/265 from Tank Top
9.	NO. OF OIL PUMP AND TYPE		2x100% AXIAL PISTON TYPE
10.	PUMP CAPACITY, DIS. PR. & SPEED		62 l/min,160 bar (g) & 1500rpm
11.	CONTROL OIL PURIFIER DETAILS		MAKE: Amberlist A21 Molecular
			Sieve A1/8
			TYPE: REGENERATING UNIT
12.	PURIFIER PUMP DETAILS		NO. – 2x100%
			CAPACITY - 0.021-0.024 m3/h

TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2x800MW)



TYPICAL CONFIGURATION OF TG UNIT OF TELANGANA PHASE-I (2X800MW)

SL. NO.	ATTRIBUTES	UNIT	VALUE
CYCLE PA	RAMETERS:		
1.	MAIN STEAM PRESSURE	Kg/cm2(a)	270
2.	MAIN STEAM TEMPERATURE	Deg.C	600
3.	REHEAT STEAM TEMPERATURE	Deg.C	600
4.	NO. OF REHEATS		01
5.	DESIGN BACK PRESSURE	mmHg (a)	Avg.77
6.	FINAL FEED WATER TEMPERATURE	Deg.C	305
7.	GURANTEED HEAT RATE AT TMCR	Kcal/KWH	1776
8.	GURANTEED HEAT RATE AT TMCR 105% OF	Kcal/KWH	1772.8
О.	TMCR	KCai/ KVVII	1772.0
9.	GURANTEED VACUUM	mmHg (a)	63.73
10.	COLD START UP PARAMETERS		108/400/390
10.		ata/Deg.C/	108/400/390
4.4	(MS Pr. /MS Temp. /HRH Temp.)	Deg.C	240
11.	TOTAL COLD START UP TIME	min	240
MAIN TU			T
1.	MAKE		GE
2.	COMBINED HP-IP		NO
3.	DOUBLE LP TURBINE		YES
4.	NO. OF TURBINE CYLINDERS		4
5.	NO. OF CASING IN HPT		02
6.	NO. OF CASING IN HP-IP		NA
7.	NO. OF CASING IN IPT		02
8.	NO. OF CASING IN LPT		02
9.	TYPE OF TURBINE INSULATION		MINERAL WOOL SPRAY
10.	ACOUSTIC ENCLOSURE PROVIDED OR NOT		NO
11.	LPT EXHAUST DOWNWARD /AXIAL		DOWNWARD
12.	NO. OF EXTRACTION		9
13.	TYPE OF HPT (SINGLE/DOUBLE FLOW)		SINGLE
14.	TYPE OF IPT (SINGLE/DOUBLE FLOW)		DOUBLE
15.	TYPE OF LPT (SINGLE/DOUBLE FLOW)		DOUBLE
16.	COMPOUNDING (TANDEM/CROSS)		TANDEM
17.	BEARING SPAN (HP/HIP/IP/LP)		5177/-/7368/5230/5230
	, , , , , ,	mm	
18.	ROTOR DESIGN (WELDED/ONE PIECE		HP- TWO FORGED PIECES WELDED
	FORGED)		TOGETHER
			IP- TWO FORGED PIECES WELDED
			TOGETHER
40	TYPE OF CLAND SEALS		LP- ONE PIECE FORGED
19.	TYPE OF GLAND SEALS		SPRING BACKED LABYRINTH TYPE
20.	HPT MODULE NO.	1	HD4
21.	HIP MODULE NO.		NA
22.	IPT MODULE NO.		MD5
23.	LPT MODULE NO.		ND37
24.	NO. AND TYPE OF TURBINE BEARING		01 NO. TILTING PAD TYPE THRUST
			BEARING
			07 NOS JOURNAL BEARING
25.	NO. OF HP TURBINE BLADES		22 (ALL REACTION TYPE)
26.	NO. OF HIP TURBINE BLADES		NA
27.	NO. OF IP TURBINE BLADES		20x2 (ALL REACTION TYPE)
28.	NO. OF LP TURBINE BLADES		5x2x2 (ALL REACTION TYPE)
29.	LPT LAST STAGE BLADE TYPE		SHROUDED (WITH SNUBBER)
30.	LPT LAST TWO STAGE BLADE DETAILS:		LAST STAGE LAST BUT ONE STAGE
	a) BLADE HEIGHT	mm	893 521.5
	a) BLADE HEIGHT		
	b) ROOT DIAMETER	mm	1540 1614

	d) TIP DIAMETER	mm	3339.88 2675.64
31.	RADIAL CLEARANCE OF EACH BEARING	mm	0.25 TO 1.484
32.	TYPE OF BARRING GEAR		MOTORISED
32.	(HYDRAULIC/MOTORISED)		Wie Ferniseb
33.	BARRING SPEED	rpm	16
34.	CRITICAL SPEED	rpm	HPT-1987
0	S 6.125		IPT-1279
			LPTA-1607
			LPTB-1666
35.	STEAM ADMISSION FULL OR PARTIAL ARC		FULL ARC
33.	TYPE		1 02270
36.	NO. OF MSV		02
37.	NO. OF MCV		02
38.	NO. OF OLV		02
39.	NO. OF IPSV		02
40.	NO. OF ICV		02
41.	HP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
71.	HORIZONTALLY SPLIT)		TIOMEONIALLI SI LII
42.	HIP CASING TYPE (BARREL TYPE OR		NA
72.	HORIZONTALLY SPLIT)		NA .
43.	IP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
45.	HORIZONTALLY SPLIT)		HOMZONTALLT STEIT
44.	LP CASING TYPE (BARREL TYPE OR		HORIZONTALLY SPLIT
44.	HORIZONTALLY SPLIT)		HOMZONTALLT STEIT
45.	LP TURBINE BURSTING DIAPHRAGM		
45.	a) Number		01 per CASING
	b) Diameter	mm	DN600
	c) Material	mm	PTFE embedded between Inconel
	c) Waterial		600 alloy
	d) Reliving Capacity	Kg/s	31
	e) Bursting Set Pressure	Kg/cm2(a)	1.5
46.	WHETHER LPT LAST STAGE BLADE VIBRATION	Rg/CIIIZ(a)	NO NO
40.	MONITORING SYSTEM PROVIDED.		NO
TURRINE	LUBE OIL SYSTEM		
1.	MAIN OIL PUMP (MOTOR/SHAFT DRIVEN)		SHAFT DRIVEN
	NO. OF MOP & CAPACITY		1x100% & 62.77 lps
2.	AOP DIS. PR. AND SPEED		·
3.			0.45 Mpa(g) & 1023.5rpm
4.	NO. OF AOP & CAPACITY		2X100% & 222.1 m3/h
5.	AOP DIS. PR. AND SPEED		54.1m & 1485rpm
6.	NO. OF EOP & CAPACITY		1x100% & 88.9 m3/h
7.	EOP DIS. PR. AND SPEED		1.3 bar (g) & 1450rpm
8.	NO. OF JOP(AC/DC)		1x100% AC & 1x100% DC
9.	JOP (BOTH DC &AC) CAPACITY, DIS. PR. AND		63 l/min, 260 bar (g), 1475rpm
	SPEED		(AC) & 1450rpm (DC)
10.	TYPE OF LUBE OIL		ISO VG 46
11.	TYPE OF COOLER		PHE TYPE
12.	LUBE OIL TANK CAPACITY	Lit	40000/44000
	(NORMAL/MAXIMUM)		
13.	NORMAL TANK LEVEL	mm	360 from Top of Tank
14.	TANK LEVEL HI/LO	mm	170/940 From Top of Tank
15.	TYPE OF PURIFIER PROVIDED		COALESCER TYPE
16.	NORMAL LUBE OIL TEMPERATURE	Deg.C	45
	INC CYCTEM & CONTROL OIL CYCTEM		
OVERN	ING SYSTEM & CONTROL OIL SYSTEM		
OVERN 1.	TYPE OF GOVERNING		D-EHC TYPE THROTTLE

2.	GOVERNING OIL PRESSURE	bar(g)	42
3.	MAKE		ALSPA
4.	DEAD BAND OF THE GOVERNOR		0.06%
5.	RANGE OF REGULATION		3% -8%
6.	TYPE OF GOVERNING OIL		FYRQUEL
7.	CONTROL OIL TANK CAPACITY	lit	2200
8.	DIFFERENT TANK LEVELS (NORMAL/HI/LO)	mm	291/196/386 from Tank Top
9.	NO. OF OIL PUMP AND TYPE		2x100% AXIAL PISTON TYPE
			2x100% AXIAL PISTON TYPE
			2x100% AXIAL PISTON TYPE
			(PRIMARY CIRCUIT)
			2x100% AXIAL PISTON TYPE
			(SECONDARY CIRCUIT)
10.	PUMP CAPACITY, DIS. PR. & SPEED		210 l/min, 42 bar(g) & 1500rpm
			150 l/min, 42 bar(g) & 1500rpm
			108 l/min, 42 bar(g) & 1500rpm
			(PRIMARY CIRCUIT)
11.	CONTROL OIL PURIFIER DETAILS		MAKE: M/s CJC
			TYPE: ION EXCHANGE TYPE
12.	PURIFIER PUMP DETAILS		NO. – 2x100%
			CAPACITY – 180 l/min