

GAS TURBINE ENGINEERING
SHIPPING WEIGHTS AND DIMENSIONS
PROJECT:2 X FR9E, RVUNL, DHOLPUR

SL.NO	DESCRIPTION	WT. (kg)	DIMENSIONS OF BOX (Length x Width x Height) (m)
1	Gas Turbine Fr-9E Flange to Flange	230,000	12.6 x 4.6 x 5
2	Accessory Package (Accessory Base)	60,000	8.4 x 3.4 x 4.8
3	Exhaust Frame Blowers	1,000	2.2 x 1.5 x 1 (2 Nos.)
4	Exhaust Plenum	9137-Top 9818-Lower 460-Loose items	5.661 x 3.113 x 3.632 5.661 x 3.061 x 3.632 0.6 x 0.7 x 2.5
5	Base Exhaust Plenum	1000	6.5 x 1.2 x 1 (2 nos)
6	Lube oil Centrifuge	3500	3 x 1.5 x 1.8
7	Load Coupling with Hardware	2850	4.5 x 1.5 x 1.1
8	Accessory Coupling & Hardware	500	2.2 x 1 x 1
9	Guard Coupling Accessory	300	1.5 x 1 x 1
10	GT Walkway + Ladders	9,000	14 x 1.2 x 1.5 (3Nos.)
11	Jacking Oil Skid	1200	2.2 x 1.5 x 1.5
12	Piping Lube Oil Flush Field	700	4.5 x 1.5 x 1.1
13	Field Inter Connection Piping	25000	4.5 x 1.5 x 1.1 (10 nos)
14	Enclosure GT & Accessory Compartment	2000	6 x 3 x 3 (10 Nos)
15	Turbine Vent Fans	1,050	2.5 x 2.5 x 2 (2No.s) 2.2 x 1.8 x 1.8 (2No.s) 2.2 x 2 x 1 (2 N0.s) 1.5 x 1 x 0.5 (2No.s)
16	GT Cabling	3,000	15000
17	Generator Enclosure	1,720	6 x 3 x 3 (7 Nos)
18	Filter house (For GT and Generator)	8,000	10 x 3.5 x 3.5 (10 No.s)
19	APU	3,000	6 x 2 x 2.5
20	Cooler Finned-APU	1500	6 x 0.5 x 3.5
21	<u>Inlet Duct</u>		
	i) Inlet Plenum Extension	3,000	4.3 x 2.3 x 3 (2 nos.)
	ii) Inlet Duct Transition Pieces	3,500	9.8 x 3.5 x 3 (2 nos.)
	iii) Inlet Duct Expansion Pieces	2,250	10 x 3.5 x 0.6 (2 nos.)
	iv) Inlet Duct Elbow	11,000	10 x 3.3 x 3.7
	v) Silencer	20,000	10 x 3.5 x 3
	vi) Duct Pieces	6750	10 x 3.5 x 3 (4 nos)
	vii) Support Structure	5,000	10 x 3 x 3 (2nos) (W x D x H)
22	<u>Exhaust Dust</u>		
	i) Vertical Duct Assembly FR9N-VD-1	6,455	6.72 x 3.435 x 3 (2 nos)
	ii) Vertical Duct Assembly FR9N-VD-2	6,455	6.72 x 3.435 x 3 (2 nos)

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	iii) Vertical Duct Assembly FR9O-VD-3	6,038	6.72 x 3.435 x 3.508 (2 nos)
	iv) Silencer Assembly FR9N-SL1	11,265	6.9 x 3.4 x 3.050 (2 nos)
	v) Silencer Assembly FR9N-SL2	11,238	6.9 x 3.4 x 3.050 (2 nos)
	vi) Transition Duct Assembly FR9N-T1L	4,546	3.42 x 6.87 x 2 (1 no)
	vii) Transition Duct Assembly FR9N-T1R	4,492	3.42 x 6.87 x 2 (1 no)
	viii) Transition Duct Assembly FR9N-T2	6,190	6.63 x 3.31 x 3.52 (2 nos)
	ix) Expansion Joints	2,000	6 x 4 x 0.4 (3 nos)
	x) Exhaust Stack Shells		5 x 6.4 (dia)
	xi) Horizontal Duct	30,000	5 x 6 x 6
	xii) Silencer	25,000	5 x 6.4 (dia)
23	Sensor Arrangement Exhaust	75	0.1 x 0.05 x 0.015
24	Gas Valve Module	5000	4.5 x 2 x 1.6
25	CO2 Rack (CO2 bottle Racks)	4,000	3.5 x 1 x 2.5 (8 nos.)
26	Auxiliary Control Panel	700	1 x 0.915 x 2.286
27	Lube Oil Demister	3,000	2.5 x 1.6 x 2.5 (1 no)
28	Water Wash Skid	15000	3.5 x 3.2 x 8
29	Piping Arrangement Lube oil Junction Boxes	2000	4.5 x 1.5 x 1.1 (3 nos)
30	Piping Arrangement Lube oil Junction Boxes	12000	6.5 x 1.2 x 1 (3 No.s) 4.5 x 1.5 x 1.1 (2No.s)
31	Anchoring, Base Plates Positioning Blocks (Foundation Hardware-Concrete Embedments)	3350	1.2 x 1.5 x 3.5
32	Anchoring, Base Plates Positioning Blocks (Foundation Hardware Shims, Guideblock etc)	1590	0.4 x 0.5 x 1.5
33	Anchoring, Base Plates Positioning Blocks (Angle 75x75x45000)	400	0.175 x 0.325 x 6 (7 Nos.) 0.175 x 0.325 x 3 (1 No.)
34	Special Tools for GT Maintenance (Tools)	550	1 x 1 x 2.2

Notes:

1. All dimensions and weights given above are approximate only.
2. The above information is typical only. This is to be used for Erection Tender purpose only.
3. This information is for one GT and its dedicated auxiliaries only.
4. Requirement for the equipment supplied by other engineering agencies like PED are not covered.

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