



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-06/2013-14, Dt: 27.07.2013

PRICE BID

Item no.: 1

Name of work: Shifting, erection and commissioning of Fr.9E, Fr.5 and Fr.6 GT Ducting in GT Complex Test Plant (Mechanical work).

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
A	FR.9E INLET DUCT :				
1	Plenum Extension - 1 No. : 1909 Kg.				
2	Plenum Extension - 1 No. : 1909 Kg.				
3	Elbow Duct assembly - 1 No. : 13044 Kg.				
4	Inlet Duct silencer assembly - 1 No. : 11146 Kg.				
5	Expansion Joint ID-EJ-2 : 1 No. : 500 Kg.				
6	Expansion Joint ID-EJ-1 : 1 No. : 400 Kg.	97.70	Ton	7,837.50	7,65,723.75
7	Transition Duct - TD1 : 1 No. : 7967 Kg.				
8	Additional Inlet Duct-IAD-1 : 1 No. : 7600 Kg.				
9	Additional Inlet Duct-IAD-TB : 1 No. : 7239 Kg.				
10	Silencer Pannels : 30 Nos. : 700 Kg.				
11	Support Structure : 25000 Kg.				
	Total Wt.: 97714 Kg.				
12	Miscellaneous erection and fabrication cost like mismatching of ducts etc.	30.00	Ton	8,075.00	2,42,250.00
13	Vacuum Testing of whole ducting system by duly closing with fastners. The leakages if any should be arrested and vacuum test conducted till 316 cu.mtr.	50.00	Ton	1,710.00	85,500.00
14	Dismantling of temporary safety structures like platforms, supports, ladders etc.. Note: After completion of work, materials to be removed and handed over to Projects Department.	5.00	Ton	950.00	4,750.00
15	Mock up assembly of ducts, expansion belows, flanges, elbow ducts etc.	30.00	Ton	380.00	11,400.00
16	Painting of ducting (Supply of paint by BHEL)	2,000.00	Sq.M	23.75	47,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
B.	FR.9E EXHAUST DUCT :				
1	Horizontal Duct Ho- 1 No. : 6271 Kg.				
2	Horizontal Duct H1-U : 1 No. : 8210 kg.				
3	Horizontal Duct - H1L : 1 No. :9422 Kg.				
4	Conn. Retainers assembly : 1 No. : 2000 Kg.				
5	Horizontal Duct - H2 : 1 No.:7810 Kg.				
6	Horizontal Duct-H2 : 1 No.: 7810 Kg.				
7	Exhaust Extension Upper Part : 1 No. : 8087 Kg.				
8	Exhaust Extension end Part : 1 No. :4917 Kg.				
9	Horizontal Elbow Duct assembly : 1 No. : 35148 Kg.				
10	Additional Duct site assembly : 1 No. : 21636 Kg.				
11	Vertical Elbow duct assembly : 1 No. : 35156 Kg.				
12	Transition Duct assembly T1L : 1 No. : 4526 kg.				
13	Transition Duct assembly T1R : 1 No. : 4798 kg.				
14	Silencer - SL1 : 1 No. : 13229 Kg.				
15	Silencer - SL1 : 1 No. : 13229 Kg.				
16	Silencer - SL2 : 1 No. : 11238 Kg.				
17	Silencer - SL2 : 1 No. : 11238 Kg.				
18	Support Structure -1				
19	Transition Duct assembly T2L : 1 No. : 9803 Kg.	359.50	Ton	8,787.50	31,59,106.25
20	Transition Duct assembly T2R : 1 No. : 10077 Kg.				
21	Conn. Retainers assembly (T1 to VD1): 1 No. :2092 Kg.				
22	Ladder assembly Var.06 : 1 No.: 432 Kg.				
23	Ladder assembly Var.04 : 1 No.: 322 Kg.				
24	Ladder assembly Var.03 : 1 No.: 227 Kg.				
25	Support Structure assembly : 1 No. : 72316 Kg.				
26	Vertical duct assembly-VD1 : 1 No. : 6455 Kg.				
27	Vertical duct assembly-VD1 : 1 No. : 6455 Kg.				
28	Vertical duct assembly-VD2 : 1 No. : 6455 Kg.				
29	Vertical duct assembly-VD3 : 1 No. : 7648 Kg.				
30	Vertical duct assembly-VD3 : 1 No. : 7648 Kg.				
31	Vertical Duct site assembly : 1 No. : 1628 Kg.				
32	Ladder assembly : 1 No. : 350 Kg.				
33	T2- Duct door platform : 1 No. : 380 kg.				
34	Ducts ground support arrangement : 1 No.:2841 Kg.				
35	Platforms and ladders on stack : 1 No. : 4330 Kg.				
36	Expansion joint EJ9-1P : 1 No. : 1 No. : 2700 Kg.				
37	Expansion joint EJ9-2P : 1 No. : 1 No. : 2400 Kg.				
38	Silencer Pannel SP9-1 : 1 No. : 1700 Kg.				
39	Silencer Pannel SP9-2 : 1 No. : 1785 Kg.				
40	Aviation lamp & lighting arrester : 1 No. : 242 Kg.				
	Total Wt.: 359466 Kg.				
41	Miscellaneous erection and fabrication cost like mismatching of ducts etc.	75.00	Ton	8,075.00	6,05,625.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
42	Dismantling of temporary safety structures like platforms, supports, ladders etc.. Note after completion of work, materials to be removed and handed over to Projects Department.	5.00	Ton	950.00	4,750.00
43	Mock up assembly of ducts, expansion belows, flanges, elbow ducts etc.	30.00	Ton	380.00	11,400.00
44	Painting of the ducting (supply of paint by BHEL).	4,000.00	Sqm	23.75	95,000.00
C.	FR.6 EXHAUST DUCT :				
1	Horizontal Duct H1 : 1 No. : 3122 Kg.	133.10	Ton	8,787.50	11,69,616.25
2	Transition Duct assembly D2 : 1 No. : 5319 Kg.				
3	Silencer - SL1 : 1 No. : 10362 Kg.				
4	Transition Duct assembly D3 : 1 No. : 4274 Kg.				
5	Vertical Duct assembly-D8L : 1 No. : 3977 Kg.				
6	Platforms on support structure : 1 No. : 3358 Kg.				
7	Vertical Duct assembly-D8M : 1 No. : 3977 kg.				
8	Vertical Duct assembly-D8U : 1 No. : 3977 kg.				
9	Expansion Joint EJ6-2 : 1 No. : 1200 Kg.				
10	Vertical Duct assembly-D9 : 1 No. : 5057 kg.				
11	Silencer-SL2 : 1 No. : 4733 Kg.				
12	Expansion Joint EJ6-1 : 1 No. : 1850 Kg.				
13	Expansion Joint EJ5 : 1 No. : 900 Kg.				
14	Support structure : 1 No. : 25895 Kg.				
15	Ladder assembly LD-1 : 1 No. : 198 Kg.				
16	Ladder assembly LD-2 : 1 No. : 219 Kg.				
17	Ladder assembly LD-3 : 1 No. : 129 Kg.				
18	Duct Platform PF1 : 1 No. : 273 Kg.				
19	Duct Platform PF2 : 1 No. : 200 Kg.				
20	Expansion Joint EJ6-2C : 1 No. : 1100 Kg.				
21	Aviation lamp & lighting arrester : 1 No. : 135 Kg.				
22	Silencer Pannel SP6-1 : 1 No. : 900 Kg.				
23	Silencer Pannel SP6-2 : 1 No. : 457 Kg.				
24	Ceramic insulation : 1 : 384 Kg.				
25	Horizontal Duct D1 : 1 No. : 9199 Kg.				
26	Additional Duct assembly : 4 Nos. : 7761 Kg.				
27	Vertical Elbow duct : 1 No. : 9136 Kg.				
28	Plenum Top Cover assembly -PTC : 1 No.: 2310 Kg.				
29	GT side extension assembly : 1 No. : 1275 Kg.				
30	Vertical Elbow assembly : 1 No. : 10729 Kg.				
31	Horizontal Elbow assembly : 1 No. : 10541 Kg.				
32	Ground Supports : 1 : 200 Kg.				
	Total Wt.:133147 Kg.				
33	Miscellaneous erection and fabrication cost like mismatching of ducts etc.	25.00	Ton	8,075.00	2,01,875.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
34	Dismantling of temporary safety structures like platforms, supports, ladders etc.. Note after completion of work, materials to be removed and handed over to Projects Department.	3.00	Ton	950.00	2,850.00
35	Mock up assembly of ducts, expansion belows,flanges, elbow ducts etc.	30.00	ton	380.00	11,400.00
36	Painting of ducting (Supply of paint by BHEL).	1,200.00	Sq.M	23.75	28,500.00
D.	FR.5 EXHAUST DUCT :				
1	Extension Duct assembly : 1 No. : 668 Kg.	107.80	Ton	8,787.50	9,47,292.50
2	Horizontal Duct H0 : 1 No. : 3902 Kg.				
3	Horizontal Duct H1 : 1 No. : 5665 Kg.				
4	Horizontal Elbow Duct : 1 No. : 10933 Kg.				
5	Additional Horizontal duct assembly : 4No. : 7977 Kg.				
6	Vertical Elbow duct : 1 No.: 9136 Kg.				
7	Transition Duct assembly D2 : 1 No. : 5100 Kg.				
8	Silencer-SL1 : 1 No. : 9312 Kg.				
9	Silencer-SL2 : 1 No. : 4733 Kg.				
10	Transition Duct assembly D2 : 1 No. : 5164 Kg.				
11	Vertical Duct assembly-D8L : 1 No. :4954 Kg.				
12	Vertical Duct assembly-D8M : 1 No. :4954 Kg.				
13	Vertical Duct assembly-D8U : 1 No. :4954 Kg.				
14	Vertical Duct assembly-V9 : 1 No. :4960 Kg.				
15	Support structure : 13988 Kg.				
16	Platforms on support structure : 1 No. : 3377 Kg.				
17	Platforms over Vertical ducts : 1 No. : 2570 Kg.				
18	Expansion Joint EJ5-1 : 1 No. : 900 Kg.				
19	Expansion Joint EJ5-2 : 1 No. : 900 Kg.				
20	Expansion Joint EJ5 : 1 No. : 800 Kg.				
21	Silencer Pannel SP5-1 : 1 No. : 930 Kg.				
22	Silencer Pannel SP5-2 : 1 No. : 500 Kg.				
23	Aviation lamp & lighting arrester : 1 No. : 222 Kg.				
24	Ladder assembly LD-7 : 1 No. : 400 Kg.				
25	Ladder assembly LD-8 : 1 No. : 235 Kg.				
26	Ladder assembly LD-9 : 1 No. : 157 Kg.				
27	Ceramic insulation : 390 Kg.				
	Total Wt.: 107781 Kg.				

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
28	Miscellaneous erection and fabrication cost like mismatching of ducts etc.	20.00	Ton	8,075.00	1,61,500.00
29	Dismantling of temporary safety structures like platforms, supports, ladders etc.. Note : after completion of work, materials to be removed and handed over to Projects Department.	3.00	Ton	950.00	2,850.00
30	Mock up assembly of ducts, expansion belows, flanges, elbow ducts etc.	30.00	Ton	380.00	11,400.00
31	Painting of ducting (Supply of paint by BHEL).	1,200.00	Sq.M	23.75	28,500.00
	Total value of work			₹	75,98,788.75
Total : ₹ Seventy five lakhs ninety eight thousand seven hundred eighty eight and seventy five paise only					

Note:

1	VAT, Service Tax are extra and will be released on submission of the valid documents.
2	All the unused/excess materials issued by BHEL shall be returned to the stores after use.
3	The items/quantities indicated in the schedule are tentative and may increase or decrease or delete.
4	All unused materials/scrap generated to be shifted to scrap yard or as per site engineer's instructions to avoid accumulation of scrap in the site area.
5	The Price discount/increase offered by the agency is proportionately applicable for all the items in the schedule.
6	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		