

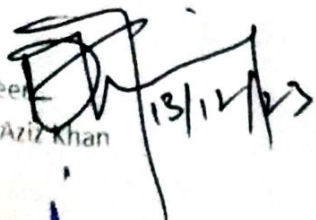
Revised BOQ FOR Modification & Repair OF Boiler 91131

No	Description	Quantity	Services	Rates
1	Replacement of boiler tubes Size OD 63.5 mm X 3.5 mm X 4725 mm ASTM A-192/530	134		
2	Boiler Rear Lateral plate ASTM A-515. BS 1501:430, size=8x4x16mm, quantity=2	01 job		
3	Dismantling boiler rear door	01 job		
4	Dis intection of corroded combustion chamber area	01 job		
5	supply & installtion of new combustion chamber area, size=od 96inch,thickness=16mm,length=36 inch	01 job		
6	Fabrication & Installation of new rear door as per combustion area with proper hinges, thickness=10mm, plates=8x 4, quantity=3. ASTM=235	01 job		
7	Fabrication & Installation of water cooled combustion chamber (tubular type) with proper access door. Headers: OD 4"Ø x 60 ft ASTM A 106	01 job		
8	Anti-corrosive film coating and insulation and cladding of boiler shell. Appexure compound No=1, Rock well density=50x 80, Gi Sheet gauge=24 SWG.	01 job		
9	Fabrication & Installation of explosion doors.1 door=8 inch	2		
10	Fabrication & Installation of mud holes & covers with lynks. Hole size= 14x10, thichness of ring=1inch, cover=16mm, studs=4	2		
11	Modification of existing Mobryes with flat gauge glass & probe rods,	2		
12	Supply & Installation of globe valve flange type 2 1/2" PN 40	2		
13	Supply & Installation of safety valves flange type 3"Ø	3		
14	Replacement of Blow down valves flange type with connecting lines 2"Ø	2		
15	Supply & Installation Gas Flow meter 4 inch. Roots company	1		
16	Overhauling of Slow Opening Valve	1 job		
17	Over hauling of gas Reguloator	1 job		

18	Pilot Valve Overhauling	1 job	
19	Supply & installation of Blow Down Valve with piping and fitting for extended chamber	1 job	
20	Replacement of valves of old pumps	11	
21	Overhauling of Old Pumps, Quantity =4	1 job	
22	Supply & installation of Sandwich type NRV at Pump outlet	4	
23	Chemical Dosing Pump, type= BT4B 0708, BT4B 0708 + Degassing Head	3	
24	Installation of Gate Valve with Flanges and piping at startup of softner	1	
25	Supply & installation of air vents 1" valve	3	
26	Supply & installation of Mobri & Lines Valves, here valves will be 4	1	
27	Air pressure switch replacement	1	
28	Ultrasonic testing of welded joints of shell, tubes, header, end plate & front plate	1 job	
29	Radiographic examination report Procedure= NE-101 of same as above	1 job	
30	Hydro testing for 2hrs after commissioning	1 job	
31	Hardness test report of shell, tubes, front plate & rear plate	1 job	
32	Modulation Motor for gas with butterfly valve	1	
33	Supply and installation of Gas Train shutoff assembly (Gas Valve 220 v 50 hz) upto 3"	1	
34	Gas line Handle Butterfly Valve upto 3"	1	
35	Ignition Gas line valve	1	
36	Ignition Line regulator size=1"	1	
37	Wires And Cables	1 Job	
38	Continuous surface Blow Down Valve	1	
39	Primary 3" blow down valve	1	
40	Secondary 3" blow down valve	1	
41	SS insulation of complete boiler with aluminum blanket at back door and glass volve on complete boiler	1 job	

Boiler Engineer

Engr. Ahsen Aziz Khan

 13/11/23

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