

**BOQ FOR Modification & Repair OF Boiler 91131**

	Description	Quantity	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, SS 400	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 yolks. Hole size= 14x10, thichness of ring=1inch, cover=16mm, studs=4	2	
11	Fabrication & Installation of Mobryes with flat gauge glass with probe rods,	2	
12	Replacement of flange type feed check valves 2 ½" Ø PN 40 Imported	2	
13	Supply & Installation of globe valve flange type 2 ½" PN 40	2	

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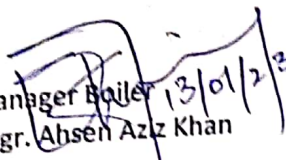
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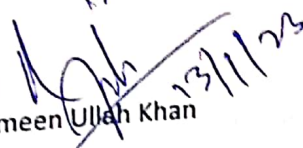
	Supply & Installation of safety valves flange type 3"Ø	3	
	Replacement of Blow down valves flange type with connecting lines 2"Ø	2	
16	Refurbishment of water softening plant with valves & Chemical Dosing Chamber. Replacement of zeolite, gravel and mesh for filtration	1 job	
17	Supply & Installation Gas Flow meter 4 inch. Roots and display in HMI	1	
18	Overhauling of Slow Opening Valve	1 job	
19	Over hauling of gas Reguloator	1 job	
20	Pilot Valve Overhauling	1 job	
21	Supply & installation of Blow Down Valve with piping and fitting for extended chamber.	1 job	
22	Replacement of valves of old pumps	11	
23	Overhauling of Old Pumps with Y-filter filters are 8	1 job	
24	Supply & installation of Sandwitch-type NRV at Pump-outlet	4	
25	Chemical Dosing Pump, type= BT4B 0708, BT4B 0708 + Degassing Head	3	
26	Installation of Gate Valve with Flanes and piping at startup of softner	1	
27	Supply & installation of air vents 1"	3	
28	Supply & installtion of Mobri Lines Valves, here valves will be 4	2	
29	Air pressure switch replacement	1	
30	Ultrasonic testing of welded joints of shell,tubes,header, end plate & front plate	1 job	
31	Radiographic examination report Procedure= NE-101 of same as above	1 job	
32	Hydro testing for 2hrs after comissioning	1 job	
33	Hardness test report of shell, tubes, front plate & rear plate	1 job	
34	Steam Pressure sensor with module	1	
35	Gas pressure sensor with module	1	

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	Steam Temperature sensor with module	1	
	Exhaust temperature sensor with module	1	
38	Feed water temperature sensor	1	
39	Modulation Motor for gas with butterfly valve	1	
40	Gas Train shutoff assembly ( Gas Valve 220 v 50 hz) upto 3"	1	
41	Steam Pressure Switch	1	
42	Electric Panel Upgrade with programmer	1	
43	Gas line Handle Valve upto 3"	1	
44	Ignition Gas line valve	1	
45	Ignition Line regulator	1	
46	Air Pressure Switch	1	
47	Wires And Cables	1	
48	Human Machine Interface Weintek 8102	1	
49	Contious Blow Down Valve with Module	1	

  
 Manager Boiler 13/01/23  
 Engr. Ahsen Aziz Khan

  
 SM (E) 13/1/23  
 Engr. Ameen Ullah Khan

## TERMS & CONDITION OF BOILER 91131

### Modification & Repair

1. The firm must be registered with Pakistan Engineering Council in Category M6/ C-6 or above category. ( ME-06 is for specialized job)
2. 2% CDR of the total amount must be attached with bid.
3. Income tax registration/ all previous income tax must be attached with the bid and must be active on ATL including last year income tax return.
4. Sales tax registration must be included.
5. Last 3 year sales tax must be included.
6. Cutting / Over writing & condition tenders bids will not be considered.
7. Firm must not be involved in litigation with any Government agency/ Department.
8. A STAMP Paper must be attached along with the Bid stating that firm is not black listed and not involved in Litigation against any department.
9. Bank statement of the contractor for the last three years must be attached with the bid.
10. Sub letting of the contractor to other contractor is allowed in case of any criticality to job.
11. Any false information if given in a bid will lead termination of contract and all deposited fees/ CDR will be for fitted.
12. Technical Staff and skill Labour must be present at campus of the institute along with the necessary material for execution of work on emergency bases after signing the agreement.
13. The firm must be registered with KP revenue authority.(KPPRA)
14. The tender validity is up to 90 days.
15. Hand written quoted rates will not be accepted.
16. The tender will be single stage double envelope bases as per KPPRA rule.
17. The tender will be opened as per advertisement.
18. In case of increase in quantity more then 15%, the prior approval of competent authority of employer must be obtained, otherwise no claim will be entertained on excess quantities.
19. Safety of its employee from injury will be responsibility of the contractor.
20. In-complete tenders / bids will be rejected forthwith.
21. Contractor will work under the supervision of Manger Boiler & pressure Vessel.
22. All material/ equipment will be checked & approved by the concerned engineer before commissioning of work.
23. Tax will be conducted as per GOP rules.
24. Bill should clearly indicate the NTN/GST number.
25. Full & final payment will be after successful completion of work on submittal of bill & after getting approval from competent authority.
26. Payment will be made after successful completion of work subject to verification of boiler engineer & chief boiler Inspector KPK in liaison with ATH Committee.

27. All material supply, erection & commissioning are at contractor end while after verification of Concern engineer.
28. Labor charges, transportation, lifting & re-fixing charges for all purposes of the contract, contractor is responsible.
29. The contractor shall ensure that their site staff strictly maintain discipline at ATH premises and strictly comply with the instruction issued from time to time by the concerned engineer or his nominated representative. The defaulter would be terminated immediately.
30. In case any equipment or part or component is required to be removed from the system for repair /replacement or modification, the contractor must obtain prior approval in writing from the boiler engineer or his nominated representative ,explaining reason for such requirement.
31. The contractor shall be bound to provide to their staff at site their own risk and cost all the related testing equipment kits, materials decaling sets and effective decaling materials welding sets, high vacuum pumping sets, gas charging plants all kind of gases i.e. nitrogen/oxygen/acetylene gases etc. necessary to expedite operation, servicing reasons for such requirement.
32. ATH shall not play for the material involved in such repair which shall occur due to neglectful operation/maintenance and servicing of the equipment by the contractors staff during erection & commissioning.
33. It shall be the sole responsibility of the contractor without any financial claim, to keep all the indicating devices, instruments control, safety device (electronics, electrical, mechanical, hydraulic and pneumatic employed on various equipments and system perfectly.
34. All the repairs /replacement and rectification of the defects and malfunctioning of the equipment must be attended in time.
35. The bidder must inspect the site before quoting the rates.ATH has the right to reject any bid with unrealistic rates or unworkable rate without assigning any reasons.
36. The bidder must furnish along with bid the breakup of their quote as under. If the breakup is not mentioned the bid shall be considered as INCOMPLETE BID.
37. The contractor will give be responsible for its third party evaluation after erection & commissioning project by another contractor which will be witnessed by boiler Engineer and chief boiler inspector KPK.
38. During the witness in above clause 37, the financial expenses will be charged by ATH vender who would be working on the project.
39. Target plate testing will be executed by vender in the presence of boiler engineer.
40. The contractor shall ensure that their site staff strictly maintain discipline at the ATH premises and strictly comply with the instructor issued from time to time by boiler engineer or his nominated representative the defaulters shall be penalized Ra 5000/-for each case.
41. The contractor shall responsible to arranges security passes to their operational staff upon receipt of work order.
42. The contractor must be registered as repairer and special jobs carrier from industries commerce & Technical Education Department.
43. After commissioning of boiler .contractor is responsible for any material failure for 3 year.

44. As per Non medical & technical items ledger, parameter Sr No 03 Job is relevant to repairing and new supply installation if found out or order ,so vender could be repairer or manufacturer.
45. As per Non medical & technical items ledger, parameter Sr.No.05 Job doesn't need ISO certification.

M. Husain Abbasi  
Boiler Supervisor  
19/11/23  
BOILER SUPERVISOR  
Ayub Teaching Hospital  
Abbottabad

Engr. Ahsen Aziz Khan  
Manager Boiler Dept  
Ayub Teaching Hospital  
Abbottabad  
19/11/23

Engr. Ameen Ullah Khan  
Senior Manager ( E )  
19/11/23