

FCB BOILER TUBES (AS PER NZOIA SUGAR DRG NO H/0242)

FCB BOILER DETAILS

- i. Make: FCB Bagasse fired, water tube boiler
- ii. Model: BR1 23/37
- iii. Capacity: 27 Tons of Steam per Hour

OPERATING CONDITIONS

- i. Furnace Temperature: 900°C
- ii. Test Pressure: 40 Bar
- iii. Operating Pressure: 25 to 29 Bar
- iv. Steam Temperature: 350°C

| TUBE NO. | DESCRIPTION | QUANTITY (PCS). |
|-----------------|--|------------------------|
| 201 | Bank tube OD 63.5 x 3.25mm | 1 |
| 202 | Bank tube OD 63.5 x 3.25mm | 1 |
| 107 | Bank tube OD 63.5 x 3.25mm | 1 |
| 116 | Bank tube OD 63.5 x 3.25mm | 1 |
| 101 | Bank tube OD 63.5 x 3.25mm | 40 |
| 102 | Bank tube OD 63.5 x 3.25mm | 40 |
| 103 | Bank tube OD 63.5 x 3.25mm | 40 |
| 104 | Bank tube OD 63.5 x 3.25mm | 40 |
| 105 | Bank tube OD 63.5 x 3.25mm | 40 |
| 106 | Bank tube OD 63.5 x 3.25mm | 40 |
| 108 | Bank tube OD 63.5 x 3.35mm | 40 |
| 109 | Bank tube OD 63.5 x 3.25mm | 40 |
| 110 | Bank tube OD 63.5 x 3.25mm | 40 |
| 111 | Bank tube OD 63.5 x 3.25mm | 40 |
| 112 | Bank tube OD 63.5 x 3.25mm | 40 |
| 113 | Bank tube OD 63.5 x 3.25mm | 40 |
| 114 | Bank tube OD 63.5 x 3.25mm | 40 |
| 115 | Bank tube OD 63.5 x 3.25mm | 40 |
| 118 | Furnace side wall tube OD 76.1 x 5mm | 42 |
| 119 | Front wall/roof tube OD 76.1 x 3.25mm | 25 |
| 120 | Rear wall/screen OD 76.1 x 3.25mm | 24 |
| 121 | Rear wall/screen OD 76.1 x 3.25mm | 24 |
| 122 | Rear wall/screen OD 76.1 x 3.25mm | 24 |
| 127 | Furnace side wall tube OD 76.1x 5mm | 2 |
| 128 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 129 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 130 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 131 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 132 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 133 | Top header steam risers OD 76.1 x 3.25mm | 4 |
| 134 | Top header steam risers OD 76.1 x 3.25mm | 4 |

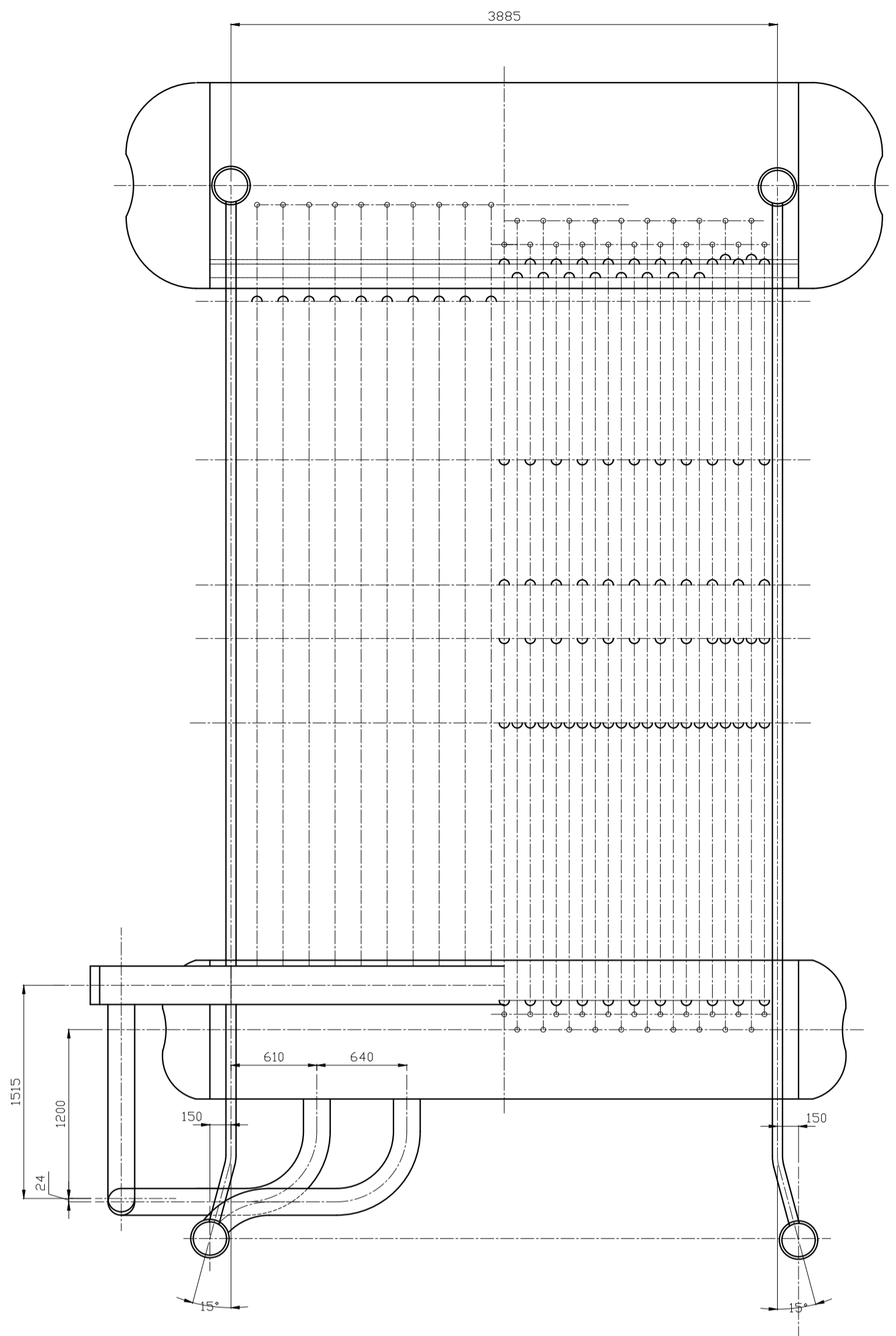
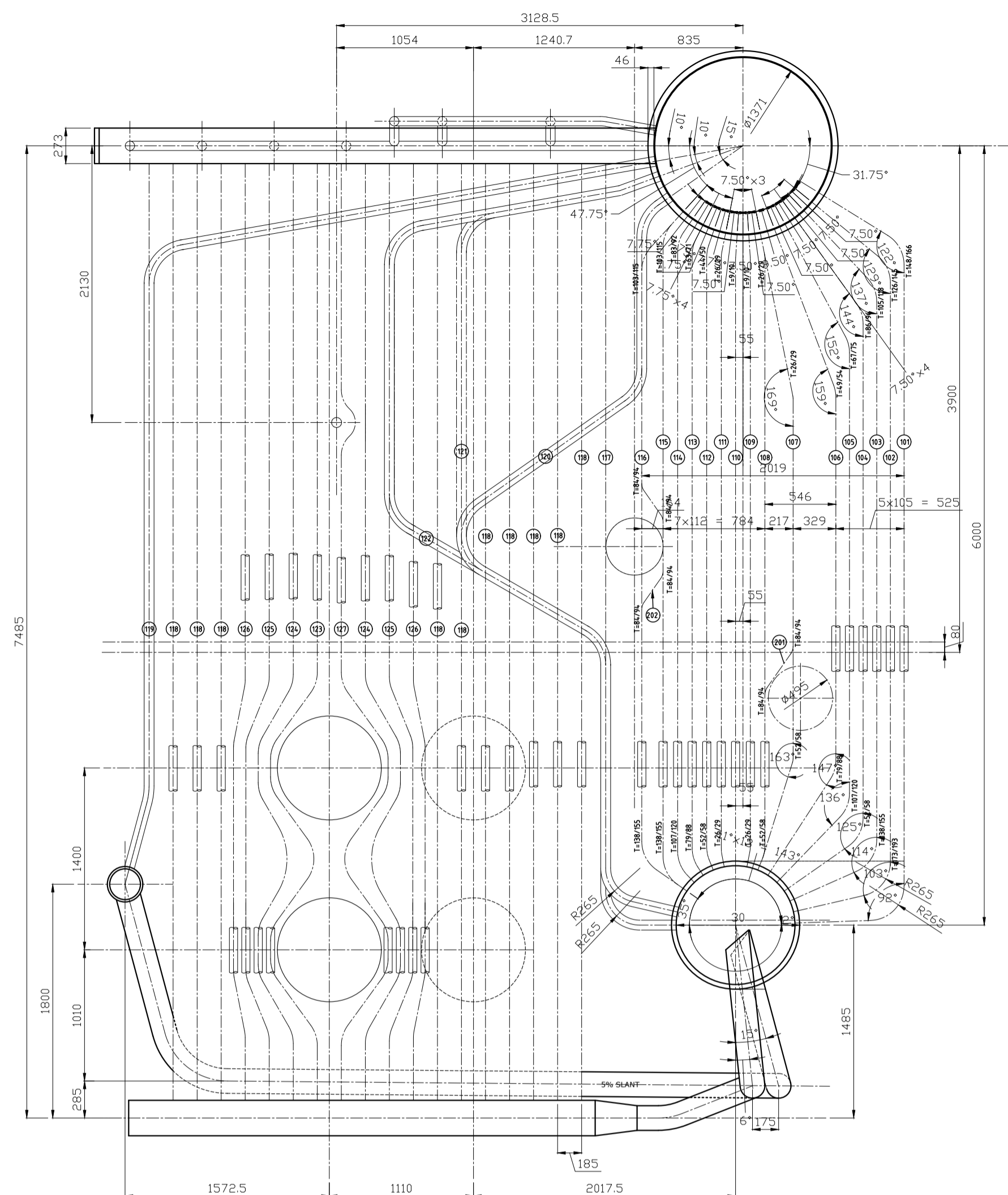
Tubes to be manufactured from Seamless drawn tubes of Grade A 37 Steel

2. SUPER HEATER ELEMENTS (NSC DRAWING NO.H/0194)

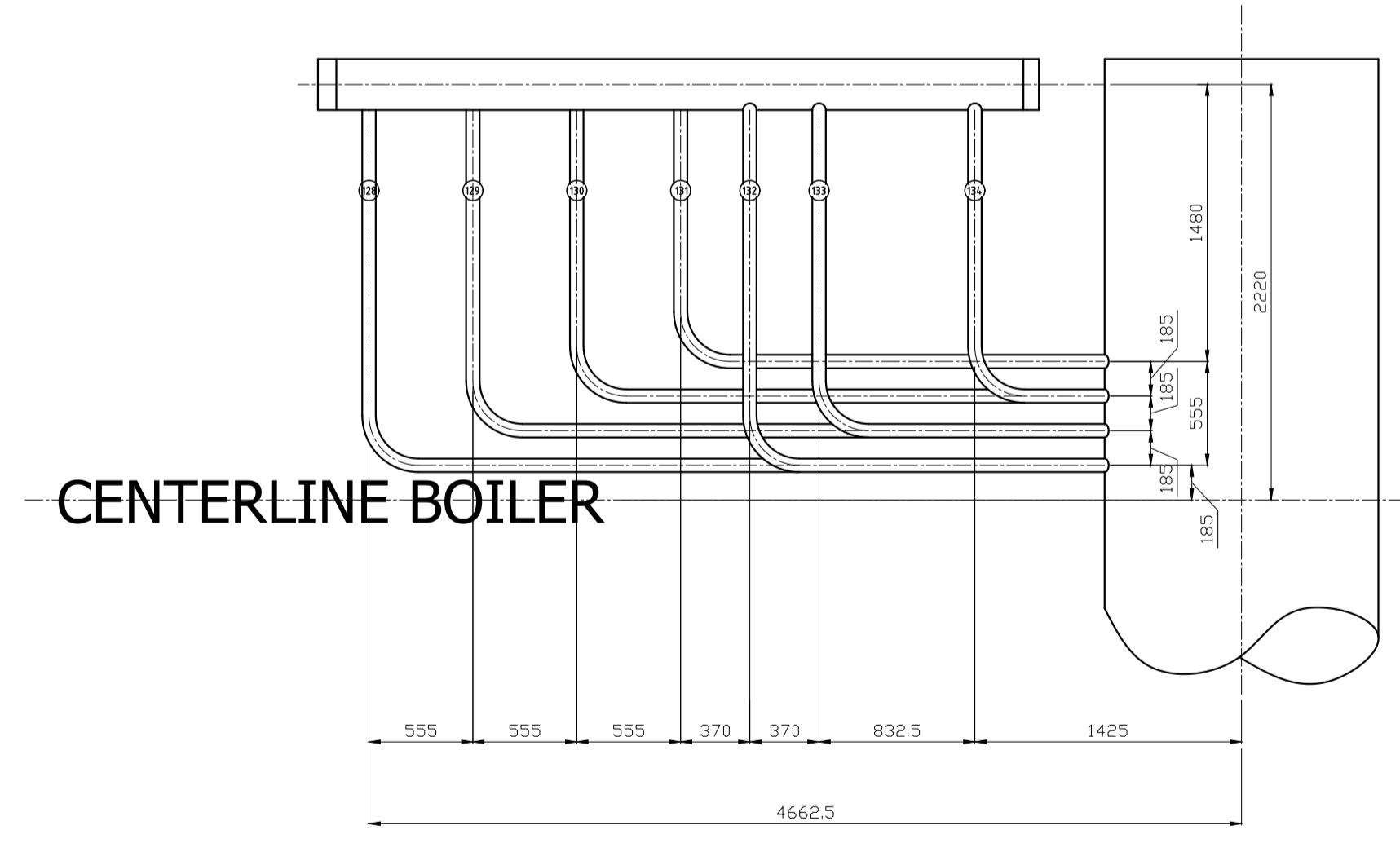
| | | |
|--------------------|---|----------------------|
| Outside diameter | - | 38mm |
| Thickness | - | 3.2mm |
| Total No. of tubes | - | 30 pcs |
| Type | - | Seamless schedule 80 |

REQUIREMENT

- i. Must be boiler tube manufacturers or designers
- ii. Indicate delivery time
- iii. Indicate Warranty/guarantee period (not less than 5 years from date of supply under proper use).
- iv. Give both physical and chemical properties
- v. Provide test certificate in accordance with ASME-SA-450 from manufacturer (test to include x-ray, ultrasonic or eddy current among others) during delivery of tubes.
- vi. Tubes should not be painted but to be marked and coated with standard anti-rust compound for boiler tubes
- vii. Above information will be used for technical evaluation.



NB:-
 BENDING RADIUS = 226
 TUBES ϕ = 63.5
 TUBES THICKNESS = 3.2



CENTERLINE BOILER



nzoia sugar company limited
 HEAD OFFICE: P.O. Box 285
 Bungoma - 50200
 Tel: +254 055 30500
 Email: factm@nzoiasugar.com

Sweetening Kenya
 since 1978

| | | | |
|--|------------|-------------|---------------------------|
| Title : FCB BOILERS G.A RETUBING DETAILS | | | |
| Drawn: | Date: | Checked : | Date: |
| Agunda R. O. | 15/07/2020 | Nyalwal G. | 15/07/2020 |
| Approved : | Date: | Material : | Ref. No : |
| Ogeke K. | 15/07/2020 | As Provided | FCB Drg.No.156920-DECE-04 |
| Scale : | Units : | Revision: | Sheet : |
| nts | mm | 0 | 1 of 1 |
| Drg No : | H/0242 | | |