

No.KFD/KOCK/BLR/DUCT/2025/ 531

26.11.2025

### QUOTATION NOTICE

Sealed quotations are invited from reputed companies/firms/fabricators/manufacturers for the fabrication and erection of the inlet duct connecting the Mechanical Dust Collector (MDC) to the Induced Draft (ID) fan, along with dynamic balancing of the ID fan impeller, for **Boiler K-1153 (Thermodyne)**.

#### 1. Scope of Work

- Fabrication, supply, transportation and erection of inlet duct (straight duct, top bend, bottom bend) along with flanges and high-temperature gaskets.
- Surface preparation and application of protective coatings.
- Dynamic balancing of ID fan impeller as per ISO standards.
- Painting for Impeller casing to be done
- Verification of site measurements prior to fabrication.
- Testing and submission of relevant reports and certificates.

#### 2. Technical Specifications

##### A. Duct Sections

(A Govt. of Kerala Enterprise)

###### Straight Duct

- Length: 3200 mm
- Circumference: 1700 mm

###### Top Bend

- Length (upper side): 940 mm
- Length (bottom side): 390 mm
- Circumference: 1700 mm

###### Bottom Bend

- Length (upper side): 580 mm
- Length (bottom side): 1180 mm
- Circumference: 1700 mm

**Note:** All dimensions are approximate and must be verified by the contractor at site before quote and starting fabrication.



## **B. Material Specifications**

- **Mild Steel plates (for ducts & flanges):** IS 2062 Grade E250
- **Thickness:**
  - Ducts – minimum 6 mm
  - Bends – minimum 8 mm
- **Flange plate thickness:** Minimum 10 mm
- **Gasket:** High-temperature graphite/CAF, rated up to 600°C
- **Reinforcement:** MS flats/angles as required
- **Plummer block:** As required for proper alignment and support

## **C. Coatings**

- **Base coat:** High-temperature resistant primer
- **Finish coat:** HR Aluminium paint – two coats (minimum temperature resistance: 600°C)

## **D. Dynamic Balancing of ID Fan Impeller**

- To be carried out as per **ISO 1940/1 – G 6.3** or better.
- In-situ balancing to be done after installation and test run (if required).
- Submission of balancing report is mandatory.

## **E. Additional Requirements / Conditions**

- Gaskets must be provided between all flange joints.
- Flange holes (MDC and ID fan side) must match the existing hole pattern. Flanges shall be distortion-free with proper seating and alignment.
- Provide appropriate supports from ground (floor) for ducts using C-channels or I-sections.
- All fabrication shall follow proper engineering practices.
- Bends must maintain proper curvature for smooth airflow; sharp internal edges must be removed.
- Welds shall be uniform and crack-free. Dye-penetrant (DP) testing will be carried out by contractor if required.

## **3. General Terms and Conditions**

- Rate quoted must include fabrication, erection, materials, labour and transportation.
- Contractor must verify all site dimensions before quoting and before fabrication.
- All works must comply with industrial fabrication and safety standards (work at height, hot work permits etc.).



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- Contractor shall provide a competent supervisor for overseeing the works.
- Work must be completed within the agreed timeline.
- Any damage to equipment during execution shall be the contractor's responsibility.
- Contractor shall arrange all lifting tools, scaffolding, consumables, manpower, etc.
- Final coat of paint shall be applied only after installation.
- Site cleaning and restoration must be done after completion of work.
- Submission of relevant documents—balancing reports, material test certificates, painting certificates (if any), and completion note—is mandatory.

Interested contractors may visit the site and submit the quotations along with an EMD of Rs:2500/- and the same to be remitted at Kerafed Oil Complex, Karunagapally. The last date of receipt of sealed quotations is **06.12.2025, 4 PM**.

Further details regarding the quotations can be had from the undersigned during office hours.

Yours Faithfully

