Fiji Electricity Authority

Tender Document

Tender No. : MR 66/2018

Fabricate & Install Air Channel for Generator Radiator
at Labasa Power Station

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January 29, 2018

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1.0 Table of Content

2.0 Specification

2.1 General Information

The function of the air channel is to channel the hot air from the generator's radiator to the outside the power station and seal the heat from returning back to the station. There are 5 generators that require channels;

- G2 – CAT3516
- G3 – CAT3516
- G4 – CAT3516
- G5 – Cummins QSK60
- G11 – Cummins QSK60

The channel must be large enough to encompass the radiator but smaller than the wall opening. Recommend open be parallel dimension to the radiator extruding out and that all the wall opening between channel and wall be seal off.

2.2 Important Environment Condition

- Temperature: >60°C (Expelled heat from the radiator unit)
- Humidity: <70%

2.3 Dimensions

2.3.1 CAT 3516 Air Channel

The CAT radiator are with a dimension of;

- Height: ~2300mm
- Width: ~2300mm
- Distance between the radiator and wall: ~2800mm (Length of the Air Channel)

Wall Opening Dimension;

- Height: ~3400mm
- Width: ~3000mm

2.3.2 Cummins QSK60 Air Channel

The CAT radiator are with a dimension of;

- Height = 3100mm
- Width = 2250mm
- Distance between the radiator and wall = ~1000mm (Length of the Air Channel)

Wall Opening Dimension;

- Height = 3400mm
- Width = 3000mm

3.0 Scope of Works

1. Fabricate and install air channel with steel wall, fame & supports linking the generator radiator and extruding to the exterior wall. Include supply for material & labour.
2. Paint inner wall of the channel with high temperature paint that capable of withstanding temperatures around 60°C.
3. Bolt the structure to wall and to the radiator sealing the air and containing an venting the heat outwards.
4. Add insulation with covers on the outer wall of the air channel if need be.
5. Fabricate enclosure for sealing the space between the wall and air channel tunnel. Note, the CAT exhaust pipes are installed through the same wall opening as shown in the following figures, enclose appropriately.

4.0 Site Photos

4.1 CAT 3516 Sets

Figure 1 CAT Set outside view

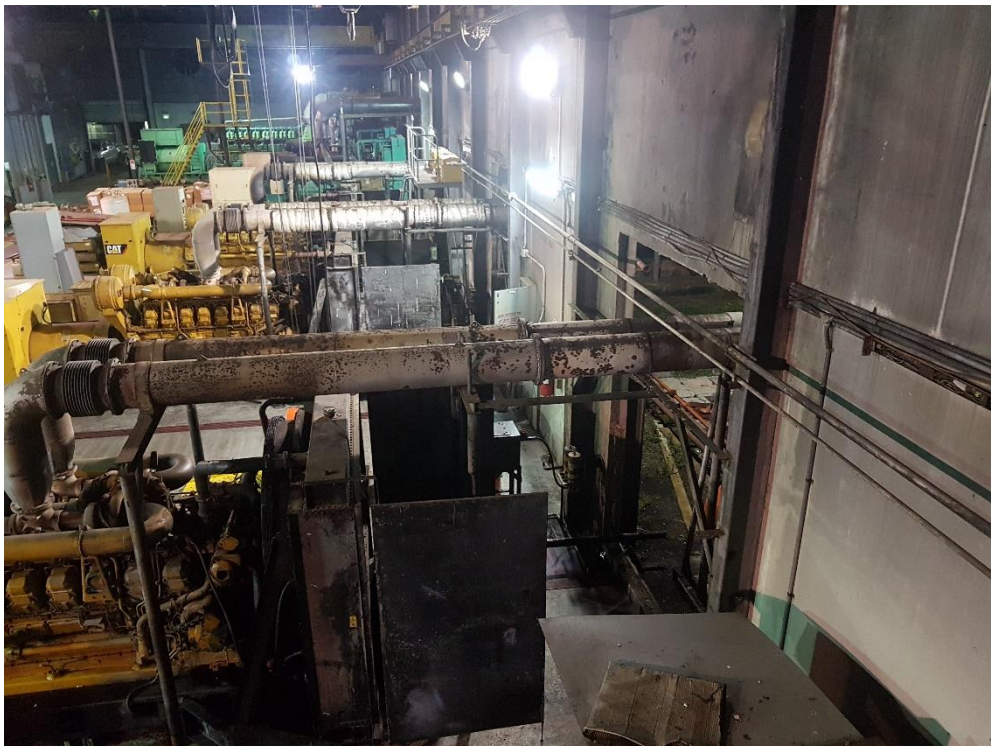

Figure 2 CAT sets inside view

Cummins QSK60 Sets

Figure 4 Cummins QSK60 set outside view

Figure 3 Cummins QSK60 inside view

5.0 Price Schedule

Fabricate & Install Air Channel for Generator Radiator at Labasa Power Station

Item	Item Description	Quantity	Unit Price	Total Price Currency: _____
1	Fabricate & Install steel air channel for the Generator's radiator unit. This include support, frame and vent wall			
2	Painting and finishing for the channel wall for carting high temperatures (Surface protection from the expelled heat)			
3	Insulation of the venting wall if required			
4	Fabricate closures for sealing the space between the wall and air channel tunnel			
5	Accommodation & Mobilization to Site			
6	Transportation of Materials to Site			
	TOTAL (VEP)			
	VAT 9%			
	TOTAL (VIP)			

Notes:

1. Ensure site HSE rules are followed at all times.
2. Contractor to verify all drawing measurements onsite
3. All Sub-contractors to be used for any part of the works are to be declared.
4. Contractor shall provide all materials, tools equipment and labour necessary to perform works.
5. A detailed work plan to be provided with expected date for the works.
6. FEA financial terms are applicable for these works. Any advance payment will require a bank guarantee.
7. Site Visit mandatory

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday 7th March, 2018**

To register your interest and tender a response, view 'Current Tenders' at: **https://www.tenderlink.com/fea**

For further information contact The Secretary Tender Committee, by e-mail **TDelairewa@fea.com.fj**

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm, on Wednesday 7th March, 2018 -** Addressed as

Tender – MR 66/2018 Fabrication & Installation of Air Channel for Generator Radiator at FEA Labasa Power Station

The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and hard copy is dispatched to courier before the closing date and time. Please note courier submission date should be forwarded to FEA with your bid.**

Tenders received after **4:00pm** on the closing date of **Wednesday 7th March, 2018**

- will not be considered.
- Lowest bid will not necessarily be accepted as successful bid
- **It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission including any Duties/Taxes. Hard copies of the Tender submission via Post Box will not be considered.**