



**Energy Management Centre- Kerala
Sreekrishna Nagar, Sreekariyam P.O
Thiruvananthapuram- 695017**

Reply to Queries

- Tender Ref No: EMC/633/2022-ETB-5/T01
- Etender Id: 2023_EMCK_562050_1
- Work Description: Preparation and Submission of Detailed Project Report (DPR) / Techno Economic Feasibility Report (TEFR) of Edathanalkuthu (Ernakulam), Madatharuvi (Pathanamthitta), Palakkayam SHP (Palakkad) with detailed analysis, drawings etc to EMC Kerala.

Sl No	Query	EMC Reply
1	Details of Projects for which Previous PFR/FR is available? If so, please share the details	Feasibility reports which are available with EMC will be shared with the successful bidder.
2	If PFRs/FRs are not available, please provide salient details of projects, previous survey reports and rain gauge/river gauge details and hydrology details.	<p>Salient features of the projects that EMC possess have been attached in Annexure A. Rest of the survey reports, rain gauge data & hydrology are not available with EMC to be shared now.</p> <p>The successful bidder has to expedite the details for the TEFR/DPR liaising with required Government Departments. EMC will provide official letters and necessary charges and fees for applications, if any, to the successful bidder against submitted actuals.</p> <p><u>Please Note:</u></p> <p><i>The attached Salient Features of the project sites is of data referred which is old and redundant and can only be useful for reference purpose only. For more details please contact EMC.</i></p>

3	Whether any of the projects entail the use of forest land, and if so, which ones. Can EMC arrange for and receive the appropriate approval from the forest department?	The successful bidder shall liaison with Forest Department for conducting surveys for the preparation of the TEFR/DPR. EMC on request of the successful bidder will provide required official letters and will provide necessary charges and fees for applications, if any against submitted actuals.
---	--	--

Sd/-
Director

ANNEXURE A**MADATHARUVI MHP (1 MW)**

River basin	Madatharuvi valiathodu, Pamba river basin
District	Pathanamthitta
Access to site	About 6km from Ranny towards North
Latitude / Longitude (near)	9°25'00" N / 76°48'31" E
Nearest KSEB investigation field office	NA
Main project components viz.	
a. Dam/ weir with dimensions (approx)	Concrete gravity ungated type weir 41.65m long and 6m height.
b. Water conductor system with dimensions (approx)	Tail race channel 10m length (approx), 2.9m height, 1.1m bed width, bed slope 1:1500, 1.2m dia. Penstock 1 no. –121.68m length.
c. Power house with No. of machines and capacity	1MW
d. Annual average generation potential	2.15Mu
e. Evacuation details	Power generated will be transmitted through 11 KV line for 6km length
f. Design Head	37.86m
Land particulars(excluding right of way for transmission line)	
a. Extent of Forest land required (approx)	Nil
b. Extent of Private land required (approx)	1.76Ha

EDATHANALKUTHU MHP (0.5 MW)

River basin	Muvattupuzha
District	Ernakulam
Access to site	30 km to Mullaringkadu from Thodupuzha, then 3 km jeep road to PH site
Latitude / Longitude (near)	9°59.5' N, 76°49.5' E
Nearest KSEB investigation field office	NA
Main project components viz.	
a. Dam/ weir with dimensions (approx)	Gravity Weir with un-gated overflow portion 30m length
b. Water conductor system with dimensions (approx)	Main penstock line 0.40m dia & 850 m long bifurcating at PH end to feed 2 turbines (2 Nos. 30cm dia)
c. Power house with No. of machines and capacity	Power house 250 kW
d. Annual average generation potential	2.733 Mu
e. Evacuation details	Power Generated will be transmitted through 11kV line for 2 km length. Approximately 2km of L T line (tentative).
f. Design Head	377 m

PALAKAYAM SHP (2 MW)

River basin	Kallarpuzha
District	Palakkad, Palakkayam Village
Access to site Latitude / Longitude (near)	Near to Palakkayam towards Kaniyrapuzha dam Weir: 10°58'09"N 76°32'58"E Power House: 10°58'19"N 76°32'50"E
Nearest KSEB investigation field office	NA
Main project components viz.	
a. Dam/ weir with dimensions (approx)	To be expedited
b. Water conductor system with dimensions (approx)	To be expedited
e. Evacuation details	To be expedited
f. Design Head	20-22 m
Land particulars(excluding right of way for transmission line)	
a. Extent of Forest land required (approx)	Nil
b. Extent of Private land required (approx)	To be expedited