

**THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF ENERGY AND MINERALS**



INVITATION FOR BID (IFB)

**CONSTRUCTION OF RUFJI HYDROPOWER PROJECT AT
STIEGLER'S GORGE ALONG THE RUFJI RIVER UNDER
DESIGN AND BUILD CONTRACT INCLUDING
COMMISSIONING**

TENDER No. ME/008/2017-2018/HQ/W/3

1. The Government of the United Republic of Tanzania has allocated funds towards the cost for the **Construction of Rufji Hydropower Project at Stiegler's Gorge along the Rufji River** through Design and Build Procurement method.

Bidding is being conducted through International Competitive Bidding (ICB) as specified in the Public Procurement (Amendment) Act, 2016 and the Public Procurement (Goods, Works, Non-Consultants Services and Disposal of Public Assets by Tender) Regulations, 2013.

The project site is located in the Coast and Morogoro Regions at S7° 48' Latitude, E 37° 51' Longitude. Site elevation is about 180 m.a.s.l located in Selous Game Reserve. Site vegetation is generally savannah type with scattered trees and bushes denser in the vicinity of river.

2. The United Republic of Tanzania, through the Ministry of Energy and Minerals, intends to construct Rufiji Hydropower Project at an installed capacity of at-least 2,100MW with a minimum guaranteed annual firm energy of 5,920 GWh.

The project comprises construction of a main dam and appurtenant structures with the expected total reservoir storage capacity of 34,000 Million m³. The dam height is about 134m, expected reservoir length is estimated to be 100 Km covering an area of about 1,350 sq. Km. In addition to the main dam, there will be Saddle Dams and Cofferdams. The project will also include construction of Power House(s) to generate the required capacity of 2,100 MW and a 400kV Switchyard.

3. The estimated quantities for the major items for an Arch Dam solution (Main Dam) and other elements of Works are presented in the Table below. Alternative Proposals/Designs that may demonstrate Value Engineering are allowed.

S/ N	Description	Unit	Quantity
A	Civil Works		
1	Concrete	m ³	750,000
2	Rockfill with asphalt face	m ³	500,000
3	Earth embankment	m ³	3,700,000
4	Reinforcement	tonne	15,000
5	Spillway discharge capacity	m ³ /s	14,000
6	Cofferdam	No.	2
7	Diversion Tunnels (cross section area 95.4 m ²)	m	2 x 610
8	Low level Outlets (1000 m ³ /s)	m	2 x 440
9	Internal Access roads	Km	10

10	Residential Roads,	Km	5
11	Permanent Housing	No.	350
12	Secondary Housing	No.	3000
B	Electromechanical Works		
1	Hydraulic Steelworks including gates and cranes		
2	Vertical Francis Turbine (Range 200 - 300MW each)	MW	2100
3	Power Generators(Range 200 - 300MW each)	MW	2100
4	Power Transformers (Range 235 - 353 MVA each)	MVA	2470
5	Electrical Switch gears		
6	Control and Protection System	Set	1
7	Auxiliary power supply		
8	DC Systems		
9	Fire detection system	Set	1
10	Cooling and sewage system		

4. Interested eligible bidders (private or public) may obtain further information and the bidding documents seven (7) days after the date of advertisement, at the office of **The Secretary, Tender Board, Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474 Dar es Salaam, Room No. 10, at the 6th Floor during office hours: 08:00am to 03:30pm on Mondays to Fridays inclusive, except on public holidays.** Public or semi-public owned Companies in the **United Republic of Tanzania** may participate only if they can establish that they are legally, autonomous and operate under commercial law.

- 5 Bidders should note that, to qualify for the Contract award, they are required to have a good proven track record of performance in the hydropower construction industry. Bidders should be able to demonstrate that;
- a) They have experience as EPC Contractors or as Lead Member in a Joint Venture/Consortium in design, manufacture, supply, erect, test and commission of Hydro Power Projects.
 - b) They have minimum average annual construction turnover of US\$ 500 Million calculated as certified payments received for contracts in progress and/or completed within last five (5) years.
 - c) Bidders are required to provide full and detailed particulars of their financial capability to perform such Works and demonstrate that they have suitable qualified and experienced key personnel with appropriate qualifications. Bidders should also note that, the Works must be completed within a period of **36 months with maximum mobilization period of 3 months**. In addition, they are required to provide detailed particulars of all machinery, plants and equipment that they propose to make available for the Works.
6. A complete set of Bidding Documents (and study reports) may be purchased by interested Bidders at the office of The Secretary (given under **paragraph 4 above**) on submission of a written application enclosing a non refundable fee of Tanzania Shillings 200,000 (Tanzania Shillings Two Hundred Thousand Only) or its equivalent in a freely convertible currency, payable by Banker's Draft, Banker's Cheque or Cash to **The Secretary, Tender Board, Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474 Dar Es Salaam, TANZANIA.**
- 7 All Tenders must be accompanied by a Bid Security in a form of Bank Guarantee in the amount of TShs. 200,000,000/- (Tanzania Shillings Two Hundred Million

- Only) or its equivalent in a freely convertible currency in case of foreign Tenderers. The Bid Security shall be clearly addressed to **The Secretary, Tender Board, Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474 Dar es Salaam, TANZANIA** and shall be valid for **120 days** from the deadline of submission of the bids.
8. All Bids in One Original and two copies enclosed in plain sealed envelopes shall be valid for a period of **120 days** after Bid opening and must be accompanied by a “Bid Security” in original and in a form of Bank Guarantee. The outer cover/envelope containing the bid in **one original and two copies** clearly marked **“CONSTRUCTION OF RUFJI HYDROPOWER PROJECT ALONG THE RUFJI RIVER UNDER DESIGN AND BUILD CONTRACT INCLUDING COMMISSIONING (TENDER No. ME/008/2017-2018/HQ/W/3)”** must be clearly addressed to: **The Secretary, Tender Board, Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474 Dar Es Salaam, TANZANIA**. All bids must either be delivered by hand or be sent by registered post so as to reach him on or before the deadline for submission of bids.
 9. The deadline for submission of Bids is at 10:00 Hours local time on **16th October 2017**. Bids will be opened immediately after the deadline for submission in public in the Ministry Conference Room, 5th Floor, **Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474** Dar Es Salaam, TANZANIA in the presence of bidders’ representatives who will choose to attend.
 10. Bids not received, not opened and not read out in public at the bid opening ceremony and telegraphic, telex, telefax, bids or portion of any Bids shall not be considered for evaluation irrespective of circumstances.

11. A site visit will be conducted on **14th and 15th September, 2017** starting at 09:00 Hours local time at the project site – RUBADA Camp. A Pre-bid meeting will take place on 18th September 2017 in the Ministry Conference Room, 5th Floor, Ministry of Energy and Minerals, 5 Samora Machel Avenue, 11474 Dar Es Salaam, TANZANIA at 10:00 am.

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**The Secretary,
Ministry of Energy and Minerals Tender Board,
5 Samora Machel Avenue,
11474 Dar es Salaam
TANZANIA**