



KENYA ELECTRICITY GENERATING COMPANY PLC.

KGN-HYD-055-2018.

TENDER FOR DESIGN, MANUFACTURE, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF NEW FRANCIS TURBINE RUNNERS FOR KAMBURU POWER STATION.

11th January, 2019.

CLARIFICATION NO 1.

In Accordance with the Tender for “Design, Manufacture, Delivery, Installation, Test and Commissioning of New Francis Turbine Runners for Kamburu Power Station”. KenGen hereby issues **Clarification No. 1**

NO.	CLARIFICATION SOUGHT	CLARIFICATION
1	Section IV: Special Conditions of Contract: 3.12 Terms of Payment. Advance payment shall not be applicable. Payment shall be made within 30 days from the date of receipt of certified invoices, delivery notes; goods receipt notes...etc. Q: Please confirm this project do not have any advance payment? Q: The payment will be released by L/C or some other ways? The document has not mentioned about that.	Terms of payment have been revised as indicated below this table.
2	Section VIII Price Schedule: Applicable Taxes: Q: Could you specify the Local Taxes and Rates, so all tenderer can make the quotation on the same basis.	It's the responsibility of the bidder to confirm the applicable taxes and provide for them. Clause 3.21.3
3	For the commissioning on site, please specify the requirement of the units working condition and operation parameter to be satisfied and accepted by KenGen.	Guaranteed turbine output at various net heads are: - i. 68m - 26.100MW ii. 74m - 29.85MW iii. 78m - 32.3MW iv. 72m - 28.6MW
4	To conduct the CFD analysis, the contractor will need the data of the entire flow passage, please provide the following drawing: 1) Single line diagram of spiral casing; 2) Layout drawing of fixed guide vanes and movable guide vanes;	Drawings KAM.M.00189, KAM.M.00171, KAM.M.00216 uploaded with the tender. Additional drawings will be provided.

	3) Guide vane profile drawing; 4) Single line diagram of draft tube.	
5	Please provide the setting elevation and the static suction of the existing turbine	As indicated in drawing NO. KAM.M.00214, KAM.M.00170, Tail Water level with zero discharge 923m Kenya Datum
6	The provided drawings are partially non-identifiable; please confirm the runner can be demounted from the bottom of the turbine.	Confirmed. Runner can be demounted from the bottom
7	In the condition that the rated head is 72m and the flow rate 43.5m ³ /s, the calculated rated output shall be lower than 31.4MW. Please confirm the data.	Use the following information: - Design net head for guaranteed mean efficiency – 72m for the flow rate.
8	For the onsite installation, test and commissioning purpose, please confirm that only three persons, which are one project manager, one installation supervisor and one commissioning engineer shall be provided by the contractor.	Site staffing shall be as determined by the contractor to fit their work program. The client have only specified qualification requirement for key staff.
9	Quoted: Appendix to Instructions to Tenderers: Executive order No.2 As per executive order no.2. Effective 1st July 2018...etc Q: Does this clause mean that the tenderer should register in Kenya before go for tender? Otherwise it will be disqualified? Q: Pin Number? If it is an international corporation outside Kenya, how to provide this information?	This Shall only apply to KenGen Registered firms
10	Quoted: 2.11 Tender currencies. Prices shall be quoted in Kenya Shillings unless otherwise specified in the appendix to Instructions to Tenderers. Quoted: 2.23 Conversion to Single Currency. Where other currencies are used, the procuring entity will convert these currencies to Kenya Shillings...etc. Quoted: SCC 3.12 Terms of payment. Payment shall be made within 30days...etc Q: Could the tenderer quote in US Dollars? Q: The payment will be US Dollars by L/C? Or local shillings? It's not clear.	Tenders shall be priced in freely Convertible currency.
11	Quoted: 1.3. Scope of Project: Installation, site acceptance test and commissioning. Quoted: 1.10 Project: Work Program. KenGen shall second free of charge, six skilled maintenance staff comprising of craftsmen, technicians and engineers during the installation work. The mix shall be determined jointly between the...etc. Q: During the installation, please clarify the responsibility of the Contractor is only for supervision as written in documents that include installation supervisor Mechanical & Electrical, commissioning engineer, but does not include the site workers or other engineers? Otherwise, the contractor has to dispatch their whole installation team?	All works and equipment that are necessary for the execution of the project at site shall be the responsibility of the tenderer. The number of staff indicated will be seconded to the tenderer.

12	Dead line for submission. 2.18.1 No later than 21st January 2019. Q: We kindly request for another 10days extension to 31st January 2019, please consider.	Revised Tender closing date: 18th February 2019 at 10.00 a.m.
13	We kindly ask for an extension of 6 weeks (7th of march 2019) for the tender preparation. This period is necessary to create a state of the art runner design which fulfill the technical behavior.	
14	The drawing KAM.M.00189 – Spiral Casing VI is not available at the website. Can you please send a copy?	Additional drawings will be uploaded
15	At 72m water head, 31.4MW is turbine rated output or generator output? What is generator efficiency?	See 3 and 7 above. Generator is rated 37MVA at 0.85 lagging power factor. Generator efficiency (at commissioning) 97.55% at generator output of 32.4MW
16	Please help provide runner crack photo and cavitation photo and explanations about the problem.	These will be availed during the site visit
17	Besides cavitation and crack problem, if there is another problems? The more details we have the better, it will help in the design.	These are the major problems that require resolving for the entire turbine operating range.
18	What is the unit output corresponding to guide vane opening degrees? (e.g. 80% guide vane opening , what is the output of the generator, etc.).	These will be provided during the site visit.

1. Advance Payment

An advance payment, if requested for by the Contractor, shall be made under the Contract, if approved by the Employer but secured by an advance payment guarantee. The recovery of the advance payment will be in accordance with the Conditions of Contract. The Advance Payment Guarantee shall be denominated in the proportion and currencies named in the form of foreign currency requirements. For each currency, a separate guarantee shall be issued. The guarantee shall be issued by a bank located in the Republic of Kenya, or a foreign bank through a correspondent bank located in the Republic of Kenya, in either case subject to the approval of the Employer. The advance payments shall not exceed 10% of the contract value.

2. Terms of Payment

The Terms of Payment shall be as set out below:-

Payment shall be made through an unconfirmed Letter of Credit. The Contractor shall be required to meet the Letter of Credit charges in the Contractor's country where applicable. Any extensions/ amendment charges that may result due to the Contractor's delays or mistakes shall be to the Contractor's account. Local suppliers shall be paid through Electronic Funds Transfer. Payment terms except for the advance shall be 60 days from the date of invoice. Should the Contractor require a confirmed letter of credit, then all confirmation charges both in and outside Kenya shall be to the Contractor's account.

(a) 45% of Contract Price on delivery to site of all material/ equipment and completion of Factory tests and training. This shall be less any advance payment where applicable.

(b) 17.5% of Contract Price upon successful erection and commissioning for each unit acceptable to the client for which a Taking Over Certificate has been issued in relation to the works, delivery of spares, site training and issue of preliminary equipment maintenance documentation.

(c) 10% of Contract Price on successful completion of the Defects Liability period for each unit and submission of all Documentation and as Built drawings.

The employer shall withhold any taxes from the contractor's payments as provided for in the Kenyan Tax law and issue the suppliers/contractors with withholding tax certificates.

Applications for Payment may be made by the Contractor to the Engineer as set out below:-

(i) The application in respect of the shipment shall identify the Equipment shipped, state the amount claimed and be accompanied by such documentation as the Engineer may require including:-

- Original Invoice identifying the amount claimed against the appropriated subdivisions of the Schedule of Prices.
- Shipping Specification and Packing List.
- Original Bill of Lading or Air Waybill.
- Factory inspection Certificate.
- Clean report of finding.

(ii) The application in respect of work carried on site shall identify the work done, state the amount claimed and be accompanied by such documentation as the Engineer may require including:-

- Original Invoice identifying the amount claimed against the appropriate subdivisions of the Schedule of Prices.
- Statement of Work showing the work done.

(iii) Any other application for payment certificates shall identify the requirement for payment, state the amount claimed and be accompanied by such documentation including:

- Original Invoice identifying the amount claimed against the appropriate subdivisions of the Schedule of Prices.
- Supporting Documents such as copy of Certificates where applicable.

ACKNOWLEDGEMENT OF CLARIFICATION NO 1.

We, the undersigned hereby certify that the Clarification is an integral part of the document and has been incorporated in the tender proposal.

Signed.....

Tenderer.....

Date.....