
PNG GRID STABILITY PROGRAM

Invitation for Bids

Issued Date: 21st June 2021

Title: Motukea 66/11kV Substation

Deadline for Submission of Bids: 30th August 2021 at 10:00 Hours (PNG Local Time)

1. The Kumul Consolidated Holdings of Papua New Guinea and PNG Power Ltd of Papua New Guinea have made available funding toward the cost of the PNG Grid Stability Program and it intends to apply part of the proceeds of this funding to payments under the contract for the scope described below under item 2.
2. PNG Power Limited ("the Employer") invites sealed bids from eligible bidders from potential partners for:

The Engineering, Procurement, Construction (EPC), Testing and Commissioning of Motukea 66/11kV Substation and 66kV loop in loop out transmission line and distribution expansion.

Name of Good and Related Services
<p>The Project comprising execution of all contract works on an EPC basis, complete in every respect and at turnkey basis for the following:</p> <ul style="list-style-type: none"> • 66/11kV Motukea Substation comprising two three-phase 25/30 MVA, 66/11kV ONAN/ONAF transformers, 66kV AIS switchgear, 11kV indoor switchgear, civil and structural components, and all other equipment necessary to provide a complete substation. • 66kV loop-in-loopout overhead transmission from existing pole to Motukea 66/11kV substation, approximate route length of 200 m. <p>The Scope of Works includes the following services and deliveries: Design, manufacture, testing, supply, insurance, packing for export, shipment, delivery to site, unloading, provision of access roads, civil works and erection and installation of equipment, testing on completion, commissioning, setting to work and documentation. The Works include:</p> <ul style="list-style-type: none"> • Supply and install gantries and bus conductors for the High Voltage and Medium Voltage equipment complete with the associated circuit breakers, disconnect switches & earthing switches, surge arresters, capacitor voltage transformers and current transformers, and control and protection equipment; • Supply and install Medium Voltage equipment along with circuit breakers, earthing switches, surge arresters, voltage transformers and current transformers, and control and protection equipment; • Supply and install power transformers complete with the associated OLTC, RTCC and accessories, • Supply and install an earthing and lightning protection system covering the switchyard area and the buildings and structures, •

- - Supply of transmission poles, foundations, Mango ACSR conductor, OPGW, and all necessary conductor & OPGW accessories,
 - All civil works including construction of the control and switchgear building, diesel generator building, guardhouse & security platforms, roads, storm-water and sewage system, cable trenches, equipment foundations,
 - Control and Protection Equipment for High and Medium Voltage Equipment
 - Supply and install telecommunication and protection signaling equipment, communication system and security surveillance system.
 - Supply and install required equipment and components for a complete Substation Control and Monitoring System,
- All necessary fire protection system, HVAC, AC & DC supply, cabling/wiring/lighting and auxiliary equipment to complete the works

3. International competitive bidding will be conducted in accordance with International Single-Stage, Two-Envelope Bidding Procedure for Procurement of Plant and is open to all Bidders in PNG and abroad. For this procedure, bidders will submit simultaneously two sealed envelopes, one containing the technical proposal and the other the price proposal. Initially, only the Technical Proposals are opened at the date and time advised in the Bidding Document. The Price Proposals remain sealed and are held in custody by the Employer. The Technical Proposals are evaluated by the Employer. No amendments or changes to the Technical Proposals are permitted. The objective of the exercise is to allow the Employer to evaluate the Technical Proposals without reference to price. Bids with Technical Proposals which do not conform to the specified requirements will be rejected as deficient Bids. Price Proposals of technically compliant Bids will be opened after completion of the technical evaluation in public at a date and time advised by the Employer. The Price Proposals are evaluated and the Contract is awarded to the technically compliant Bidder whose Bid has been determined to be the lowest evaluated substantially responsive Bid.

4. Only eligible bidders with the following key qualifications should participate in the bidding:

- Minimum average annual turnover of US\$ 7,500,000 calculated as total certified payments received for contracts in progress or completed, within the last three (3) years.
- The Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:
 - a) the following cash-flow requirement, US\$ 3,000,000 for the first six (6) months of the contract and
 - b) the overall cash flow requirements for this contract and its current works commitment.
- Participation as contractor, management contractor, or subcontractor, in at least 3 turnkey contracts within the last five (5) years, each with a value of at least US\$ 10,000,000 that have been successfully or are substantially completed and that are similar to the proposed plant and services.
- For joint venture entities, the joint venture shall demonstrate previous experience in at least three (3) turnkey contracts utilizing AIS Equipment at voltages at 66 kV or above, each contract being of value at least US\$ 10 million which have been successfully or substantially completed. At least one contract should have been completed outside of the contractors' home country (requirement of foreign country experience is not applicable for Papua New Guinean firms).
- All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than fifty percent (50%) of the Bidder's or any Joint Venture Partner net worth.
- The bidder must demonstrate that it has the personnel for the following key positions for this project: Resident project manager, Resident construction/site managers, Resident substation engineers, Resident civil engineers, Resident transmission line

engineers, Commissioning engineer/s, Quality control engineer/s, and Substation design engineers.

5. International Competitive Bidding (ICB) will be conducted in accordance with International Procurement of Works (Without Prequalification) procedure.
6. Interested eligible Bidders may obtain further information from PNG Power Ltd and inspect the Bidding Document at the address given below, from 09:00 to 16:00 hours (local Port Moresby time), Monday to Friday.
7. The bidding documents will be available on 5th July 2021.
8. The Bidding Document in the English language may be purchased by interested Bidders on the submission of a written application to the address below and upon payment of a non-refundable fee of PGK 600 (Six Hundred PNG Kina) or USD 300 (US \$ Three Hundred) by cash, telegraphic transfer, bank deposit, or cheque in favor of PNG Power Limited Papua New Guinea Bank Account details provided herein –

Account Name:	PNG Power Ltd
Bank:	Bank South Pacific (BSP)
Branch:	Boroko Banking Centre
Account No:	1000489317
SWIFT Code:	BOSPPGP

The Bidding Documents can also be procured through courier delivery by requesting through a written application, with proof of bank transfer in favor of PNG Power Limited for the non-refundable amount of PGK 600 (Six Hundred PNG Kina) or USD 300 (US \$ Three Hundred) (for overseas delivery) in addition to PGK 300 (Three Hundred PNG Kina) or USD 150 (US \$ One Hundred and Fifty) non-refundable fee. No liability will be accepted for loss or delay in delivery. Only one set of CDs of the Bid Documents will be delivered, no hardcopies shall be provided.

Bid submissions address to:

Attention: Project Manager,
PNG Power National Office,
PO Box 1105

Street Address: Corner Wards Rd/Cordia St, Boroko 111, National Capital District
City: Port Moresby
Country: Papua New Guinea

Electronic submissions to be made through PNG Power's e-tendering portal @
<https://portal.tenderlink.com/pngpower>

All technical queries to:

Project Manager Mr. Francis Uratun
Phone: +675 3 24 3227
Fax: +675 3 25 0185

E-mail: furatun@pngpower.com.pg
Website: www.pngpower.com.pg

9. All Bids must be delivered at the place and time indicated above together with a Bid Security as specified in the Bidding Documents, ITB 21.1. Late bids shall be rejected.

10. PPL will not be responsible for any costs or expenses incurred by Bidders in connection with the preparation or delivery of Bids.

Authorized by:



Flagon Bekker
Managing Director
PNG Power Limited