
PNG GRID STABILITY PROGRAM

Invitation for Bids

Tender No.:: 39/2021

Date: 02nd December 2021

Title: Dirio/Motukea Substation Construction and 66kV Transmission Interconnection Upgrade

Revised Deadline for Submission of Bids: 11th February 2022 at 1630 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 (PGSP) 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 development partners’ member countries for:

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

Name of Good and Related Services
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The Project comprising execution of all contract works on an EPC basis, complete in every respect and at turnkey basis for the following:

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| <ul style="list-style-type: none">• 66/11kV Motukea Substation comprising two three-phase 20/25 MVA, 66/11kV ONAN/ONAF transformers, 66kV AIS switchgear, 11kV indoor switchgear, civil and structural components, all other equipment necessary to provide a complete substation, and 30km of Distribution Expansion• 66kV loop in loop out 1.2km overhead transmission to the plan 66/11kV Motukea substation.• 66/11kV Dirio Switchyard/Substation comprising one phase 20 MVA, 66/11kV ONAN/ONAF transformer, 66kV AIS switchgear, 11kV indoor switchgear, civil and structural components, all other equipment necessary to provide a complete substation, and 17km of Distribution Expansion• Upgrade of Dirio to Kanudi 66kV transmission line utilizing bigger size AAC conductor |
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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:

- 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, AAAC 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 Procurement of Plant and is open to all Bidders from eligible source countries. For this procedure, bidders will submit the sealed envelopes, containing the technical proposal and the price proposal. The Proposals will be opened at the date and time advised above. The Technical Proposals are evaluated by the Employer. No amendments or changes to the Technical Proposals are permitted. Bids with Technical Proposals which do not conform to the specified requirements will be rejected as deficient Bids. 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:
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 at the address given below, from 09:00 to 16:00 hours (local Port Moresby time), Monday to Friday.

Forward all Technical queries to:

Project Manager- Mr. Francis Uratun
 Phone: +675 3 24 3227
 E-mail: furatun@pngpower.com.pg

Download: TOR from:
 Website: www.pngpower.com.pg or
 Tenderlink: <https://portal.tenderlink.com/pngpower>

Submissions Addressed & Delivered to:
 Tender No. 39/2021 - Dirio/Motukea Substation Construction and 66kV
 Transmission Interconnection Upgrade
 PNG Power Limited
 PO Box 1105, BOROKO,
 NCD, Papua New Guinea
 Street Address:
 Corner Wards Rd/Gordia St, Hohola, National Capital District
 City: Port Moresby, 111
 Country: Papua New Guinea

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

Authorized by:

Obed Batia
Acting CHIEF EXECUTIVE OFFICER
PNG Power Limited