Section 4 - Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

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Letter of Bid

Date: ICB No.: Invitation for Bid No.:

То:....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to design, manufacture, test, deliver, install, precommission and commission in conformity with the Bidding Document the following Plant and Services:
- (c) The price of our Bid, excluding any discounts offered in item (d) below is the sum of: [amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]
- (d) The discounts offered and the methodology for their application are:
- (e) Our bid shall be valid for a period of 180 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We, including any subcontractors or manufacturers for any part of the contract , have or will have nationalities from eligible countries, in accordance with ITB-4.2;
- (h) We, including any subcontractors or suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3;
- (i) We are not participating, as a Bidder in more than one bid in this bidding process in accordance with ITB 4.3, other than alternative offers submitted in accordance with ITB 13;
- Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by GOS, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (k) We are not a government owned entity / We are a government owned entity but meet the requirements of ITB4.5; *

(I) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **

Name of Recipient	Address	Reason	Amount

- (m) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (n) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (o) We agree to permit GoS or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by GoS.

Name	
In the capacity of	
Signed	
Duly authorized to sign the Bid for and on behalf of	
Date	

* Use one of the two options as appropriate

. .

** If none has been paid or is to be paid, indicate "none"

Price Schedules

PREAMBLE

General

1. The Price Schedules are divided into separate Schedules as follows:

Schedule No. 1: Plant and Materials (including Mandatory Spare Parts) Supplied from Abroad

Schedule No. 2: Plant and Materials (including Mandatory Spare Parts) Supplied from within the Employer's Country

Schedule No. 3: Design Services

Schedule No. 4: Construction, Installation and Other Services

Schedule No. 5: Grand Summary

Schedule No. 6: Recommended Spare Parts

- 2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
- 3. If bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

Pricing

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder.

As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.

5. Bid prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Document.

For each item, bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.

Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.

- 6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
- 7. When requested by the Employer for the purposes of making payments or partial payments, valuing variations or evaluating claims, or for such other purposes as the Employer may reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

Schedules of Rates and Prices

Schedule No. 1 – Plant, Materials, and Mandatory Spare Parts Supplied from Abroad

ltem	Description	Country of	Qty.	Unit Price ¹		Total Price ¹	VAGST Taxes and Duties
		Origin		Foreign Currency	CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7 = 4 x 6	8
<u>1.0</u>	Gasification Unit						
1.1.	Biomass Dryer and Delivery/Conveyor Unit.		1 lot				
1.2.	Gasifier and associated Feedstock Administering Unit		1 lot				
1.3.	Gas Cleaning and Required Heat Exchanger/Cooling Units		1 lot				
1.4	Syngas engine(s)		1 lot				
1.5	Warehouse type building to house gasifier and all equipment and stockpile fuel feedstock		1 lot				
1.6	Vehicle electronic scale connecting to plant control room to weigh incoming wood fuel trucks		1 lot				

<u>2.0</u>	<u>Mechanical,</u> <u>Electrical and</u> <u>Communication</u> <u>Works</u>			
2.1	Syngas reciprocating engine and generator cw all electrical and mechanical systems	1 lot		
2.2	Plant overhead electric/manual crane	1 lot		
2.3	Generator PLC governor control system.	1 lot		
2.4	Generator padmount 1000kva 415v/22kv step up power transformer	1 lot		
2.5	Local supply 415v transformer with distribution panel	1 lot		
2.6	415V indoor padmount switchgear			
2.7	Materials for 22kV transmission line and underground connection into existing 22kv overhead line system	1 lot		
2.8	PLC Control and instrumentation system	1 lot		
2.9	Communications system	1 lot		
2.10	Protective relaying system	1 lot		
2.11	24V DC system	1 lot		
2.12	Powerhouse lighting and general	1 lot		

	power system			
2.13	Ventilation system	1 lot		
2.14	Drainage system	1 lot		
2.15	Spare parts for one year services of generator(s),, gasifier and other equipment,	1 lot		
2.16	0.5ML Water Tank(s) for Potable Water Supply storage, pressure pumps, and Fire Fighting Requirement	1 lot		
2.17	Electrical cables, termination and splices kits, and electrical conduits	1 lot		
2.18	Equipment, software, to interface plant to EPC SCADA system for remote control and monitoring	1 lot		
2.19	Standby generator with automatic transfer switch	1 lot		
TOTAL Colu	mn 7 to be carried forward to 9	Schedule No. 5. Grand	Summary	

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies ² Quantum to be determined by Generator Rated Output

Country of Origin Declaration Form

Item	Description	Country

Item	Description	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax	Total Price
1	2	3	4	5 = 1 x 2	6	7 = 5 + 6
1	All locally produced and supplied materials and equipment for construction of powerhouse, building, roads, drainage, water system and electrical work. This include: building materials, ready mix concrete, cement, asphalt, base course materials, drainage pipes, etc.	1 lot	LS			
ΤΟΤΑ	L Column 5 to be carried forward to Sch					

Schedule No. 2 – Plant, Materials, and Mandatory Spare Parts Supplied from Within the Employer's Country

Name of Bidder

Signature of Bidder

¹ Specify currency in accordance with ITB 19.

Schedule No. 3 - Design Services

			Unit I	Price ¹	Total	Price ¹
ltem	Description	Qty.	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
D1.1	Geotechnical investigation and report of gasification and power station	1 lot	LS			
D1.2	Detailed design of gasification plant and power station including generator, electrical switchgear, power distribution, SCADA integration to EPC SCADA system	1 lot	LS			
D1.3	Detailed Design of the Project civil works including, compound, plant layout, roads, drainage, water system, fuel feed stock storage, fire fighting and all civil and site works.	1 lot	LS			
D1.4	Detailed Engineering Design and Preparation of Construction Drawings for the Powerhouse, Firefighting Requirements and all other necessary works.	1 lot	LS			
D1.5	Detailed Engineering Design and Preparation of Construction Drawings for the Feedstock handling facilities and storage including electronic scale to weigh trucks, drying shed and warehouse shelter	1 lot	LS			
D1.6	Detailed Engineering Design and Preparation of Manufacturing and Construction Drawings for all Mechanical and Electrical works.	1 lot	LS			
D1.7	Preparation of CEMP for construction work	1 lot	LS			

CEMP – Construction Environmental Management Plan

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

			Unit I	Price ¹	Total	Price ¹
Item	Description	Qty.	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
<u>G1</u>	<u>GENERAL</u>					
G1.1	Rebuild and pave access road from main public road to biomass plant; scope includes new base course, and drainage on side and road crossings,	1 lot				
G1.2	Provide Operation & Maintenance Capacity Training and Knowledge Transfer Programme for gasification plant and system; quality testing and control of syntec gas; gas engine, generator and auxiliaries;	1 lot				
G1.3	Provide a 1 year long service contract of the plant for further advanced training and technical support;	1 lot				
G1.4	Provision of operating and maintenance manuals and spare parts manual and all as built drawings	1 lot				
2	GASIFICATION PLANT					
<u>2.1</u>	Mechanical & Electrical Works	1 lot				
2.1.1	Construction of gasification plant cw with fuel weighing, handling and storage facilities, wood drying system, feed into plant, and gas discharge and storage facility and installation and commissioning of equipment	1 lot				
2.1.2	Construction of power station, fuel system and storage, electrical control room, wash facilities, store for parts and tools, transformer yard, and outgoing 22kv feeder to connect to EPC grid					

Schedule No. 4 – Construction, Installation and Other Services

<u>2.2</u>	Civil Works			
2.2.1	Survey, clear, level, grade, and compact 100m x 100m site for gasification and power station and fuel handling facilities and build drainage.	1 lot		
2.2.2	Build 2m high security fence and gates around periphery of the 100m x 100m plant site	1 lot		
2.2.3	Construction of the Powerhouse and all other necessary works to accommodate for the Electrical and Mechanical Installations and also firefighting requirements	1 lot		
2.2.4	Construction of the Feedstock Drying Shed	1 lot		
2.2.5	Build plant site security lights, with all wiring underground	1 lot		
<u>2.3</u>	Gas Engine, Generator, Governor Control, Switchgear and Transformers			
2.3.1	Installation of the gas generator and all auxiliaries and connect to fuel line from gasification plant supply, metering.	1 lot		
2.3.2	Installation of all electrical switchgear and equipment in plant control room	1 lot		
2.3.3	Installation of power transformer and local supply transformer and terminations of 22kV link to EPC Grid	1 lot		
2.3.4	Installation of SCADA integration equipment and telecommunication system to connect plant to National Control Center in Fuluasou Substation	1 lot		
2.3.5	Pre commission testing, Commissioning and Load Testing of Generator. Include protection system, metering, instrumentation, and remote control of generator using CLEAR SCADA system from NCC	1 lot		
TOTAL Col	umns 6 and 7 to be carried forward to Schedule No.	5. Grand Sur	nmary	

NCC – National Control Center

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

Schedule No. 5 - Grand Summary

Schedule	T :41-	Tot	al ¹
No.	Title	Foreign	Local
1	Plant, Materials, and Mandatory Spare Parts Supplied from Abroad		
2	Plant, Materials, and Mandatory Spare Parts Supplied from Within the Employer's Country		
3	Design Services		
4	Construction, Installation and Other Services		
	GRAND TOTAL to be carried forward to Letter of Bid		

Name of Bidder _____

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

Schedule No. 6 - Recommended Spare Parts

			Unit I	Price ¹	Total	Price ¹
			EXW	CIP		
Item	Description	Qty	Local Parts	Imported Parts	Local Currency	Foreign Currency
			Local Currency	Foreign Currency	Portion	Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
L		1		TOTAL		

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

Schedule No. 7 – Schedule of Payments

(Use payment schedule in Appendix 1 for Terms of Payment in Section 9 Contract Form)

Months from Effective Date (months)	Amount ¹	% of Net Tender Price	Cumulative Amount ¹	Cumulative % of Net Tender Price
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
Total Tender Price				

Note:

1. Bidder shall submit separately in graphical formal an 'S Curve' showing monthly estimated contract payments as a function of time.

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

Item	Description	Day to Completion after Commencement Date	Delay Damages ¹ (USD/ Day)
[1]	[2]	[3]	[4]
1	Construction, testing and commissioning of the 750kW Faleolo Gasification Plant	365 Days	

Name of Bidder

Signature of Bidder

¹ All pricing shall be given in United States Dollars (\$USD) or three (3) convertible currencies.

Bid Security

Bank Guarantee

Bank's Name, and Address of Issuing Branch or Office
Beneficiary:
Date:
Bid Security No.:
We have been informed that <i>name of the Bidder</i> (hereinafter called "the Bidder") has

We have been informed that *name of the Bidder*.... (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of *name of contract*..... under Invitation for Bids No...... ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity,
 (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Bidder; or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

.....Bank's seal and authorized signature(s).....

Note: All italicized text is for use in preparing this form and shall be deleted from the final document

Bid-Securing Declaration (NOT APPLICABLE)

Date: [insert date (as day, month and year)] Bid No.: [insert number of bidding process] Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [insert complete name of Employer]

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Borrower for the period of time of *[insert number of months or years]* starting on the date that we receive a notification from the Employer, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Form of Bid; or
- (b) having been notified of the acceptance of our Bid by the *Employer* during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to up of the name of the successful Bidder; or (ii) 28 days after the expiration of our Bid.

Signed: [insert signature of person whose name and capacity are shown] In the capacity of [insert legal capacity of person signing the Bid-Securing Declaration]

Name: [insert complete name of person signing the Bid-Securing Declaration]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on ______ dry of ______, ____ [insert date of signing]

Corporate Seal (where appropriate)

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid.]

Technical Proposal

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Personnel

Equipment

Proposed Subcontractors for Major Items of Plant and Services

Time Schedule

Technical Schedules

Site Organization

(Note: Evaluation of the Bidder's Site Organization will include an assessment of the Bidder's capacity to mobilize key personnel for the Contractor consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employers Requirements))

Method Statement

(Note: Evaluation of the Bidder's proposal will include an assessment of the Bidder's experience with preparing CEMP's. The method statement should include the Contractors proposed form of CEMP).

Mobilization Schedule

Construction Schedule

(Note: Evaluation of the Bidder's Site Organization will include an assessment of the Bidder's capacity to mobilize key personnel for the Contractor consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employers Requirements))

Personnel

Bidders should provide the names of suitably qualified personnel to meet the requirements specified in Section 3 (Evaluation and Qualification Criteria). The data on their experience should be supplied using the Form below for each candidate.

Form PER – 1: Proposed Personnel

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name

*As listed in Section 3 (Evaluation and Qualification Criteria).

Position			
Personnel information	Name	Date of birth	
	Professional qualifications		
Present employment	Name of employer		
	Address of employer		
	Telephone	Contact (manager / personnel officer)	
	Fax	E-mail	
	Job title	Years with present employer	

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	То	Company / Project / Position / Relevant technical and management experience

Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section 3 (Evaluation and Qualification Criteria). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equip	ment		
Equipment Information	Name of manufacturer		Model and power rating
	Capacity		Year of manufacture
Current Status	Current location		
	Details of current commit	ments	
Source	Indicate source of the equ	lipment	
		Rented Leased	Specially manufactured

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner		
	Address of owner		
	Telephone	Contact name and title	
	Fax	Telex	
Agreements	Details of rental / lease / ma	nufacture agreements specific to the project	

Proposed Subcontractors/Manufactures for Major Items of Plant and Services

The following Subcontractors and/or manufacturers are proposed for carrying out the item of the facilities indicated. Bidders are free to propose more than one for each item

Major Items of Plant and Services	Proposed Subcontractors/Manufacturers	Nationality

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date: [insert date (as day, month and year) of Bid Submission]

ICB No.: [insert number of bidding process]

To: [insert complete name of Employer]

WHEREAS

We [*insert complete name of Manufacturer or Manufacturer's authorized agent*], who are official manufacturers or agent authorized by the manufacturer of [*insert type of goods manufactured*], having factories at [insert full address of Manufacturer's factories], do hereby authorize [*insert complete name of Bidder*] to submit a bid the purpose of which is to provide the following goods, manufactured by us [*insert name and or brief description of the goods*], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the General Conditions of Contract, with respect to the goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [*insert title*]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on ______ day of ______, ____ [insert date of signing]

Time Schedule

To be used by Bidder when alternative Time for Completion is invited in ITB 13.2.

(Note: Evaluation of the Bidder's Site Organization will include an assessment of the Bidder's capacity to mobilize key personnel for the Contractor consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employers Requirements))

Personnel

Bidders should provide the names of suitably qualified personnel to meet the requirements specified in Section 3 (Evaluation and Qualification Criteria). The data on their experience should be supplied using the Form below for each candidate.

Form PER – 1: Proposed Personnel

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name

*As listed in Section 3 (Evaluation and Qualification Criteria).

Form PER – 2: Resume of Proposed Personnel

Position				
Personnel information	Name	Date of birth		
	Professional qualifications	1		
Present employment	Name of employer			
	Address of employer			
	Telephone	Contact (manager / personnel officer)		
	Fax	E-mail		
	Job title	Years with present employer		

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	То	Company / Project / Position / Relevant technical and management experience

Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section 3 (Evaluation and Qualification Criteria). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment				
Equipment Information	Name of manufactu	rer		Model and power rating
	Capacity			Year of manufacture
Current Status	Current location			
	Details of current co	ommitments		
Source Indicate source of the equipment				
	Owned	Rented	Leased	Specially manufactured

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements sp	ecific to the project

Proposed Subcontractors/Manufacturers for Major Items of Plant and Services

The following Subcontractors and/or manufacturers are proposed for carrying out the item of the facilities indicated. Bidders are free to propose more than one for each item

Major Items of Plant and Services	Proposed Subcontractors/Manufacturers	Nationality

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date: [insert date (as day, month and year) of Bid Submission]

ICB No.: [insert number of bidding process]

To: [insert complete name of Employer]

WHEREAS

We [*insert complete name of Manufacturer or Manufacturer's authorized agent*], who are official manufacturers or agent authorized by the manufacturer of [*insert type of goods manufactured*], having factories at [insert full address of Manufacturer's factories], do hereby authorize [*insert complete name of Bidder*] to submit a bid the purpose of which is to provide the following goods, manufactured by us [*insert name and or brief description of the goods*], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the General Conditions of Contract, with respect to the goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on ______ day of ______, ____ [insert date of signing]

Time Schedule

To be used by Bidder when alternative Time for Completion is invited in ITB 13.2.

Technical Schedules

Bidders shall demonstrate their understanding of the Employers requirements by providing proposed Plant details in the following schedules:-

One set of schedules shall be completed for each Part of the Facilites.

Guarantees

The continuous power output of the gas engine at the 22kV connection to the EPC distribution system with the generator at 0.8 lagging power factor is guaranteed to be no less than.	kW
The efficiency of the gas engine to guaranteed to be no less than	%
The plant Availability Factor is guaranteed to be no less than	%

Other specified guarantees for individual equipment items shall be provided as required the following schedules.

Governing System Data

The Contractor shall provide the following governing system information and data for each different governor as part of their Tender offer:

(i) Governing System Manufacturer

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

- Drawings showing overall dimensions and general arrangement of equipment.
- Descriptive literature of the governors, including schematic and block diagrams.

(iii)

(iv)

Dimensions and Other Data (If hydraulic operated servomotors are offered)

Governor Operating Oil Pressure	
Nominal	bar
Minimum	bar
Maximum	bar
Rating of actuator (pipe size)	mm
Capacity of governor main oil-pumps, each at deliv	ery I/s
pressure of	bar
Motor rating of governor main oil-pumps, each	kW
Speed	rpm
Capacity of accumulator	litre
Accumulator pressure vessel design Standard	
Overall dimensions of governor hydraulic unit	xx mm
Net weight of complete governing system	kgf
Net weight of sump tank	kgf
Net weight of complete governing system	kgf
Operating Characteristics	
Range of permanent speed droop	%
Range of speed change	%
Opening time adjustment range of spear valves	sec
Closing time adjustment range of spear valves	Sec
Opening time adjustment range of deflector	sec
Closing time adjustment range of deflector	sec

(v) Component manufacturers

Manufacturer and model of electro-proportional valves	
Manufacturer and model of oil pumps	
Manufacturer of hydraulic servo motors	
Manufacturer and model of spear valve/deflector position	
transmitters	
Manufacturer and model of speed monitoring system	

Generator Data

The Contractor shall provide the data listed on the following data sheets for each different generator as part of their tender design:

(i)	Generator Manufacturer	
Name	and address	
Count	ry of manufacture	
(ii)	Drawings and Data to be Submitted	
• • •	Drawings showing overall dimensions and general arrangement of the generator. Drawings and description of bearing lubrication system. Descriptive literature of the generator. Generator Efficiency Curve Generator Capability Curve	
(iii)	Guarantees	%
(iv)	Guaranteed Minimum Average Efficiency	70
	Rated Output (kVA @ 0.8 lagging power factor	kV 50Hz 0.8 rpm rpm
	Outside dimension of stator frame	

Bearings

Maximum diameter Weight for shipment

Type of thrust bearing Type of guide bearing

Estimated hydraulic thrust load

Maximum possible temperature with continuous	
operation of the bearing	
Bearing lubrication type	
Bearing cooling type	
Material of Insulation	
Stator conductors in core	
Stator end windings Stator core plates	
Field windings	
Neutral Grounding	
Grounding transformer ratio	
Grounding transformer rating	kVa
Grounding resistor rating	Ω
Separate Flywheel (If required)	
Diameter	m
Weight	kg
Flywheel effect (GD2)	T/m ²
Operating Characteristics	
Short circuit ratio	
Deviation factor of open circuit wave form	
Inherent voltage regulation	
At 1.0 power factor	%
At 0.9 power factor	%
Direct axis transient reactance, saturated (Xd')	
Direct axis subtransient reactance, unsaturated (Xd")	
Negative sequence reactance (X_2)	
Zero sequence reactance (XQ) Direct axis synchronous (Xd)	
Max voltage rise when shedding continuous rated load	%
at rated power factor under actual service conditions	70
with speed control and voltage control plant in operation	
KVAr capability of generator for rated temperature rise	
Leading power factor	kVAr
Lagging power factor	kVAr
Component Manufacturers	
Manufacturer and model of bearings	
Manufacturer and type of lube oil system	
Manufacturer and model of vibration monitors	
Manufacturer and type of CTs and VTs	
Manufacturer and model of grounding transformer/resistor	

(vii)

(vi)

(v)

Spare Parts Included (List)

Excitation Systems

The Contractor shall provide the data listed on the following data sheets for each different excitation system as part of their tender design:

(i) Excitation System Manufacturer

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

- Drawings and description of excitation system.
- (iii) Dimensions and Other Data

Exciter rated voltage	
Exciter ceiling voltage	
Response ratio	
Class, ratio and rating required for voltage transformer	
for AVR	
Class, ratio and rating required for current transformer	
for AVR	

(iv) Spare Parts Included (List)

415V Switchgear

The Contractor shall provide the data listed on the following data sheets for each different 415kV Switchgear system as part of their tender design:

(i)	415V Switchgear Manufacturer	
Name and	address	
Country of	manufacture	
(ii)	Drawings and Data to be Submitted	
• Dr	awings and description of 415V Switchgear.	
(iii)	Dimensions and Other Data	
	General Maximum rated voltage Frequency Rated normal current Number of phases Number of breaks per phase	kV Hz A
	Interrupting medium Short time withstand current 1 second 3 seconds	rms kA rms kA
	Breaking capacity Symmetrical asymmetrical	rms kA rms kA
	Opening time without current at 100% of rated breaking current Maximum arc duration of any duty cycle Current at which maximum arc duration occurs (critical current)	ms ms ms ms
	Make time Trip coil voltage Close coil voltage Circuit breaker trip Free Rated voltage of spring winding motor for closing	ms 24 V DC 24 V DC Yes/No V
	Current Transformers Type of construction Number of current transformers Ratio (for each CT) Secondary current Rating Accuracy class (for each CT)	A VA

Voltage Transformers Type of construction Number of current transformers Ratio (for each VT) Rating Accuracy class (for each VT)	VA
Weights and Dimensions Overall width Overall height Overall front to rear dimension Space required for withdrawal of moving portion Space if required for access at rear Weight of complete panel comprising fixed and moving portions Weight of circuit breaker complete with all fittings as in service	Mm mm mm mm kg kg

(iv) Spare Parts Included (List)

Station Transformers

The Contractor shall provide the data listed on the following data sheets for each different generator step-up transformer as part of their tender design:

(i)	Transformer Manufacturer	
Name and	d address	
Country o	f manufacture	
(ii)	Drawings and Data to be Submitted	
• D	rawings and description of transformers.	
(iii)	Guarantees	
	No-Load Losses at transformer ratio and rated ONAN kVA	kW
	Load Losses at rated voltage	kW
(iv)	Dimensions and Other Data	
	Electrical Characteristics	
	ONAN Rated continuous current HV windings ONAN Rated power of HV winding	A
	ONAN Rated power of L.V winding	kVA
	Winding connection	Dyn11
	Principal ratio of transformation	
	Tapping range on HV Tapping steps	%
	Number of tap positions	%
	Lightning impulse withstand voltage of HV	kVp
	winding	·
	1 minute power frequency withstand voltage of	kV rms
	HV winding 1 minute power frequency withstand voltage of	kV rms
	LV winding	KV 1115
	Estimated maximum inrush current on HV	A
	winding (0% tap)	
	Positive phase sequence impedance voltage on	
	rated kVA base between main and secondary windings at:-	
	i. Transformer ratio	%
	ii Highest ratio	At tap%
	iii Lowest ratio	At tap%

	lation at rated kVA between main and dary windings at:- Unity power factor	%
ii.	0.95 power factor lagging	%
	3 second short circuit fault level:-	N 41) / A
i. ::		MVA
ii.	LV winding	MVA
Mechanical C	haracteristics	
Oil stre	ength required for initial filling	kV rms
	um allowable oil strength in service	kV rms
	num moisture content in oil for initial filling	ppm
	num moisture content in oil service	ppm
Details of Cor	nstruction	
Туре о	of winding:-	
i	LV	
ii.	HV	
Dimensions, I	Masses, Volumes	
Total of	pil quantity at 20C	litre
Dimensions o	f transformer in service	
i.	Length overall (incl. Radiators)	mm
ii.	Width overall	mm
iii.	Height overall	mm
Masses		
i.	Mass of transformer with oil	kg
ii.	Mass of transformer without oil	kg
iii	Untanking mass of core and windings	
		kg

(v) Spare Parts Included (List)

Control and Automation Systems

The Contractor shall provide the data listed on the following data sheets for each different control and automation system as part of their tender design:

(i)	Control System Manufacturer	
Name	and address	
Count	ry of manufacture	
(ii)	Drawings and Data to be Submitted	
• • •	Control system architecture drawing Technical literature on PLC and HMI systems offered. Technical literature on panel system offered Concept arrangement drawing for Unit and Station PLC panels IO list for each PLC	
(iii)	Guarantees Control system Average System Availability guarantee	%
(iv)	Control System Data	
	PLC Panel Details Panel Manufacturer Place of Manufacture IP Rating of completed panel Panel length Panel width Panel height PLC Details PLC Manufacturer PLC Model Country of manufacture Number of 100BaseT ports Number and Type of Serial Ports Protocols supported for 100BaseT ports Protocol for communications with Employers SCADA Remote IO communications protocol Max number of digital inputs Max number of digital outputs Max number of analogue inputs	mm mm mm mm

Max number of analogue outputs Max number of RTD inputs Processor Model Programming methods supported On line programming supported	Yes/No
Digital Input Module	
Nominal input voltage	V DC
Number of DI points per module	
Number of DI points per common	
Rated impulse withstand voltage between input and ground	kV
Digital Output Module	
Nominal output voltage	V DC
Clean contact type DO	Yes/No
Number of DO points per module	
Number of DO points per common	
Rated impulse withstand voltage between output	kV
and ground Analogue Input Module	
Nominal input type	4-20mA
Number of AI points per module	
Number of AI points per common	
Rated impulse withstand voltage between input	kV
and ground Resolution	Bit
Accuracy	Bii % FSD
Analogue Output Module	
Nominal input type	0-10V/4-20mA
Number of AO points per module	
Number of AO points per common	
Rated impulse withstand voltage between input and ground	kV
Resolution	Bit
Accuracy	% FSD
Voltage Mode Output Loading	Ω
Current Mode Output Loading	Ω
RTD Input Module Nominal input type	PT100
Number of RTD points per module	FT100
Rated impulse withstand voltage between input	kV
and ground	
Resolution	Bit
Accuracy	% FSD
Power Supply Input voltage range	V DC
Redundant	Yes/No
Network Switches	
Manufacturer	
Model	
Power supply voltage range	V DC
Number of RJ45 ports Number of Fibre optic ports	

Fibre optic port type	_ Single/multimode
Managed switch	Yes/No
HMI Computers	
Manufacturer	
Model	
Power supply voltage range	V DC
Operating System	Windows 7
Hard drive capacity	
Solid state hard drive	Yes/No
Processor type and speed	
RAM	
Display size	Inch
Display resolution	
Touchscreen display	Yes/No
HMI Software	
Manufacturer	
Software Name	
Number of licenses offered	
Software Modules included (list all)	
Maximum number of tags	
Requires hardware lock?	Yes/No
PLC Programming Computer	
Manufacturer	
Model	
PLC Programming Software	
Manufacturer	
Software Name	
Number of licenses offered	
Instruments	
Level Transmitter type	
Level Transmitter manufacturer	
Surge Protection type	

(v) Spare Parts Included (List)

Protective Relaying Systems

The Contractor shall provide the data listed on the following data sheets for each different protective relaying system as part of their tender design:

(i) Protective Relaying System Manufacturer

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

- Technical literature on protective relays offered.
- Technical literature on panel system offered
- (iii) Protective Relaying System Data

Relay Panel Details (If relays not incorporated within	
PLC panels or 400V Switchgear) Panel Manufacturer	
Place of Manufacture	
IP Rating of completed panel	
Panel length	mm
Panel width	mm
Panel height	mm
Generator and Transformer "All in One" Protection Relay	
Details	
Relay Manufacturer	
Relay Model	
Country of manufacture	
Communications protocols supported	
Protective functions included (Use ANSI Codes)	
Number of programmable digital inputs	
Number of trip outputs	
Number of programmable digital outputs	
Number of single phase CT inputs	
Number of single phase VT inputs	
Power supply voltage range	V DC
Feeder Protection Relay Details	
Relay Manufacturer	
Relay Model	
Country of manufacture	
Communications protocols supported	
Protective functions included (Use ANSI Codes)	
Number of programmable digital inputs	
· - · · ·	

Number of trip outputs Number of programmable digital outputs Number of gingle phase CT inputs	
Number of single phase CT inputs Number of single phase VT inputs	
Power supply voltage range	V DC
Trip Relay Details	
Relay Manufacturer	
Relay Model	
Country of manufacture	
Relay Programming Computer	
Manufacturer	
Model	
Relay Programming Software	
Manufacturer	
Software Name	
Number of licenses offered	

Spare Parts Included (List)

(iv)

24V DC Systems

The Contractor shall provide the data listed on the following data sheets for each different 24V DC system as part of their tender design:

(i) 24V DC System Manufacturer

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

• Technical literature on dc system offered.

(iii) 24V DC System Data

24V Batteries	
Manufacturer	
Туре	VRLA
Catalogue number	
Number of cells	
Battery bank nominal voltage	V DC
Battery bank capacity	Ah
Expected battery life	Years
Discharge rates for the following times with an	
initial electrolyte temperature of 25°C	
i. Eight hour	A
ii. Four hour	A
iii. One hour	Α
Dimensions of Battery and Rack Assembly	WxHxD
Design continuous demand of connected loads	Α
Battery Chargers	
Manufacturer	
Type or catalogue number	
DC Output (rated).	
i. Current	
ii. Voltage	
AC Input (rated).	
i. Current	
ii. Voltage	
Temperature compensation to prevent battery	Yes/No
thermal runaway	
Voltage regulation	%
Ripple	V rms
Dimensions of battery charger	WxHxD

	DC Distribution Panel Manufacturer Type or catalogue number Number of feeder MCBs	
(iv)	Dimensions of DC distribution panel Spare Parts Included (List)	WXHXD

Local Service AC Systems

The Contractor shall provide the data listed on the following data sheets for each different local service AC system as part of their tender design:

(i) Local Service AC System Manufacturer

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

- Technical literature on local service switchboard.
- Technical literature on light fittings proposed.
- (iii) Local Service AC System Data

Manufacturer	
Туре	
Rated Current	
1 second short circuit withstand	
Rating of incoming switch	
Number of outgoing feeders	
Light fittings (complete for each type)	
Manufacturer	
Туре	
Power outlets (complete for each type)	
Manufacturer	
Туре	

(iv) Spare Parts Included (List)

Cabling

The Contractor shall provide the data listed on the following data sheets for each different cable type as part of their tender design:

Name and address

Country of manufacture _____

(ii) Drawings and Data to be Submitted

- Technical literature on each cable type offered.
- Type test certificates on each cable type offered.

(iii) Cable Data

22kV Cable Manufacturer	
Country of manufacture	
Rated voltage	
Conductor material	
Insulation material	
Sheath material	
Cross sectional area and stranding	
Screen type and 3s current rating	
Design Standards	
415V Cable	
Manufacturer	
Country of manufacture	
Rated voltage	
Conductor material	
Insulation material	
Sheath material	
Cross sectional area and stranding	
Design Standards	
Control Cable	
Manufacturer	
Country of manufacture	
Rated voltage	
Conductor material	
Insulation material	
Sheath material	
Cross sectional area and stranding	
Design Standards	
Instrument Cable	
Manufacturer	

Country of manufacture	
Rated voltage	V
Conductor material	
Screen type	
Insulation material	
Sheath material	
Cross sectional area and stranding	
Design Standards	
Fiber Optic Cable	
Manufacturer	
Country of manufacture	
Inner/Outer core diameter	
Sheath material	
Fiber Loss	
Design Standards	
Cable Tray and Ladder	
Manufacturer	
Country of manufacture	
Material	

Bidders Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder. If the bidding was preceded by a prequalification process then the forms included in this section and used earlier during the prequalification process need to be completed only if the information submitted at the time of prequalification requires updating.

Form ELI - 1: Bidder's Information Sheet

	Bidder's Information			
Bidder's legal name				
In case of JV, legal name of each partner				
Bidder's country of constitution				
Bidder's year of constitution				
Bidder's legal address in country of constitution				
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)				
Attached are copies of the foll	owing original documents.			
 In case of single entity 4.1 and 4.2. 	, articles of incorporation or constitution of the legal entity named above, in accordance with ITB			
2. Authorization to represent the firm or JV named in above, in accordance with ITB 22.2.				
3. In case of JV, letter of	intent to form JV or JV agreement, in accordance with ITB 4.1.			
 In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5. 				

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV Information					
Bidder's legal name					
JV Partner's legal name					
JV Partner's country of constitution					
JV Partner's year of constitution					
JV Partner's legal address in country of constitution					
JV Partner's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)					
 Attached are copies of the following original documents. 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. 					
 Authorization to represent the firm named above, in accordance with ITB 22.2. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5. 					

Form LIT - Pending Litigation

Each Bidder or member of a JV must fill in this form

Pending Litigation						
	No pending litigation in accordance with Criteria 2.2 of Section 3 (Evaluation and Qualification Criteria)					
D Pe	ending litigation in accordance with Criteria 2.2 of Section 3 (Evaluation and Qu	alification Criteria	a)			
Year	Matter in Dispute	Value of Pending Claim in US\$ Equivalent	Value of Pending Claim as a Percentage of Net Worth			

Form FIN - 1: Financial Situation

Each Bidder or member of a JV must fill in this form

Financial Data for Previous 5 Years [US\$ Equivalent]					
Year 1: 2010-2011	Year 2: 2011 - 2012	Year 3: 2012-2013	Year 4: 2013 - 2014	Year 5: 2014 - 2015	

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions.
 - All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Average Annual Turnover

Each Bidder or member of a JV must fill in this form

	Annual Turnover Data for the Last 3 Years					
Year	Amount Currency	Exchange Rate	US\$ Equivalent			
	Ανα					

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for contracts in progress or completed, converted to US Dollars at the rate of exchange at the end of the period reported.

Form FIN – 3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in Section 3 (Evaluation and Qualification Criteria)

	Financial Resources					
No. Source of financing Amount (US\$ equivalen						
1						
2						
3						

Form FIN- 4: Current Contract Commitments

Bidders and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

		Current Contrac	ct Commitments		
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Current US\$ Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [US\$/month)]
1					
2					
3					
4					
5					

Form EXP – 1: General Experience

Each Bidder or member of a JV must fill in this form

	General Experience				
Starting Month Year	Ending Month Year	Years	Contract Identification and Title Name and Address of Employer Brief Description of the Works Executed by the Bidder	Role of Bidder	

Form EXP – 2(a): Specific Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature					
Contract No of	Contract Identification				
Award Date	-	Completion Date			
Role in Contract	Contractor	Management Contractor	Subcontractor		
Total Contract Amount			US\$		
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount			
Employer's Name Address Telephone/Fax Number E-mail					
Description of	of the similarity in accord	ance with Criteria 2.4.2(a) of Section 3		

Form EXP - 2(b): Specific Experience in Key Activities

Fill up one (1) form per contract

Contract with Similar Key Activities					
Contract No of	Contract Identification				
Award Date		Completion Date			
Role in Contract	Contractor	Management Contractor	Subcontractor		
Total Contract Amount			US\$		
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount			
Employer's Name Address Telephone Number Fax Number E-mail					
Description of	the key activities in acco	rdance with Criteria 2.4.2	(b) of Section 3		