



شركة الرسيل للطاقة ش.م.ع.م AL-RUSAIL POWER COMPANY SAOC

Tender Document

The Sale of All Plant Equipment at AL-Rusail Power Plant Site

Project No. 415042

File no. 70.0000

Prepared for
AL-Rusail Power Company, SAOC

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Black & Veatch International Company

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Acronym List

GT	Gas Turbine
GTG	Gas Turbine Generator
DCS	Distributed Control System
EDG	Emergency Diesel Generator
DM	Demineralized
DOR	Division of Responsibility
EPC	Engineering, Procurement, and Construction
GIS	Gas Insulated Switchgear
GST	Gulf Standard Time
GSUT	Generator Step Up Transformer
HP	High-Pressure
HSE	Health Safety and Environment
LP	Low-Pressure
LV	Low Voltage
MCC	Motor Control Center
MOG	Ministry of Oil and Gas
MVA	Mega Volt Ampere
MW or MW _e	Mega Watts Electrical
NFPA	National Fire Protection Association
NG	Natural Gas
NTP	Notice to Proceed
NO _x	Nitrous Oxides
NPHR	Net Plant Heat Rate
OEM	Original Equipment Manufacturer
O&M	Operating and Maintenance
OSHA	Occupational Safety and Health Administration
PPA	Power Purchase Agreement
psia	Pounds per Square Inch Absolute
RFP	Requests for Proposal
SAOC	“Société Anonyme Omanaise de Crédit” [Omani Joint Stock Company]
SAOG	“Société Anonyme Omanaise de Gestion” [Omani Public Joint Stock Company]

SCADA	Supervisory Control and Data Acquisition
TMCR	Turbine Maximum Continuous Rating
XFMR	Transformer
UAT	Unit Auxiliary Transformer
UPS	Uninterrupted Power Supply
USD	United States Dollar

Project Definitions

This section provides a definition and explanation of some of the 'common terms' used in this document and does not intend to replace any Contractual or legal definitions used in any codes, standards, and local regulations.

"Bidder" means Contractor, a supplier or a manufacturer or a consortium who submits or intends to submit a bid in response to invitation to bid (ITB)

"Company" means Al Rusail Power Company SAOC named as owner in the Contract who owns and / or operates the Plant or Unit identified in the Contract.

"Contract" means the Contract Agreement between Owner and selected bidder, the Letter of Acceptance, the Letter of Bid, the Commercial Conditions, the Minimum Functional Specification, the Drawings, the Schedules, and the further documents which are listed in the Contract Agreement or in the Letter of Acceptance.

"Contractor" means the selected Bidder named as Contractor in the Contract accepted by the Owner and his legal successors and the selected Bidder.

"Contract Award" means the date the Contract Agreement between Owner and selected Bidder is signed by both parties or, otherwise, a formal notice to proceed is issued by Owner and accepted by the selected Bidder.

"Contractor's Equipment" means all apparatus, machinery, vehicles and other things including Power Block Equipment required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Owner's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.

"Cost" means all expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

"Day" means a calendar day and **"Year"** means 365 days or 366 days in a leap year.

"Design Fuel " includes fuels as specified for the range of properties of fuel for which the Plant shall be capable of delivering nominal output at entire range of ambient condition.

"Engineering Judgment" refers to technical judgments made by knowledgeable engineers experienced in the application of the Code. Engineering judgments must be consistent with Code philosophy, and such judgments must never be used to overrule mandatory requirements or specific prohibitions of the Code.

"Functional Tests" means tests carried out to ensure safe and satisfactory functional operation of major plant equipment and systems.

"Good Engineering and Construction practice" means the practices, methods, and acts engaged in or approved internationally by the majority of professional engineering and construction Contractors for the design, construction, startup, testing, and commissioning of thermal electric generating power plants in different countries of the world consistent with the intended mode of operation of the power plant which, at that particular time, in the exercise of reasonable judgment, in light of the facts known or that reasonably should have been known at the time a decision is made, would be expected to accomplish the desired result in a manner consistent with Governmental Regulations, reliability, safety, and environmental protection.

"Guarantee Fuel" means Natural Gas (NG) as specified against which Performance Guarantees are measured.

"Guaranteed Net Plant Heat Rate (NPHR)" for the Plant is total fuel consumed by the Facility divided by the Net Power Output of the Plant. Fuel consumption used in determining Net Heat Rate is based on the higher heating value (HHV) of the fuel.

"Guaranteed Net Power Output" for the Plant is the power produced by the Facility, less the auxiliary loads (24 hours average) to run entire power plant equipment and electrical losses in GSUT, UAT and other distribution facilities measured at HV side of the GSUT.

"Maximum Plant Output" means gross output at guaranteed contract conditions.

"Mechanical Completion" is defined as the event when the Contractor certifies and Owner approves that Contractor has successfully completed all the Works.

"Owner" means the person named as owner in the Contract and the legal successors in title to this person who owns and / or operates the Plant or Unit identified in the Contract.

"Owner Engineer" means the person appointed by the Owner to act as the Engineer for the purposes of the Contract and named in the Contract Data, or other person appointed from time to time by the Owner and notified to the Contractor

“Performance Tests” are defined as tests carried out to demonstrate performance of the Unit and its major equipment as compared to the performance guarantees.

“Permanent Works” means the permanent works to be executed by the Contractor under the Contract

“Power Plant Facility or Unit” means the apparatus, machinery and vehicles intended to form or forming part of the Permanent Works.

“Site” means the places where the Permanent Works are to be executed and any other places as may be specified in the Contract as forming part of the Site.

“Subcontractor” means any person named in the Contract as a Subcontractor, or any person appointed as a Subcontractor by the Contractor, for a part of the Works; and the legal successors in title to each of these persons.

“Supplier” means a supplier or a manufacturer or a consortium who intends to supply equipment in response to order by Contractor.

“Temporary Works” shall constitute any works required to successfully complete the Permanent Works but not form part of the Permanent Works. Temporary Works may be required to gain Site access, moor floating equipment or secure the project Site. All Temporary Works are deemed to have been included in the Contract Price.

“Unit” shall mean the complete power plant under consideration and not limited to gas turbine, generator, and auxiliaries.

“Works” mean the Permanent Works and the Temporary Works, or either of them as appropriate.

1000.0 Instruction to Bidders

1000.1 Invitation to Purchase Power Plant Equipment

Al Rusail Power Company SAOC hereinafter referred to as the “Company” invites interested parties to purchase all or any power equipment located at the Al Rusail Power Plant site (the “Plant”) located in the Sultanate of Oman (“Oman”). All equipment will be sold on an “as is where is” basis to the highest bidder and the Company invites both local and international parties interested in purchasing all or specific item (s) of equipment. As shown in Figure 1, the power assets include eight (8) Open Cycle Gas Turbine Units.



Figure 1 Al Rusail Power Plant

1000.2 Al Rusail Power Company SAOC

Al Rusail Power Company SAOC, a closed joint stock company was incorporated under the Laws of the Sultanate of Oman. The Company was established to build and operate a 665 MW power plant at PO Box 121, Postal Code 134, Jawharat A’Shatti, Sultanate of Oman.

The Company’s issued share capital is owned by the following stakeholders:

Table 1 Stakeholder Shareholding

Entity	% shareholding	Number of shares
SMN Power Holding SAOG	99.9996%	499,998
Kahrabel FZE	0.0002%	1
Jean-Francois Roberge	0.0002%	1

The table below summarizes the commissioning years of all eight units.

Table 2 Year of Commissioning

Operational Phase	Units	Year of Commissioning
1	1,2,3	1984
2	4,5,6	1987
3	7	1997
4	8	2000

Since then, it supplied electricity to Oman Power and Water Procurement Company under a 17-year Power Purchase Agreement ("PPA") which was expired in March 2022. Later the Company was given an extension for Units 7 & 8 until December 31st, 2023. Presently, Units 1 to 6 are retired while Units 7 & 8 are operational. The Company has contracted STOMO for O&M of the facility.

The Company is now interested in selling all the Plant equipment, with preference given to buyers interested in purchasing the entire plant for dismantling the equipment and transporting it to their own jurisdiction for their own use. To the extent that a buyer for the entire plant cannot be found, the equipment will be sold individually or group wise at the best price offered.

Since Units 7 and 8 are still operational; Company will offer the Plant Equipment/systems for sale in following two Parts:

- **Part A** Equipment/systems immediately offered for sale: Comprising of all equipment/systems belonging to units 1 to 6 (Refer to Table 4) and corresponding inventory and spare parts as listed in Appendix 5.
- **Part B** Equipment/systems offered for sale after expiration of Unit 7 & 8 PPA: Comprising of all equipment/systems belonging to units 7 & 8 (Refer to Table 5), other common or inter-dependent plant equipment/systems necessary for the operation of unit 7 & 8 and corresponding inventory and spare parts as listed in Appendix 5.

It is to be noted that GT 7& 8 PPA is currently valid until 31 December 2023. In case the PPA gets extended further (no confirmation on extension is available to date), Company reserves the right to forfeit or defer the sale of equipment/ systems in Part B. The Company will notify to bidder of any such developments on PPA extension of Unit 7 & 8.

Further details about the equipment for sale is provided in Section 1100.

1000.3 Purchase Sales Agreement/Bill of Sales

A suitable Purchase Sales Agreement/Bill of Sales shall be entered into or provided by successful bidders.

1000.4 General Instructions

These instructions to those interested in purchasing all or specific equipment items, are intended to aid Bidders in the preparation of their Bids.

Bidders are advised to carefully read these instructions prior to the preparation of their Bid Submission. Failure to submit the information required in the format provided will be sufficient cause for rejection of the Bid, at the discretion of the Company.

Bidders will not be reimbursed for any cost incurred by them in the preparation and submission of their bids or for any visits to the Plant site for the purpose of inspecting all or some part of the equipment offered for sale.

1000.4.1 Bid Submission

The bid price for all of the equipment shall be submitted in a sealed envelope addressed to:

Al Rusail Power Company SAOC

Qurum Building, Building No.1022, 1st Floor, Office No.15,Way No.1013, Al Qurum-Muscat

One (1) Original and one (1) Copy of the Bid Price Form(s) containing the bid price for all the equipment shall be delivered not later than the date and time prescribed in this Tender.

The Bidder shall be held responsible for ensuring that their bids are received in accordance with the instructions stated herein. Late bids shall not be considered even though late as a result of circumstances beyond the control of the bidder. Responsibility for the actual physical delivery of submitted bids rests entirely with the Bidders.

The Bid Price Form(s) shall be submitted by each Bidder as per the format set out in Schedule C Bid Price for Part A Sell off for Part A Equipment/systems and Schedule D BID price for part B sell off for Part B Equipment/systems and signed by the duly appointed Principal fully authorized to represent and bind the Bidder. In the case of Joint Ventures/Associations all parties to such Joint Ventures/Associations shall sign the Bid Price Form. The Bidder shall add additional sheets to the Bid Price Form, as needed to include the price break up for each piece of equipment it intends to purchase.

A Bid Bond of 5% plus 5%VAT is required to be submitted along with the Bid Price Form(s). For avoidance of doubt, and by way of example, if the bidder is offering to pay \$ USD1,000,000/-, the bid bond value will be \$USD 52,500.

The successful Bidder must provide a Performance Bond of 10% of the bid price (including VAT) covering the removal of equipment from the plant site before work can commence.

The bid price shall be valid for sixty (60) days from the date fixed for the submission of the bid. The bid price currency must be submitted in either Omani Rials or United States Dollars and shall include 5% VAT, as shown in the Bid Price Form. All payments made by the Bidder must be by a bank draft/pay-order/manager's cheque in favour of "Al Rusail Power Company SAOC" payable in the Sultanate of Oman.

1000.4.2 Bid Due Date and Time

Bids must be submitted by the close of business (05:00 pm GST) on **26th June 2023**. Bids offered for submission after the bid due date and time will not be accepted by the Company under any circumstances.

1000.4.3 Addendum to Invitation to Submit a Bid

If for any reason prior to the bid submission, it becomes necessary to modify the Tender Document or inform Bidders of certain information regarding the tendering process, an addendum will be issued to all those who have expressed an interest to bid, and submitted an Intention to Bid Form to the Company and any such Addenda shall be considered as part of the tender documents.

Receipt of such addenda should be acknowledged by the Bidder, but non-acknowledgment of receipt shall not relieve the Bidder from being bound by such addendum if the addendum were communicated to the Bidder by email or registered mail, provided that such addendums are issued 7 (seven) days prior to the date fixed for submission of bids.

1000.4.4 Site Visits

A single site visit on an "as is where is" basis will be scheduled for Bidder to view all or some parts of the equipment at the Plant. The site visit shall be mandatory for all bidders or bidder's representatives. Bidder shall propose a specific date and time by notifying its intention and schedule to visit the site by providing the Intention to Visit the Plant as per Schedule B. Company will communicate the conformance on the Bidder's proposed site visit schedule.

Company has provided the site inspection report for bidders' information in Appendix 2; however, Company shall be, in no way, responsible if bidder finds any discrepancies/deviations related to Company's site inspection report during its visit or at the time of decommissioning and dismantling. Bidder shall be solely responsible for assessment of Equipment/systems it wants to purchase.

Bidder shall bear the cost of the site visit including travel, local conveyance, accommodation, etc.

1000.4.5 Preference of Bids

The Company gives preference to bids in the following order of priority:

1. A bid for the entire Plant
2. A bid for more than one equipment of different types (e.g. One GT Unit, 1 Transformer, one Storage Tank).
3. A bid for an individual equipment (e.g: one GT Unit).

However, the Company reserves the right to change the order of priority.

In submitting a bid, the bidder must show the bid price for each piece of equipment, as well as the total bid price, as per the Bid Price Schedule format prescribed in Schedule C for Part A and Schedule D for Part B.

1000.4.6 Organization of Bid

The Bidder shall submit their bid price for the equipment they are interested in with the required information as set out in the Bid Price Form, sealed in an envelope containing one original and one copy, as per Section 1000.4.1. The envelope shall not bear any name or mark identifying the Bidder.

The Bidder, while preparation of the bid, shall note that all equipment/systems are being offered on an "as is where is" bases, and it is each bidder's responsibility to safely remove the equipment from site within the prescribed time and in accordance with the standard Original Equipment Manufacturer ("OEM") procedures for dismantling and shipping its equipment, as may be applicable and the Decommissioning & Dismantling scope responsibility matrix and Dismantling guidelines provided in Appendix 3 and Appendix 4 respectively.

The successful bidder shall take utmost care during the Dismantling of Part A (GT1 to 6 units) equipment/systems to avoid – i) any disruption to Part B (units GT 7&8) equipment/systems in case Part B



(units GT 7&8) equipment/systems were in operation during the dismantling process and ii) damage to other equipment/ systems of the Facility. Bidder shall be solely responsible and bear the cost of any such loss/damage.

Under normal circumstances, the winning bidder must remove the equipment from the site within three (3) months of being notified by the Company that their bid price has been successful. However, a longer period is possible subject to mutual agreement between the winning bidder and the Company, the extended time of which must be agreed to within five (5) business days of the bidder being notified of their successful bid. If an agreement on extension time cannot be reached, the Company has the right to reject the bid offer.

The Company will not consider onsite storage requests for Equipment/systems removed for more than thirty (30) days from the date of removal of Equipment/systems.

The Company will notify each bidder whether their bid price is accepted or rejected.

1000.4.7 Bid offer

Bidder shall submit the bid offer strictly complying with all tender requirements and solely on the basis of the Tender Documents without any deviations or exceptions whatsoever.

In case of any deviations, Bidder shall submit the deviations in the prescribed Schedule F (Technical deviations) and Schedule G (Commercial deviations). Except declared deviation by the bidder and agreed by the Owner, all other technical requirements of the Tender document shall be deemed to be complied by the Bidder.

1000.4.8 Clarifications, Doubts or Obscurities

Any clarifications required with regard to the Tender Documents or any other related matter shall be communicated by email not later than fourteen (14) days before the date fixed for the submission of bids. If considered appropriate, a reply in the form of a circular letter/addendum will be communicated to all the potential Bidders.

Request for clarifications shall be sent to the following:

By email:

To: Anupam.kunwar@smnpower.com

With a copy to:

Mohammed.alrawahi@smnpower.com;

Abdullah.AINaimi@smnpower.com;

Said.Alhinaee@power.com

Aisha.albalushi@smnpower.com;

Replies to all requests for clarifications will be issued within five (5) business days of receipt of such request and issued to all interested potential bidders who have officially received the tender documents by completing the requested form. Business days in Oman are Sunday to Thursday, inclusive.

1000.4.9 Bidder's Enclosures

The Bid submission shall be organized strictly as stipulated under Section 1000.4.6 and 1000.4.7 of the Tender Documents. All sheets of each document accompanying the Bid Price Form submitted shall be endorsed with the Bidder's official company stamp.

Where any Bidder does not comply with this requirement or if supporting documents and Schedules as per Section 23000 are not furnished, the bid submission may be rejected without any further requests or clarifications.

1000.4.10 Evaluation of Submitted Bids

The Company will base its selection on the "best value for price basis", and on the "best bid meeting the Company's requirements". The evaluation will take into consideration the preferences noted in Section 1000.4.5.

The Company may ask the bidder to arrange a meeting to clarify any portion of their response, particularly if an Alternative Bid Offer is submitted. Bidders must be prepared to do so at their cost. In addition, Bidders may be asked to respond to certain clarifications regarding their bids at any time during the evaluation process.

1000.4.11 General Compliance Requirements

The successful Bidder(s) must adhere to the Company's policy and procedure regarding health, safety, and the environment (HSE) at all times during the removal of equipment from the site, including during the site visits. All Bidders must confirm their commitment to abide by the Company's policy and procedure regarding health, safety, and environment at all times. The Company's HSE policy is attached in Appendix 1 for Bidder's reference. Bidder shall also refer Appendix 4 for HSE requirements.

In general:

- It will be solely the Bidder's responsibility to fulfill all the legal formalities with respect to the Health, Safety, and Environmental aspects of the entire job (namely, the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors hired by the Bidder comply with the same requirement as the Bidder himself and shall be liable for ensuring compliance with all HSE laws.
- It will be entirely the responsibility of the Bidder / his supervisor / representative to ensure strict adherence to all HSE measures and statutory rules during the execution and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by the company's Installation Manager / Safety Officer / Engineer / Official / Supervisor / Junior Engineer for safe operation

The bidder(s)/buyer(s) represent(s) and warrant(s) to the Company that:

- i. It is aware of and is familiar with the Embargo Laws applicable to it and applicable to the Company in connection with the performance pursuant to this tender and
- ii. It complies with and shall continue to comply with laws, rules, regulations, executive orders, decrees, ordinances, measures, decisions, and jurisprudences (howsoever designated) in force and applicable to it, including, without limitation, applicable Embargo Laws, in connection with the performance pursuant to this tender and
- iii. It shall not cause the Company to, either directly or indirectly, violate any Embargo Laws applicable to the Company; and
- iv. Its employees, officers directors, agents, partners, suppliers, co-contractors, shareholders, beneficial owners, affiliates, principals or any natural or legal person or entity directly or indirectly under its control or acting on its behalf (howsoever designated), comply with and shall comply with laws, rules, regulations, and policies applicable to them including, without limitation, applicable Embargo Laws, in connection with the performance pursuant to this tender and
- v. It shall immediately inform the Company in the event of any suspected breach of covenants, representations, and warranties by itself, as soon as it is aware or should have been reasonably aware of such suspected breach.; and
- vi. It shall inform the Company in the event of any suspected breach of covenants, representations and warranties by its employees, officers directors, agents, partners, suppliers, co-contractors, shareholders, beneficial owners, affiliates, principals or any natural or legal person or entity directly or indirectly under its control or acting on its behalf (howsoever designated), as soon as it is aware or should have been reasonably aware of such suspected breach.

"Embargo Laws" shall mean any applicable law or regulation regarding economic sanctions, trade embargos or other restrictive measures, including those laws or regulations adopted, implemented or enforced by the Government of the United States of America, the Government of the United Kingdom, the Council of the European Union and the United Nations.

The successful Bidder(s) must also comply with the Company's Decommissioning and Dismantling Procedural Guidelines in removing any major equipment from the Plant site. The Decommissioning and Demolition Scope Responsibility Matrix and a copy of these procedures are included in Appendix 3 and Appendix 4.

The Company's Dismantling Procedural Guidelines described in Appendix 4 are provided as guidelines only, and the successful bidder shall take full responsibility for the application of these guidelines in dismantling and removing the equipment from the site. Bidder shall prepare the detailed procedures for the safe removal of equipment purchased or left behind. The Bidders should submit with their bid a written Disassembly Plan with drawings, sketches, a Level 1 Schedule, and a list of equipment to be used for disassembly with their bid in Schedule H and Schedule I. Their plan should specifically address each of the items they are bidding to purchase.

For any equipment transported outside of Oman, the buyer is responsible for meeting all import requirements of the country in which they plan to ship the equipment, and the Company bears no responsibility in this regard whatsoever.

1000.5 Subcontracting

Prior to signing of the purchase agreement, Bidder shall take Company's approval on appointment of Sub Contractor.

The Bidder shall not be permitted to enter into any Sub-Contracts without the prior written consent of the Company, provided that such consent shall not to unreasonably withheld or delayed.

1000.6 Bidder's Qualification Requirement

The Bidder or its Subcontractor shall possess required license, permits, certifications to perform the activities in OMAN as stated in this document.

The Bidder or its Subcontractor shall –

- i. possess previous experience in executing the similar works.
- ii. be conversant with Hazardous material handling and disposal norms in Oman.
- iii. possess excellent HSE track record with zero LTI in the last three years and confirm adherence to the compliance requirements as stated in Section 1000.4.11.

The Bidder shall provide list of its Qualification and Experience (Q&E) indicating fulfillment of above stated Qualification Requirements in Schedule M.

The Bidder or its Subcontractor shall possess experienced manpower, and Tools and Plants (T&P) to execute the required works as per the Tender document including dismantling work and provide the details of the same in Schedule H and Schedule I attached along with Bid documents.

1100.0 General Requirements and Scope of the Work

1100.1 Facility Overview

The Plant comprises eight (8) gas turbine units of varying capacities and installed in four different phases as below:

Table 3 Gas Turbine Units Installation Details

Unit Number	Capacity (MW)*	Installed Year	Operational Phase
1	81	1984	1
2	81	1984	1
3	81	1984	1
4	81	1987	2
5	81	1987	2
6	81	1987	2
7	93	1997	3
8	93	2000	4

*At reference conditions



The gas turbines are arranged for operation in an open cycle configuration, together with related ancillary equipment required for a fully independent operation. These turbines are designed to run primarily on natural gas and light distillate fuel oil is used as a backup fuel source. Natural gas is supplied to the site by MOG, while light distillate oil is transported by road tankers to the site.

There is also diesel fuel oil stored in two storage tanks located at the plant. The two storage tanks have volumes 10554 m³ and 10000 m³ respectively.

Major equipment at the Plant are as stated in the below table:

The table below indicates list of Equipment/systems offered for sale in Part A comprising of Unit 1 to 6 and the associated auxiliaries & spare parts that are immediately offered for sale.





Table 4 List of Equipment/systems for Part A Sell Off






Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
Phase 1 (GT 1,2 &3)					
M1	Mechanical				
M101	Gas Turbine Package: i.GT and Compressor, rotors, ii.atomizing system, combustion system, IGV, Jacking oil system, Hydraulic oil system, Lube oil system, iii.CO2 system for fire protection, iv.startup motor & system, V.GT compartment heating and ventilation system, Vi.Acoustic enclosure	3	John Brown Engineering Gas Turbine Ltd./ GE/ MS9000E / PG9151E /1983	Rated Output: 82 MW Guaranteed Output: 81 MW ¹ demonstrated at DCC test in 2021. Approximate weight each: 350MT	
M102	Air Inlet Filters: i.plenum assembly, ii.pulse cleaning system iii.Supporting Steel structure	3	John Brown Engineering Gas Turbine Ltd	Type: Pulse jet type, self- cleaning Approximate weight each: 70 MT	

¹ At reference conditions









Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
M103	Exhaust stack and Plenum	3	John Brown Engineering Gas Turbine Ltd	Height: 25m Approximate weight each: 60 MT	
M104	Cooling water system: for lube oil cooling, generator water cooling,	3	John Brown Engineering Gas Turbine Ltd/ GEA Air exchangers Limited	Approximate weight each: 8 MT	
E1	Electrical				
E101	Generator package: consisting of Generator rotor, stator, Exciter	3	Brush / BDAX9.450 R	109.5 MW (23 deg C), 3000 rpm, water cooled Approx. Weight each: 210 MT	
E102	Generator Step up Transformer	3	GT 1&3: Bonar Long GT 2: ABB in 2012	101/135 MVA, 14 KV /132 KV, ONAN/ONAF type. YNd5 Approx. Weight each: 150 MT	
E103	Unit Auxiliary Transformer	3	Bonar Long	750 KVA, 14 KV/0.433 KV, ONAN type Approx. Weight each:3 MT	
E104	Unit Transformer	3	Bonar Long	750 KVA, 6.6 KV/0.433 KV ONAN type Approx. Weight each: 3 MT	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
E105	Local Control Room (LCR)	3	GE	LV MCCs (2 Nos), relay panel & IRP panel, DC charger and battery system, Split AC system Approx. Weight each: 2 MT	
E106	Cables for Phase 1 equipment: i.132 KV ii.6.6 KV iii.415 V iv.LV control cables	Lot	–	–	
E107	Isolated Phase Bus duct	3	–	14 KV, 3 Phase, 50 Hz, 5000 A Approx. Weight: 2 MT	
E108	CT PT components	3 x 3	Sadelmi Cogepi	12000/√3:120/√3:120/√3, 100 VA	
I1	Control & Instrumentation				
I101	HMI and CPU	1	GE	Speedtronic Mark-V	
C1	Common Auxiliaries				
C101	Fuel oil forwarding system	4 pumps and associated piping, valves, from isolating valve	Alstom	–	
C102	Fuel gas supply system	lot	–	piping, valves, drain collectors, cyclone separators, from OGC terminal point	
C103	Firefighting piping & valves from isolating valve	3 lot	–	–	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
C104	Pulse cleaning compressed air system	2 compressor and associated system	-	-	
Phase 2 (GT 4,5 & 6)					
M2	Mechanical				
M201	Gas Turbine Package: i. GT and Compressor, rotors, ii. atomizing system, combustion system, IGV, Jacking oil system, Hydraulic oil system, Lube oil system, iii. CO2 system for fire protection, iv. startup motor & system, v. GT compartment heating and ventilation system, vi. Acoustic enclosure	3	General Electric/ MS9001E/ PG9151E /295264 to 295264/1986	Rated Output: 84.6 MW Guaranteed Output: 81 MW ² demonstrated at DCC test in 2021. Approx. weight. each: 350 MT	
M202	Air Inlet Filters: i. plenum assembly, ii. pulse cleaning system	3	Donaldson/ BELG INSTR. TTDOO-9049-256142	Pulse jet type, self-cleaning Approx. weight each: 70MT	
M203	Exhaust stack and Plenum	3	General Electric	Height: 25m Approx. weight each: 60 MT	
M204	Cooling water system: for lube oil cooling	3	Luwa/ 22.260833 4/1986	Approx. weight. each: 8 MT	





² At reference conditions

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
E2	Electrical				
E201	Generator package: consisting of Generator rotor, stator, Exciter, AVR system	3	Brush/ BDAX 9-355PR / 1986	105.75 MVA, 11.5 KVA, 0.8 PF, 3000 rpm, Air cooled. Approx. Weight each: 210 MT	
E202	Generator Step up Transformer	3	Nuova di Legano	HV 64.8/ 85.7/108 MVA, 11.5 KV /132 KV, ONAN/ONAF/OFAF type, YNd5 Approx. Weight each: 150 MT	
E203	Unit Auxiliary Transformer	3	Sten Trento S.p.a	750 KVA, 11.5 KV/0.433 KV, ONAN type Approx. Weight each: 3 MT	
E204	Not used		-	-	
E205	Local Control Room (LCR)	3		LV MCCs (2 Nos), relay panel & IRP panel, DC charger and battery system, Split AC system Approx. Weight each: 2 MT	
E206	Cables for Phase 2 equipment: i.132 KV ii.6.6 KV iii.415 V iv.LV control cables	Lot	-	-	
E207	Bus duct	3	CGEE Alsthom/	3 phase isolated,24 KVA, 6050 A, 50 Hz, 3 phase Approx. Weight each: 2 MT	
E208	CT PT components	3 x 3	-	12000/√3:120/√3:120/√3, 100 VA	



Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
I2	Control & Instrumentation				
I201	HMI and CPU	1	GE	Speedtronic Mark-VIe	
C2	Common Auxiliaries				
C201	Fuel oil forwarding pumps and associated piping, valves, from isolating valve	4 pumps	Alstom	–	
C202	Fuel gas supply system including	Lot	–	piping, valves, drain collectors, cyclone separators, etc. from MOG terminal point	
C203	Firefighting piping & valves from isolating valve	3 lot	–	–	

The table below indicates list of Equipment/systems offered for sale in Part B comprising of Unit 7 & 8 and the common equipment/systems necessary for the operation of Unit 7 & 8 & spare parts that are offered for sale after expiration of Unit 7 & 8 PPA.






Table 5 List of Equipment/systems for Part B Sell Off





Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
Phase 3 (GT 7)					
M3	Mechanical				
M301	Gas Turbine Package: i. GT and Compressor, rotors, ii. atomizing system, combustion system, IGV, Jacking oil system, Hydraulic oil system, Lube oil system, iii. startup motor & system, iv. GT compartment heating and ventilation system, v. Acoustic enclosure	1	GE / PG 9171(E)	Rated Output: 103 MW Guaranteed Output: 93 MW ³ demonstrated at DCC test in 2021. Approx. weight each: 350 MT	
M302	Air Inlet Filters plenum assembly, pulse cleaning system	1	GE	Pulse jet type, self-cleaning Approx. weight: 70 MT	
M303	Exhaust stack and Plenum	1	–	Height: 25m Approx. weight: 70 MT	
M304	Cooling water system	1	GE	Approx. weight – 7 MT	
E3	Electrical				
E301	Generator package: consisting of Generator rotor, stator, Exciter	1	GEC Alsthom/ T240-370	150 MVA, 15 KV, 0.8 PF, 3000rpm, air cooled Approx. Weight: 210 MT	
E302	Generator Step up Transformer	1	Crompton Greaves /	82.5/110/137.5 MVA, 15 KV /138.6 KV, ONAN/ONAF/OFAF type, YNd5 Approx. Weight: 150 MT	
E303	Unit Auxiliary Transformer	1	Alstom	1 X 1000 KVA 15 KV/0.433 KV, ONAN type, Dyn5 Approx. weight: 4 MT	
E304	Not used				
E305	Local Control Room (LCR)	1	–	LV MCCs (2 Nos), relay panel & IRP panel, DC	

³ At reference conditions

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
				charger and battery system, Split AC system	
E306	Cables for Phase 2 equipment: i.132 KV ii.6.6 KV iii.415 V iv.LV control cables	Lot	–	–	
E307	Bus duct	1	CEGE LEC	3 phase isolated,24 KVA, 6050 A, 50 Hz, 3 phase Approx. Weight: 2 MT	
E308	CT PT components	3 x 3	–	12000/ $\sqrt{3}$:120/ $\sqrt{3}$:120/ $\sqrt{3}$, 100 VA	
I3	Control & Instrumentation				
I301	HMI and CPU	1	GE	Speedtronic Mark-V	
C3	Common Auxiliaries				
C301	Fuel oil forwarding pumps and associated piping, valves, from isolating valve	2 pumps	Alstom	–	
C302	Fuel gas supply system including	1	–	piping, valves, drain collectors, cyclone separators, etc. from OGC terminal point	
C303	Firefighting piping & valves from isolating valve	3 lot	–	–	
Phase 4 (GT 8)					
M4	Mechanical				
M401	Gas Turbine Package: i. GT and Compressor, rotors, ii. atomizing system, combustion system, IGV, Jacking oil system, Hydraulic oil system, Lube oil system, iii. startup motor & system, iv. GT compartment heating and ventilation system, v. Acoustic enclosure	1	GE / PG 9171(E)	Rated Output: 103 MW Guaranteed Output: 93 MW ⁴ demonstrated at DCC test in 2021. Approx. Weight – 350 MT	







⁴ At reference conditions 50 deg C, pressure 1005 mbar


Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
M402	Air Inlet Filters plenum assembly, pulse cleaning system	1	GE	Pulse jet type, self-cleaning Approx. weight – 70 MT	
M403	Exhaust stack and Plenum	1	GE	Height: 25.2 Mtr Approx. weight.: 70 MT	
M404	Cooling water system	1	GE	Approx. weight – 7 MT	
E4	Electrical				
E401	Generator package: consisting of Generator rotor, stator, Exciter	1	BHEL /TARI 1080-36 P/ 2000	117 MVA, 93.6 MW (50 deg C) 11KV, 0.8 PF, air cooled, 3000 rpm, 50 Hz. Approx. Weight: 220 MT	
E402	Generator Transformer	1	BHEL	125.4 MVA, 11 KV /138.6 KV Approx. Weight: 150 MT	
E403	Unit Auxiliary Transformer	1	Voltamp Transformers Oman LLC.	1 X 1000 KVA 11 KV/0.433 KV, ONAN type Approx. Weight: 4 MT	
E404	Not used				
E405	Local Control Room (LCR)	1		LV MCCs (2 Nos), relay panel & IRP panel, DC charger and battery system, Split AC system Approx. Weight: 2 MT	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
E406	Cables for Phase 4 equipment: i.132 KV ii.6.6 KV iii.415 V iv.LV control cables	Lot	–	–	
E407	Bus duct	1	Prayog Electrcials	3 phase isolated,11 KVA, 10000 A, 50 Hz Approx. Weight: 2 MT	
E408	CT PT components	1 x 3	–	12000/√3:120/√3:120/√3, 100 VA	
I4	Control & Instrumentation				
I401	HMI and CPU	1	GE	Speedtronic Mark-V	
C4	Common Auxiliaries				
C401	Fuel oil forwarding pumps	2 pumps and associated piping, valves, from isolating valve	Alstom		
C402	Fuel gas supply system including	1	–	piping, valves, drain collectors, cyclone separators, etc. from OGC terminal point	
C403	Firefighting piping & valves from isolating valve	1 lot	Nijhuis	–	
CP	Common Plant Auxiliary				
CPE01	6.6 KV EDG system	1 Lot EDG, AMF system, diesel day tank, CO2 firefighting system and associated piping etc,	DALE 8000 Ruston Diesel,	2.84 MVA. Approx. weight.: 50 MT	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
CPE02	6.6 KV switchgear	1 Lot	-	-	
CPE03	Station transformer (Essential)	2		1200 KVA, 6.6 KV/0.433 KV Approximate weight: 3 MT	
CPE04	Station aux transformer (NE)	2		1700 KVA, 6.6KV/0.433 KV Approximate weight: 4MT	
CPE05	Station aux transformer for U4 to U8 (NE)	2	-	1000 KVA, 6.6KV/0.433 KV Approximate weight: 3 MT	
CPE06	415 V switchgear/MCC	3	-	-	
CPE07	33/ 6.6 KV Station Transformer	2	Bonar Long	33/6.9 KV, 6 MVA, ONAN Approx. weight: 14 MT	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
CPE08	DC charger and battery system	1	-	-	
CPE09	AC UPS system (CCR) and battery for control system	1	IMV match	3 KVA, 230 V, single phase, 50 Hz. (2 hr backup battery system)	
CPE10	Lighting transformer and distribution boards	Lot	-	-	
CPI01	Control system	1 lot SCADA mimic panels 132 KV, 33 KV and 6.6 KV system	GE	-	
CPM01	Light distillate fuel oil storage tank	2	Tank 1: Capper Neil International Limited Tank 2: Sadelmi Cogepi Novara Workshop	Tank 1 capacity: 10554 m ³ Tank 2 capacity: 10000 m ³	
CPM02	Fuel gas system common header pipe, valves, and other components	-	-	-	

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
CPM03	Fire water system:	<p>Fire tanks: 2</p> <p>Diesel driven pump: 1</p> <p>Electric motor driven pump: 1</p> <p>Electric motor jockey pump: 2</p>	<p>Fire tanks: Oman Steel Co. LLC</p> <p>Diesel driven & Electric pumps: NIJHUIS</p> <p>Electric motor jockey: GRUNDFOS</p>	<p>Tanks capacities for tank 1 and 2: 340 m³</p> <p>Capacities: Diesel driven pump: 472 m³/hr</p> <p>Electric motor driven pump: 472 m³/hr</p> <p>Electric motor jockey pump: 0.5 to 3 m³/hr</p> <p>Hydrants, foam system, deluge assemblies, pipings & valves, etc.</p>	 
CPM04	DM water system:	DM water tank: 3, Dosing pumps,	-	-	
CPM05	Compressed air system:	2 Nos. with Compressors Driers Receiver tanks Pipings	-	-	
CPM06	Inventory and Spare parts			Refer Appendix 5	
CPM07	Workshop Equipments	Lot		Mechanical workshop: Lathe Machine, Cutter & Sheet Bander,	 

Item code	Equipment Name	Qty	Make/ Model	Specifications	Photo
CPM08	Gantry crane	-	-	Overhead crane above all GTs: Capacity 60 T	
CPM09	Security system: Around fencing and entrance	Lot	-	CCTV system, Bullet camera, Turnstile, Access control system, Biometric attendance system	
CPM10	Telephone system	-	-	-	

1100.1.1 Al Rusail Site Block Diagram

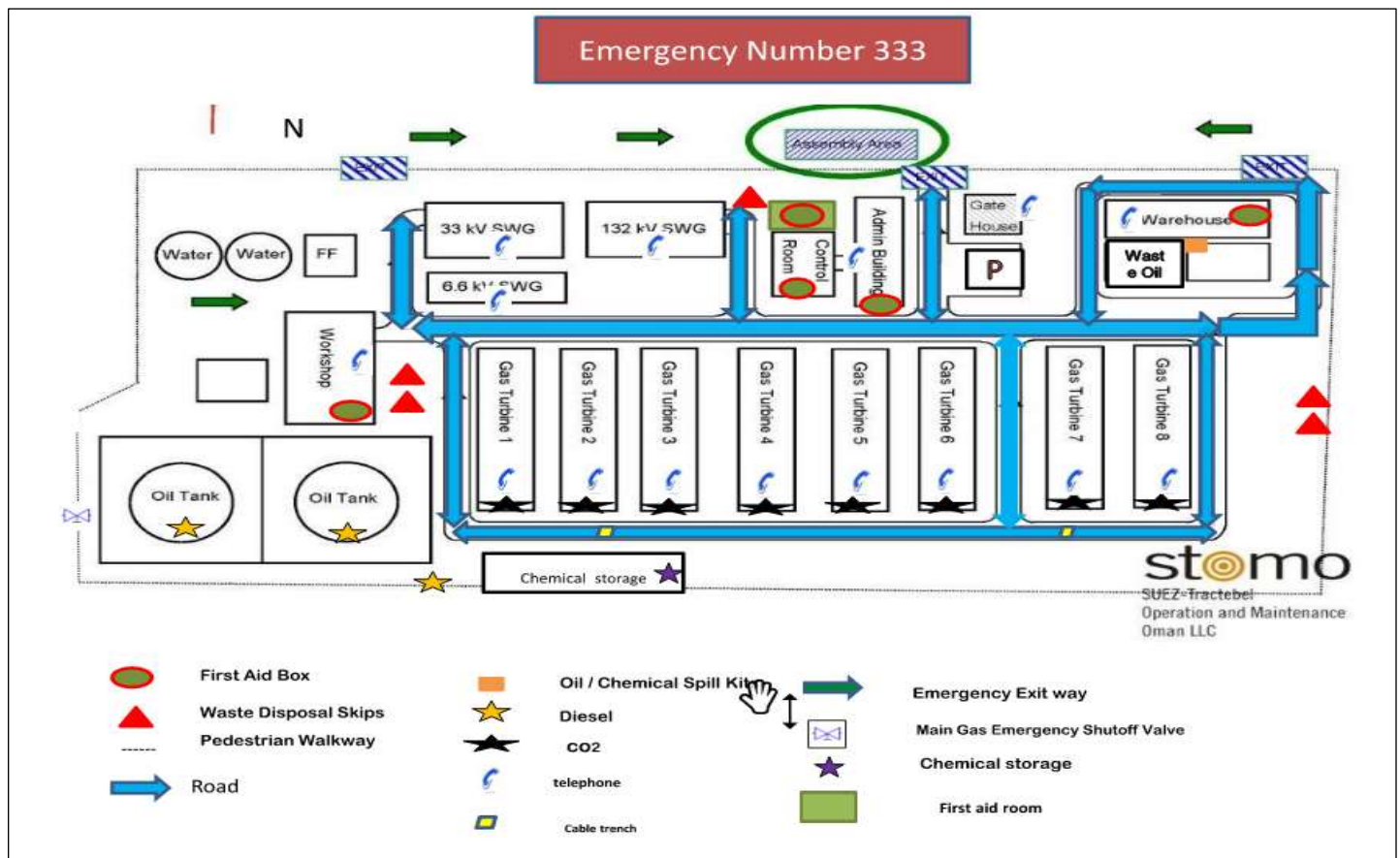


Figure 2: Al Rusail Site Block Diagram

1100.2 Payment Terms and Conditions

1100.2.1 General

The bidder is required to complete and sign off on the Bid Price Form, indicating:

- The equipment being bid on
- The bid price for each equipment
- The total bid price, including VAT; and,
- A bid bond Bank Payment Guarantee valid for at least 3 months, in the amount of 5% of the Bid Price plus 5%VAT.

1100.2.2 Other Terms and Conditions

Payment must be made in either Omani Rials or in United States Dollars.

Once the successful bidder is notified that their submitted bid as recorded in the Bid Price Form has been accepted, the 10% paid along with the bid form will serve as a performance bond. The 40% of the bid price plus VAT must be received within five (5) business days of being notified of the successful bid; otherwise, the down payment is forfeited, and the equipment will be offered to the next preferred bidder under the same terms and conditions.

The security deposit (10% plus VAT) is refundable for the successful bidder three (3) months following removal of all equipment from the Plant Site.

An additional payment (40% plus VAT) is non-refundable once the successful bidder has made such payment.

The successful bidder must pay the balance of 60% of the offer price plus VAT before removing the equipment from site.

All equipment is sold on an "as is where is" bases, and the Company makes no warranties or guarantees whatsoever regarding the operability of the equipment being purchased.

The successful bidder(s) is responsible for removing the equipment in a safe and environmentally responsible manner, meeting all Omani laws and regulations, without exception.

Any damage done to the equipment while being removed from site by the bidder or their appointed contractor is the sole responsibility of the bidder, and the Company reserves the right to demand payment from the bidder to repair or make whole any damage done to the Plant before the equipment can be removed from site.

All purchased equipment must be removed from site within three (3) months of the successful bidder providing 60% of the bid price unless the Company and the successful buyer mutually agree to an extension of this time.

The 10% security deposit received from unsuccessful bidders will be returned once the successful bidder(s) has provided the 40% payment referred to in this section.

Prior to removal of the equipment from site, the Company will provide the successful bidder with a suitable "Purchase Sales Agreement"/ "Bill of Sales" at the appropriate time.

1100.2.3 Local Taxes, Duties and All Other Taxes

The successful bidder(s) shall be responsible for the payment of all taxes and any levies that apply to the purchase, removal and transport of the equipment from the Plant site. Other than remitting VAT, the Company shall not be responsible for any payment obligations whatsoever.

1100.2.4 Visas and Permits

The successful bidder(s) shall be responsible for obtaining all visas and permits required to remove the purchased equipment from the Plant site and transport it to their final destination.

1100.2.5 Validity of the Bid Price Form

The offer shall remain valid for a period of sixty (60) days from the date of receipt of the Bid Price Form.

1100.2.6 Insurance Cover

The successful bidder(s) shall provide to the Company after award of the equipment, a valid Certificate of Insurance relating to the equipment being purchased.

23000.0 Bid Submittals

Bidder shall furnish following information as a minimum with the technical bid proposal (pre-award) in following prescribed schedule formats

S.N.	Submittal Item	Yes/No
Schedule A	Intention to Bid	
Schedule B	Intention to Visit the Plant	
Schedule C	Bid Price Form & Price break up for Part A	
Schedule D	Bid Price Form & Price break up for Part B	
Schedule E	Proforma for Pre-Bid Queries	
Schedule F	Schedule of Technical Deviation	
Schedule G	Schedule of Commercial Deviation	
Schedule H	Technical Approach & Methodology for Decommissioning & Dismantling	
Schedule I	Tools & Plants Mobilization Plan	
Schedule J	Proforma of Bank Guarantee for Bid Security/Bid bond	
Schedule K	Undertaking on Price Validity Period	
Schedule L	Declaration by the Bidder of Compliance with Tender Document	
Schedule M	List of Qualification and Experience of executing similar works	

SCHEDULE A INTENTION TO BID

The potential bidder shall submit the following completed form to the Company indicating their interests in purchasing all or certain equipment at the Plant.

Name:		Date:																					
Address in Oman:		Contact Person:																					
Address outside of Oman		Country:																					
Contract Details:	Email Address (es):																						
	Phone Number:	() –	() –																				
Equipment Interests:	Purchaser's interest for Equipment/systems to be provided separately for Part A and Part B Equipment / systems in the below format: Part A Equipment / systems (Refer Table 4 of Tender document for Part A Equipment/systems.																						
	<table border="1"> <thead> <tr> <th>Item code</th> <th>Description</th> <th>Quantity</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Item code	Description	Quantity	Remarks																
Item code	Description	Quantity	Remarks																				
Part B Equipment / systems (Refer Table 5 of Tender document for Part B Equipment/systems.																							
<table border="1"> <thead> <tr> <th>Item code</th> <th>Description</th> <th>Quantity</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Item code	Description	Quantity	Remarks																	
Item code	Description	Quantity	Remarks																				
Authorized Signature:																							

Email to the following addresses: Anupam.kunwar@smnpower.com, mohammed.alrawahi@smnpower.com, abdullah.alnaimi@smnpower.com, aisha.albalushi@smnpower.com

SCHEDULE B INTENTION TO VISIT THE PLANT

Please submit the following form indicating your intention to visit the site along with the number and names of the individuals planning to attend. Those individuals attending the Plant site visit must participate in a short induction process that covers health, safety, security, environmental matters regarding the Plant. Suitable Personal Protection Equipment (“PPE”) equipment will be provided at the Plant, though those participating in the site visit may wish to use their own.

Number of Participants:		Company Name:	
Names of Participants:	1.		
	2.		
	3.		
Preferred Date(s):			
	Name:		
	Phone Number:		
	Email:		

Email Form to: Anupam.kunwar@smnpower.com, mohammed.alrawahi@smnpower.com, abdullah.alnaimi@smnpower.com, aisha.albalushi@smnpower.com

SCHEDULE C BID PRICE FOR PART A SELL OFF

This Bid Price Form which follows must be submitted by the due date stated in Section 1000.4.2 and as may be revised as per Addenda issued to potential bidders, with details of equipment for which bidder is interested and their respective price break ups. Details of equipment which are listed for Phase A sell off can be found in Table 4

Please provide in the excel format **Schedule C Bid Price Form for Part A Sell off.xls** provided along with the bid.

SCHEDULE D BID PRICE FOR PART B SELL OFF

This Bid Price Form which follows must be submitted by the due date stated in (Section 1000.4.2) and as may be revised as per Addenda issued to potential bidders, with details of equipment for which bidder is interested and their respective price break ups. Details of equipment which are listed for Part B sell off can be found in Table 5

Please provide in the excel format **Schedule D Bid Price Form for Part B Sell off.xls** provided along with the bid.

SCHEDULE E PROFORMA FOR PREBID QUERIES

Proposal No:

Date:

Sl. No.	Reference of Bidding Document				Bidder's Query
	Main Section No.	Page No.	Sub section No.	Subject	

Place:

(Signature)

Date:

(Printed Name)

(Designation)

(Common Seal)

SCHEDULE F SCHEDULE OF TECHNICAL DEVIATIONS

1. Deviations to Bidding Document, if any, shall be indicated only in this schedule.
2. Deviations listed elsewhere shall be ignored.
3. No printed terms & conditions shall be considered.

Sl. No.	Section	Page No.	Subsection No.	Description as specified	Deviation taken

Place:

(Signature)

Date:

(Printed Name)

(Designation)

(Common Seal)

SCHEDULE G SCHEDULE OF COMMERCIAL DEVIATIONS

1. Deviations to Bidding Document, if any, shall be indicated only in this schedule.
2. Deviations listed elsewhere shall be ignored.
3. No printed terms & conditions shall be considered.

Sl. No.	Section	Page No.	Subsection No.	Description as specified	Deviation taken

Place:

(Signature)

Date:

(Printed Name)

(Designation)

(Common Seal)

**SCHEDULE H TECHNICAL APPROACH AND METHODOLOGY OF DECOMMISSIONING AND
DISMANTLING**

SCHEDULE I TOOLS AND PLANT MOBILIZATION PLAN

SCHEDULE J PROFORMA FOR BANK GUARANTEE FOR BID SECURITY/BID BOND

SCHEDULE K UNDERTAKING ON PRICE VALIDITY PERIOD

SCHEDULE L DECLARATION BY THE BIDDER OF COMPLIANCE WITH TENDER DOCUMENT

SCHEDULE M LIST OF QUALIFICATION AND EXPERIENCE

Appendices

The following appendices will be provided to interested bidders who will return Schedule A within seven (7) working days after the receipt of this Tender Document.

Appendix 1: Company's HSE Policy

Appendix 2: Site Inspection Report

Appendix 3: Scope Responsibility Matrix for Decommissioning and Dismantling

Appendix 4: Dismantling Guidelines

Appendix 5: List of Inventory & Spare parts

APPENDIX 1: COMPANY'S HSE POLICY

Refer to the Appendix 1 document provided separately

APPENDIX 2: SITE INSPECTION REPORT

(To be issued to interested bidders)

APPENDIX 3: SCOPE RESPONSIBILITY MATRIX FOR DECOMMISSIONING AND DISMANTLING

The following tables provide the list of major activities and division of responsibility between the Company and the Bidder for Decommissioning and Dismantling of Equipment/systems.

Scope Responsibility Matrix for Decommissioning

S. No.	Activity	Division of Responsibility		Remarks
		Company	Bidder	
1	Identify 6.6kV, 33kV, and 132kV switchgear that powers each individual gas turbines (CTG's), cooling towers and auxiliary equipment for each Gas Turbine. Lock Out - Tag Out (LOTO) switchgear to each respective unit and auxiliaries being disassembled and remove breakers from cabinets.	X	X	Staged disassembly of common components until Units 7 & 8 disassembly is complete. Bidder to implement their LOTO system post Company LOTO. Bidder to share detailed plan and apply for permit.
2	Isolate and air gap GSU Transformers high voltage output line to 132kV switch yard (breaker QE3-191B - 891B).	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete
3	Isolate and air gap individual CTG's from cross feed power at 33kV switchgear.	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete
4	Isolate and air gap individual CTG's from back feed to 33kV switchgear from Breakers 1T5 to 4T5 and Bus Coupler 1 and 2.	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete
5	Remove oil & lubricants(to the extent possible) from rotating equipment, tanks and storage tanks.	X	X	Task is similar for Phase A and Part B Dismantling. The bidder shall consider residual oil & lubricants draining, disposal as per applicable HSE norms.
6	Perform Regulated materials survey to identify hazardous materials. Regulated Inspection Report to include: description of regulated materials found, location, estimated quantities.	X	X	Survey can be conducted at the same time for Phase A and B along with qualified bidder
7	Oil filled Transformers (GSU, UAT, Unit, Station and Essential and Non-essential and others) shall be drained to minimum levels prior to removal. Transformer oil shall be appropriately disposed of by Bidder	X	X	Task is similar for Phase A and Part B Dismantling. The bidder shall consider residual oil draining, disposal as per applicable HSE norms.
8	Isolate, purge, and air gap Main CTG fuel oil supply pipe to each CTG branch connection at first isolated valve downstream of the branch connection to the CTG.	X	X	Staged disassembly of common components until Units 7 & 8 disassembly is complete The bidder shall consider residual oil draining, disposal as per applicable HSE norms. Bidder to perform required tests to ensure dryness of lines prior to dismantling
9	Isolate, purge, and air gap Main CTG fuel gas supply pipe to each CTG branch connection at first isolated valve downstream of the branch connection to the CTG.	X		Task is similar for Phase A and Part B Dismantling. Bidder to perform required tests to ensure dryness of lines prior to dismantling
10	Drain fuel oil tanks. Bidder shall consider for residual fuel oil draining, disposal as per applicable HSE norms.	X	X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
11	Raw, Service and Potable water piping running to plant buildings, facilities and individual GTG equipment should be isolated and tagged out.	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete

S. No.	Activity	Division of Responsibility		Remarks
		Company	Bidder	
12	Compressed air piping running to plant buildings, facilities and individual GTG equipment should be isolated and tagged out.	X	X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
13	Fire Protection piping running to plant buildings, facilities and individual GTG equipment should be isolated and tagged out when disassembly begins.	X	X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
14	Fire protection main header, hydrants, and supply to Units 7 & 8 are to remain in service during Phase A dismantling.	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete
15	Fire protection main header and hydrants remain in service during Part B dismantling.	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete
16	Secure revised Environmental permits for modification of power plant capacity and dismantlement	X	X	Task is similar for Phase A and Part B Dismantling
17	Secure Construction permits for dismantlement		X	Task is similar for Phase A and Part B Dismantling
18	Separate and mark Unit 7 & 8 Spare Parts from Units 1 - 6 spare parts.	X		Task is similar for Phase A and Part B Dismantling
19	Separate Units 1 - 6 Controls and Communications from Units 7 & 8	X		Staged disassembly of common components until Units 7 & 8 disassembly is complete

Scope Responsibility Matrix for Dismantling

S.No.	Activity	Division of Responsibility		Remarks
		Owner	Bidder	
1	Bidder is responsible for understanding Combustion Turbine Generator (CTG) and auxiliary equipment such that they are responsible for acquiring information and expertise to determine appropriate access, separation, and removal of the equipment purchased. This includes selection and use of lifting equipment, lifting bars, tools, and other apparatuses required for removal of equipment. Bidder shall be responsible for providing foreign object debris (FOD) protection to the equipment they have purchased and removed. Pipes and conduits remaining shall be properly supported and capped with similar size and type material. Cap procedure shall be approved by RCP .		X	Task is similar for Part A and Phase B Dismantling
2	Remove residual oil lubricants from rotating equipment, tanks and storage tanks. Responsible for spill clean up and remediation of removed and remaining equipment. Responsible for residual oil disposal at Company approved disposal facility.		X	Task is similar for Part A and Part B Dismantling
3	Prior to commencing removal of equipment verify power is shutoff to all equipment		X	Task is similar for Part A and Part B Dismantling
4	All pipes that are separated either by flanged connection or mechanically cut shall be purged and free of residual fluids. Removed materials shall be properly contained and disposed by Bidder.		X	Task is similar for Part A and Part B Dismantling
5	Underground Pipe Chase & Conduits (duct banks) shall not be removed. Piping and electrical cables removed from underground duct bank and pipe chases shall have the duct bank and pipe chase covers plates and grating returned to original position after completion of work.		X	Task is similar for Part A and Part B Dismantling
6	Pipes cut above ground and abandoned underground shall be drained and permanently capped with similar size and type material. Cap procedure shall be submitted and approved by Owner prior to cutting.		X	Task is similar for Part A and Part B Dismantling
7	All equipment removed will be removed down to the supporting concrete slab, curb or pier. Anchor bolts will be removed flush to top of concrete - base plate grout pads shall be removed.		X	Task is similar for Part A and Part B Dismantling
8	All enclosures, covers and weather protection structures that have been disassembled or demolished to access bidders equipment shall be disposed of off-site at a Company approved waste disposal site.		X	Task is similar for Part A and Part B Dismantling
9	Heavy equipment lifts will be required to submit a lift plan for review 5 working days prior to the lift.		X	Task is similar for Part A and Part B Dismantling
10	Electrical equipment such as switch gear, MCC's and motors shall have their power cables and conduits cut and removed back to grade level.		X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
11	Area light stanchions shall remain in place and not disturbed.		X	Task is similar for Part A and Part B Dismantling
12	Areas around removed equipment and site shall be clean of dismantling debris, oil spills, trash, trash containers and construction debris, scrape steel and other materials generated		X	Task is similar for Part A and Part B Dismantling

S.No.	Activity	Division of Responsibility		Remarks
		Owner	Bidder	
	from the bidders dismantling process prior to demobilizing.			
13	Structural steel abandoned after equipment removal shall be properly supported. Abandoned structural steel will not leave access to open platforms and walkways where there could be a fall hazard.		X	Task is similar for Part A and Part B Dismantling
14	Generator to GSU Bus Ducts abandoned in place shall be capped and sealed at all openings. No loose components of the bus duct shall remain. The abandoned portion of the buss duct shall be structurally supported to prevent collapse.		X	Task is similar for Part A and Part B Dismantling
15	CTG Gantry crane is common to the eight (8) CTG's. The capacity is 60 tons. It is the bidders responsibility to confirm the crane is capable of lifting loads in which they intend to use the gantry crane.		X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
17	If the gantry crane is disassembled to make access to the portion of the bidders purchased equipment, Units 7 & 8 portion of the crane shall remain in operation. Bidder is required to make provisions for power, structural stability and required end stops at the separation point of the rails.		X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
18	The size and shape and weight of disassembled components must meet land and water transportation regulation requirements.		X	Task is similar for Part A and Part B Dismantling
19	Transportation permits and services are the responsibility of the bidder		X	Task is similar for Part A and Part B Dismantling
20	Spare parts removal		X	Task is similar for Part A and Part B Dismantling
21	Fire protection system including electric and diesel pumps, motors, controls and tanks will be removed after completion of Units 7 & 8 equipment.		X	Staged disassembly of common components until Units 7 & 8 disassembly is complete
22	Perform proper spill prevention, collection, and mitigation procedures.		X	Task is similar for Part A and Part B Dismantling
23	Provide proper storm water run off collection		X	Task is similar for Part A and Part B Dismantling
24	Obtaining all applicable permits (Safety,Regulatory) as applicable for performing the tasks		X	Task is similar for Part A and Part B Dismantling
25	Logistics study for transport of Machinery and Equipment to and from plant		X	Task is similar for Part A and Part B Dismantling
26	Area hard barrication of Part A & B		X	Task is similar for Part A and Part B Dismantling
27	Saggeration, storage, Handling and Disposal of Hazardous material through approved agency		X	Task is similar for Part A and Part B Dismantling
28	All indirect and direct costs against e.g machinery, manpower, tools and tackles required, Consumables, Gas, power, water for completing the dismantling tasks		X	Task is similar for Part A and Part B Dismantling
29	Area for setting up Temporary facilities for performing dismantling tasks	X		Task is similar for Part A and Part B Dismantling

S.No.	Activity	Division of Responsibility		Remarks
		Owner	Bidder	
30	Area development as required inside plant premises for dismantling and reconditioning to the initial		X	Task is similar for Part A and Part B Dismantling
31	Security of the material dismantled		X	
32	Temporary supports and material as required for storage and isolation of equipment		X	

APPENDIX 4: DISMANTLING GUIDELINES

(To be issued to interested bidders)

APPENDIX 5: LIST OF INVENTORY AND SPARE PARTS

(To be issued to interested bidders)