

TENDER DOCUMENT
FOR
SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING OF GAS GENERATOR SET
at
C-5/30, SAFDARJUNG DEVELOPMENT AREA,
NEW DELHI-110016.

Tender No. IIBF/GG/NIT-01/ 25-26

OFFICE INVITING BID

INDIAN INSTITUTE OF BANKING AND FINANCE

Zonal Head
Indian Institute of Banking & Finance
Professional Development Centre – NZ
C-5/30, Safdarjung Development
Area, New Delhi- 110016

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TENDER NOTICE

Tender No. IIBF/GG/NIT-01/ 25-26

ABOUT IIBF

Established in 1928 as a Company, Indian Institute of Banking & Finance (IIBF), is a professional body of banks, financial institutions and their employees in India with a Mission to develop professionally qualified and competent bankers and finance professionals primarily through a process of education, training, examination, consultancy/counseling and continuing professional development programs. Since inception, the Institute has awarded several banking and finance qualifications, viz., JAIIB, CAIIB, Diplomas and Certificates in specialized areas and helped the practitioners of banking and finance to sustain their professionalism through continuing professional development programs.

Indian Institute of Banking & Finance invites bids under item rate basis from eligible contractors / Agencies for the work mentioned below, meeting following **eligibility criteria**.

- The bidder must be in the business of supplying and maintenance of same category equipment for at least the last three years. The bidder shall upload relevant documentary proof regarding the same along with the technical bid.
- The bidder or its OEM should have supplied the same or similar category products for at least Rs.50 lakhs, in the last two years before the bid opening date to any State/Central Government department/agency or any Government company/PSU Banks & Financial Institutions or any State/Central Government PSU. The bidder must attach at least one supply order along with Technical & financial bid.
- In case the bidder is not the OEM of the equipment, the bidder must be authorized to bid for the equipment by the OEM. Bidder shall upload an authorization letter from the OEM, along with the technical bid.
- The OEM/Bidder should have a well-staffed and functional support center in the State. The bidder will have to submit supporting documents regarding the same with the bid.

The bids of those bidders who do not meet the above parameters will not be considered.

1.	Name of Work	:	"Supply, Installation, testing and commissioning of Gas Generator Set at C-5/30, Safdarjung Development Area, New Delhi-110016.
2.	Estimated Cost		Rs. 45,00,000/- Rupees Forty-Five Lakh Only)
3.	Earnest Money Deposit (1% of Estimated cost)	:	Rs. 45,000/- Rupees Forty-five Thousand Only) by crossed Bank Draft / Banker's Cheque drawn in favour of Indian Institute of Banking & Finance payable at New Delhi. (To be enclosed in a sealed envelope as a part of Technical Bid).
4.	Initial Security Deposit	:	2% of the accepted value of the tender including EMD.
5.	Participation Fees	:	A non-refundable amount of Rs. 1000/- (Rupees One Thousand only) in the form of DD / Banker's Cheque in favour of Indian Institute of Banking & Finance Payable at New Delhi
6.	Issue of Tender documents		From 26.6.2025 to 19.7.2025 Tender to be downloaded from the website www.iibf.org.in . No hard copy shall be issued.
7.	Dates for Site Inspection		05.07.2025 @ 11.00 am to 4.00 pm
8.	Submission of written requests for any Clarifications from prospective bidders		TWO DAYS BEFORE VISIT i.e. up to 03.07.2025

9.	Pre-Bid Meeting		14.07.2025@ 11.00 AM at Indian Institute of Banking & Finance, Professional Development Centre - NZ, C-5/30, Safdarjung Development Area, New Delhi-110016.
10.	Last date and time of receipt of Tenders	:	19/07/2025 up to 3.00 PM
11.	Address at which the Tenders are to be submitted	:	Zonal Head, Indian Institute of Banking & Finance, Professional Development Centre - NZ, C-5/30, Safdarjung Development Area, New Delhi-110016.
12.	Date and time of opening of Tenders (Technical Bid only)	:	19/07/2025 at 4.00 PM
13.	Place of opening Tenders	:	Indian Institute of Banking & Finance, Professional Development Centre - NZ, C-5/30, Safdarjung Development Area, New Delhi-110016.
14.	Defects Liability Period	:	12 months from the date of handing over of the project to the satisfaction of IIBF
15.	Validity of Offer	:	120 days from the date of opening the Tenders.
16.	Liquidated Damages	:	At the rate of 0.5% of the Contract Value per week which is subject to a maximum of 5% of the accepted Contract Value.

TEHCNICAL SPECIFICATION FOR Gas Generator Sets

1.1 INTENT OF SPECIFICATION:

This specification covers the design, manufacture, assembly, shop testing, packing, dispatch, transportation supply, erection, testing, commissioning, performance and guarantee testing of **Gas Gen-Sets**, complete in all respects with all equipment, fitting and accessories for efficient and trouble-free operation as specified here under.

1.2 SCOPE OF WORK:

1.2.1 Scope of Supply & Services:

General Scope of work shall include design, manufacture, shop testing, packing, dispatch, and transportation to site, supply, erection, testing and commissioning of the Kirloskar/Cummins/TATA SILENT GENSET, ENGINE; MODEL: AS PER MANUFACTURE'S MODEL NO. CYLINDERS: 8, COOLING: Water/AIR, ENGINE RATING: HP@1500RPM, PG OR IND: PG, KVA RATING: 125, VOLTAGE: 415, FREQUENCY: 50, PHASE: 3, POWER FACTOR: 0.8

General

- Preparing all related shop drawings for approval from client/consultant and statutory bodies for water cooling system, exhaust system and synchronizing system with GG layout.
- Obtaining approval of the installation of Gas Generators by the Electrical Inspectorate and Pollution Control bodies and any other statutory bodies.
- Minor civil works like chasing, grouting etc. for execution of jobs.
- Carrying out performance and guarantee test including making arrangements for loads etc. as required.
- The Gas Generator Set shall be outdoor type complete with suitable acoustic enclosure, to limit noise level to permissible limits of CPCB norms. The set shall consist of Gas Engine coupled to suitable alternator having self, brushless type / static excitation system and include all necessary accessories and control panel as specified and as required.
- The engine and generator shall be mounted on an integral robust fabricated steel frame with anti-vibration mountings pads. Common foundation will be provided. Required set of foundation bolts, nuts and washer etc shall be supplied by the bidder.
- The generator set supplied must be factory tested as per relevant codes and as mentioned in this technical specification. Bidder shall also submit the TPI test reports for all the tests carried out as per the relevant codes/standards and this technical specification.
- The generator set shall be capable of taking the block loading in single step.
- The generator shall have vibration isolation arrangement.
- The generator shall have advanced Digital Controller for the engine and alternator combine with LED display unit for display of system parameters and fault indication of both the engine / alternator.
- The generator set shall have cooling system rated for 500C ambient temperature.
- The generator shall have a test certificate confirming the generator load parameters.
- The generator shall have auto start feature with programmed cranking cycles.
- The generator shall have package mounted Line Circuit breaker for protection.
- Lifting lugs must be provided for safe handling and the gas generator set shall be mounted on the iron base frame which shall be grouted on the concrete foundation. Preparation of foundation shall be to bidder's scope.
- The generator package shall have a gas detection alarm sensor fitted in flame proof box with controller and alarm mounted in separate compartment in the acoustic enclosure as per guidelines of the statutory agency.
- The generator set shall have a spark arrester fitted on it.
- All internal piping and the piping required for the connection of Gas Generator inlet, auxiliaries, meter etc. with the Clients tap- off provided at a distance as per SOR up-to the foundation shall be to the contractor scope.

- The material used for station piping shall be Mild Steel, for connection between IGL's tap-off point and Gas Genset inlet /metering device.
- The laying of earthing strips from the equipment, to ensure safety of equipment, to the earthing pit provided by owner as per the requirement shall be to bidder's scope. The complete earthing pit arrangement with electrode / plate earthing shall be provided by owner. The earthing shall be done by GI strip of 50 X 6 mm. The strip laid shall be made properly covered with insulating material, this shall be in bidder's scope.
- Supply, installation, testing and commissioning of gas genset electric panel including supply of all electric/control cables and proper fixing of panel on wall. If it is required to change the location of existing panels of electric room, to fix the genset panel, the work will be in the scope of supplier.
- All the tools & tackles, manpower, material required to complete the job till starting of gas genset is in the scope of supplier.
- Gas detector along with suitable alarm system shall be installed in gas genset.

➤ **Gas Engine: -**

(1) The generator set shall be powered by proven field tested 4 strokes, 6-cylinder, water cooled Gas Engine suitable for operating on CNG with a power output of at-least 5% more than the max. power required by the alternator along with all standard engine components and shall have following features:

- a) Internal Exhaust System with approved Spark Arrestor.
- b) The Gas Engine shall be suitable for block loading in one step and supplied with Electronic Isochronous Governor for optimum fuel, spark performance and frequency regulation of $\pm 0.5\%$.
- c) Residential grade silencer.
- d) Battery Charging Alternator of suitable rating.
- e) 12 V starter motor.
- f) High engine temperature safety & shutdown.
- g) Low Lube Oil Pressure safety & shutdown.
- h) Dry type air filter.
- i) Cartridge type lubrication oil filter
- j) The Generator supplier shall submit list of successfully completed SITC work of at least 2 no. of similar specification and capacity Gas Gensets in the last Five (5) year with one year completed AMC/warranty period.
- k) The generator set shall have a gas train to operate at a range of gas pressure @4.0 KG/CM². Any facility required for reduction or increase in the pr. from the average pr. range mentioned in SOR for the operation of Gas Generator shall be to the contractor scope.
- l) The contractor shall provide a metering device at the inlet of Gas Genset for metering the Gas used for operation.
- m) The Gas Engine shall be supplied with high silicone content or other improved material pistons for durability/long life. Expected engine life without any major maintenance shall be indicated by the bidders.

(2) LUBE OIL SYSTEM: - Automatic pressure lubrication system shall be provided. Bidder shall also indicate the specific lube oil consumption and capacity of the lube oil tank.

(3) ENGINE STARTING SYSTEM: - Starting of gas engine shall be by electrical starting system. Electrical Starting System shall comprise of a starter motor, batteries, battery charger and all the necessary instruments and accessories. Batteries and battery charger and associated panel, cabling, supporting structure etc shall be supplied by the bidder.

(4) Battery Make shall be **AMCO, EXIDE, HBLNIFE, AMARA RAJA** or any other RE KNOWNED ISI marked Battery.

(5) AIR INTAKE AND EXHAUST SYSTEM; - Air intake filter and silencer shall be provided. The exhaust system shall consist of an exhaust gas silencer, necessary piping, adapters, accessories etc.

(6) GOVERNING SYSTEM: - The Gas engine should have Electronic Isochronous governing.

Governor shall be provided for keeping constant speed within permissible limits with variable load. The governor shall be electronic type. It shall be capable of operating on isochronous mode i.e. the speed of the engine (frequency of the generator set) shall remain constant irrespective of the load on the Gas Generator set up-to 100% capacity. RPM indicator and tachometer generator to trip the Gas Generator set during over speed shall also be provided.

➤ **DRAWINGS**

Bidder shall submit 4 sets in hard print and 1 set in soft storage device, of following drawings:

- a. Outline dimensional drawings with general arrangement.
- b. Piping flow sheets and piping layout.
- c. Electrical wiring and schematic diagram along with cable schedule and general arrangement drawing for control panel.
- d. Foundation drawings.
- e. Fuel oil system with instrumentation and control with write-up.
- f. Lube oil system with instrumentation and control with write-up.
- g. Governor system and voltage regulator write-up.
- h. G.G. set instrumentation and control system with write-up.
- i. The bidder shall also provide 4 sets in hard print and 1 set in soft storage device, of installation, operation, maintenance and major overhauling instruction manuals before Field Performance test and acceptance of material at site.

➤ **Tests**

Following tests shall be carried out for the Gas Generator set.

- ✓ Routine tests for engine like fuel consumption test at 100% & 50% load for 12 hrs. each, 24 hours running test at 75% load, etc. as per relevant Indian /International Standards.
- ✓ The load requirement for carrying out the tests or any other requirement at site for carrying out the inspection / tests shall be provided by bidder on its own cost & risk.
- ✓ Routine tests for alternator, as per latest IS-4722 or other applicable Indian Standards, like Insulation Resistance and High Voltage Test etc.
- ✓ 8 hours run test with the set completely assembled at the bidder's test bed / foundation at site with full load. All parameters must be recorded in presence of owner's representative.
- ✓ Bidder shall perform the following tests at site to the satisfaction of owner, if required:
 - a. Automatic starting up and interlock
 - b. Governor response
 - c. Voltage regulator response
 - d. Speed/voltage droop setting for parallel operation as specified.
- ✓ Bidder shall submit copies of routine and type test certificates for approval in required sets before dispatch.

➤ **Wiring**

All control wiring inside the controller shall be carried out with 2.5 sq.mm 1100/650 V grade PVC insulated copper wires.

➤ **Performance Requirements**

- ✓ The unit shall be capable of starting from cold condition.

- ✓ The unit shall be capable of a peak output of 100% of the rated output without exceeding permissible temperature limits and with a fairly clear visible exhaust.
- ✓ The unit shall operate up to 100% of the rated speed over the entire range of output without undue vibration and noise.
- ✓ The unit shall be in accordance with Standby Rating as per ISO-3046/1, BS and any other relevant codes/standards.
- ✓ Slam shut off valve or an alternate arrangement should be provided to shut off the supply of gas in case gas pressure exceeds the specified limits.
- ✓ The bidder shall provide gas meter of reputed make to monitor the gas consumption in SCM / Kg.
- ✓ Proper Filter shall be provided before Gas Metering unit to ensure protection against any foreign material.
- ✓ 1 no. ball valve shall be provided for isolating the gas supply from gas genset as and when required.
- ✓ The bidder may study the requirement at site and quote accordingly as per site conditions.
- ✓ Any item not mentioned and required for proper functioning of the Gas Genset/ gas train shall be provided free of cost by bidder.
- ✓ The Noida Authorities' gas pipeline pressure at tap-off point shall be 4.0 KG/CM². Bidder is required to arrange suitable gas train for pressure reduction (as per gen set requirement), gas filtering, slam shut/regulation, isolation valves, pressure gauges etc.
- ✓ The bidder would be required to submit test certificate of all the equipments in Gas Gensets / gas train.
- ✓ The filter should be hydro tested up-to 1.5 times of the line pressure at its installation point.
- ✓ The bidder would be required to submit calibration certificates of gas meter and pressure gauges and other installed instruments as applicable and submit the detailed P&ID & GAD.

➤ **Make:**

Kirloskar/Cummins/TATA/ OR ANY OTHER REKNOWNED BRAND

➤ **Digital Controller:**

- ✓ The Digital Controller shall be integrally mounted on generator set and shall have automatic start function with provision for manual Start / Stop / Reset and Auto options as per technical specs / features listed below:
 - a. The Digital Controller shall have self-diagnostics and test function.
 - b. Digital Controller shall have LED to display Engine Parameters like Running Hours, Crank Cycle status, Diagnostics.
 - c. There must be a provision of indicating the below listed parameters either via gauges or on LED display.
 - i) Lubricating Oil, Coolant & inlet Gas pressure gauge
 - ii) Lubricating Oil, Coolant & Gas temperature gauge
 - iii) Digital tachometer and hour meter
 - iv) Ammeter
 - v) Circuit Breaker
 - d. LED shall also display communication or there must be alarm system for faults like:
 - i) Filter Choke indicator
 - ii) High Engine Temperature,
 - iii) Low Oil Pressure
 - iv) Over Crank Safety
 - v) Over Speed

- vi) Over Frequency
- vii) Over Voltage
- viii) Under Frequency
- ix) Under Voltage
- x) High Battery Voltage
- xi) Low Battery Voltage
- xii) Auxiliary Fault.

e. Digital Controller shall preferably have a MMI membrane keypad for configuration and adjustment of features like:

- i. Password protection for Menu access
- ii. Voltage, Gain and Speed adjustments
- iii. System configurations like System Voltage, Phase and
- iv Frequency settings etc.

➤ **Alternator: (Power output @ 0.8 Power Factor)**

Technical Specifications of 125 kVA Gas Based Silent Generator

Water Cooled Engine and Generator Rating Offered –

EQUIPMENT: Kirloskar/Cummins/TATA SILENT GENSET, ENGINE; MODEL: AS PER MANUFACTURE'S MODEL NO. CYLINDERS: 8, COOLING: Water/AIR, ENGINE RATING: HP@1500RPM, PG OR IND: PG, KVA RATING: 125, VOLTAGE: 415, FREQUENCY: 50, PHASE: 3, POWER FACTOR: 0.8

At Standard Conditions *as per ISO 8528 & ISO 3046 –*

Generator Make	Engine Model	No. of Cylinder	Prime Rating	
			Generator kVA- 50 Hz, 3 Ph., 415 V, 3p.f. as per ISO8528	Engine bhp at 1500 rpm as per ISO3046
Kirloskar/ Cummins/ TATA	As per manufacture's Model No.	8	125 kVA	171bhp

Genset should not run below 50% load continuously.

Notes:

1. Engine ratings: Gross rated continuous output according to BS 5514, DIN 6271, ISO 3046/1 standards as appropriate.
2. Generating set ratings: Prime rating according to ISO 8528 standard.
3. For PRIME rating 10% overload permitted for 1 hour in every 12 hours consecutive run.
4. For stand-by ratings no further overload is permitted.
5. Ratings applicable at standard NTP conditions as mentioned above. For any further deterioration of site conditions, appropriate de-rating factor to be applied for output at site conditions.

Generator Specifications-

Voltage	415V
No. of Phases	3
Frequency	50 Hz
Speed	1500 RPM

Power Factor	0.8 power factor
Construction	<p>Generator Set - Steel base skid mounted with anti-vibration mounts between Engine-Alternator set and base frame.</p> <p>Panel - A control panel equipped with safety features and provision for automatic operation of the generating set.</p>
Engine	<ul style="list-style-type: none"> • Make: -Kirloskar/Cummins / TATA • 1500 rpm • 4 stroke • Cooled Natural Gas engine. • Electronic governor. • Dry type Air cleaner • Pressurized lubrication through gear pump • Fuel filter, Pressure gauge mounting arrangement, Pressure reducing valve, Flow control valve, Temp. sensor, Pressure sensors • Ignition System with Electronic coil and spark plug • Engine has fuel kit comprising Regulator, Mixer and valves available to give optimum fuel efficiency • Spin on type lube oil filter • 24 V electrical start • 24 V battery charging alternator • The engine is capable to take 10% overload for 1 hour in every 12 hours when operated for PRIME duty application.
Alternator	<ul style="list-style-type: none"> • Kirloskar/Cummins/TATA/ (Or alternate equivalent) make • 3 phase, 415V, 50Hz, 0.8 Power Factor • Brushless design • IP 23 protection • Class H insulation • Self-excited, AVR (Automatic voltage regulator) controlled and screen protected. • Alternator capable to take 10% overload for 1 hour in every 12 hours • Direct coupled to the engine
Frame & Mounting Arrangement	<ul style="list-style-type: none"> • The complete Generating set is mounted on a Heavy duty "Skid Type frame. The frame incorporates lifting points for lifting by crane. • Engine and alternator are flange connected and directly coupled through a disc coupling and mounted on base frame. Anti-vibration mounts are provided for mounting of engine alternator assembly on base frame.
Control Panel	<p>Rating set control panel is supplied with a sophisticated suitable SEDEMAC KG- 645 make module generator PLC controller</p> <p>This PLC controller is manufactured by SEDEMAC and is a sophisticated PLC controller for Gas generating sets.</p> <p>The DSE module monitors the engine, indicating the operational status and fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure. The LCD display indicates the fault.</p>
	A Powerful microprocessor contained within the module allows for incorporation of a range of enhanced features -

	<ul style="list-style-type: none"> • based LCD display • True RMS voltage, current and power monitoring • Engine parameter monitoring • Fully configurable inputs for use as alarms or a range of different functions <p>Using a PC and the configuration software allows alteration of selected operational sequences, timers and alarm trips. Additionally, the module's integral facia configuration editor allows adjustment of this information.</p> <p>The Deep-Sea module has the ability to monitor under/over voltage, over current, under / over generator frequency, under speed, over speed, charge fail, emergency stop, low oil pressure, high engine temperature, fail to start, ` low / high DC battery volts, reverse power, earth fault protection, out of synch amongst other features.</p> <p>Engine shutdown with indication for following is available –</p> <ul style="list-style-type: none"> • Low lube oil pressure • High Water Temperature • Over speed • Under speed • Over frequency • Under frequency • Over voltage • Under voltage • Other Instrumentation (digital) - • Voltmeter • Ammeter • Frequency meter • Hours run counter • Lube oil Pressure • kW-hr meter • DC voltmeter • Other hardware - • Control ON/OFF switch • Emergency Stop Switch – Mushroom Type 	
Manuals & Electrical Drawings	The following will be supplied with each set (in English language) -	
Engine Make		Kirloskar/Cummins /TATA
Genset Type		As per OEM
Prime Power	kVA	125
	kWe	100
Engine Model		As per OEM
Type	-	V type
Cooling Type	Air/Water	Water Cooled
Combustion System	-	Spark Ignition
Aspiration	-	Turbo charged and after cooled
Speed Governing	-	ECU Governing

Emission Compliance	-	CPCBII
Firing Order	(Starting From Fly Wheel End)	1-5 -7 -2-6 -3-4-8
No of Cylinders	No	8
Bore	mm	130
Stroke	mm	150
Engine Volume	CC	15928
	dm ³	15.928
Compression Ratio		10.5 ± 1
Power Gross	HP & (No Over load)	171
	kW	127.5
Speed	RPM	1500
Maximum Torque	Nm	1452
BMEP @ Rated Power	Bar	11.7
^uF.C @ 50% Load	Kg/Hr.	27.2
	SCM	35.7
F.C @ 75% Load	Kg/Hr.	35.9
	SCM	47.2
F.C @100% Load	Kg/Hr.	44.7
	SCM	58.8
Sump-Lube Oil Capacity	Liters	46
Lube Oil Change Period	Hours	500
Starting system	-	24VDC
Inlet Gas Pressure Requirement	Min (Bar)	1
	Max (Bar)	4
Dimensions(mm)	Length x Width x Height	As per Manufacturer's specification
Weight (Dry)	~Kg	As per Manufacturer's specification

& the maximum power of engines is declared at NTP conditions and appropriate deration factor will be applicable with respect to Natural Gas genset site altitude and ambient air conditions. The effect of the fuel quality should also take into account on performance i.e. Methane %: Min 88% & Calorific Value of Fuel: Min 8500Kcal/m³

^u F.C: Fuel Consumption; A tolerance of +/- 5% will applicable as per IS8528. Updated on 20-05-2022 or latest.

[!] Dimensions are approximate and vary with options.;

Above specifications are subject to change without prior notice due to continuous technical development.

SALIENT FEATURES OF ACOUSTIC ENCLOSURE

The acoustic enclosure is made of 16-gauge CRCA sheet. The salient features of the acoustic enclosure are: -

- ♦ The enclosure is of modular construction with the provision to assemble and dismantle easily at site.
- ♦ The sheet metal components are to be pretreated before powder coating.
- ♦ The enclosure is powder coated (inside as well outside) with a special pure polyester-based powder. All nuts and bolts internal are made of MS / all nuts and bolt external are made of SS.
- ♦ The doors are gasketed with high quality EPDM gaskets to prevent leakage of sound
- ♦ The door handles are lockable type.
- ♦ Sound proofing of the enclosure is done with high quality PU foam with superior lattice structure for effective sound absorption, fire retardant grade of suitable thickness, die cut and pasted with special adhesive for long durability.
- ♦ Specially designed attenuators are provided to control sound at air entry and exit points.
- ♦ Adequate ventilation is provided to meet total air requirement. If required, a blower is provided to meet total air requirement.
- ♦ Temperature of enclosure does not exceed beyond 5-7 C of ambient temperature.
- ♦ There is a provision of emergency shutdown from outside the enclosure.
- ♦ Noise Level is <75 dB(A) at 1 mtr distance under free field conditions, i.e. as per CPCB norms.
- ♦ Door hinges are made of anti-corrosive special alloy.
- ♦ Viewing window is fitted with toughened glass instead of acrylic sheet.

The specifications have to be demonstrated during system installation and acceptance.

Sl. No.	Natural Gas Based Silent Generator Set Specifications for IIBF C-5/30, Safdarjung Development Area, New Delhi-110016.	
	Natural Gas Based Generator	The generator should have an inbuilt air compressor, and no external compressor is required to operate
1	Maximum Flow Rate	Up to 24LPM of ultra- dry, non-methane hydrocarbon free nitrogen at up to 99.9% purity and 116 psi
2	Max Pressure	100-116 psi (6.8-8 bar)
3	Purity	up to 99.9%
4	Gas Outlets	1 x ¼" BSPP
5	Max Relative Humidity	80% RH
6	Max Altitude	3000m
7	Particles	< 0.01 µm
8	Phthalates	Phthalate & BHT Free
9	Suspended Liquids	None
10	Non-Methane Hydrocarbon Content	< 1 ppm NMHC
11	Start-Up Time for Purity	5 minutes
12	Operating Temperature	5°C (41°F) to 35°C (95°F)
13	Electrical Requirements	100 - 240V ±10%, 50/60Hz, 6.4 - 2.9A
14	Air Compressor	Built-in air compressor to maximize space in lab

15	Power Consumption	max 559W
16	Generator Weight	59 kg / 130 lbs (approx.)
17	Generator Dimensions (H x W x D)	524 x 450 x 719 mm (20.6 x 17.7 x 28.3 ")
18	Heat Output (Max measured 100 psi)	230V - 1907 BTU/hr
19	Noise Level	59dB(A) @1m
20	Install base	The company should have at least 50 installations with Waters MS 3100 Mass Detector instruments to ensure service quality and availability.
21	Service support	The company should have direct service operation India and maintain enough inventory to provide prompt services
22	OEM Recommendation	The gas generators should be tested and approved by MS-OEMs; a certificate is required for suitability and compatibility.

LETTER OF ACCEPTANCE FOR SUBMISSION OF TENDER

From,

To:

The Zonal Head,
Indian Institute of Banking & Finance,
Professional Development Centre - NZ,
C-5/30, Safdarjung Development Area,
New Delhi-110016.

Sub: -SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF GAS GENERATOR SET AT C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016.

Dear Sir,

Having examined the tender document contained hereto relating to the Gas Generator Work of Institute's office premises comprising of the Tender Notice, General and Special Conditions of Contract, Specifications, Schedule of Quantities etc., having understood the provisions and requirements relating to the project, having conducted a thorough study of the job, location of site, availability of power supplies, transportation and communication facilities, availability and accessibility of materials, and all other factors governing the project, we hereby submit our offer for the execution of the proposed work in accordance with the terms and conditions and within the time period specified in the time schedule, specifications, designs, drawings as specified in tender document at the rates (all inclusive) quoted by me / us in the accompanying BOQ of Financial BID.

I / We undertake to do all extra work which may be assigned to us as a part of this contract, at the rates quoted in the tender document. If after the tender document is accepted, I / We fail to commence the execution of the works within 10 days, we agree that the IIBF shall have full authority to forfeit the earnest money deposited and award the contract to any other contractor they deem fit.

General description of work	Tender for Supply, Installation, testing, maintenance, commissioning and AMC of Gas Generator Set at C-5/30, Safdarjung Development Area, New Delhi-110016.
EMD	EMD shall be Rs. 45,000/- payables in form of Demand Draft / Pay Order favoring Indian Institute of Banking & Finance, payable at New Delhi.
Initial security deposit	The amount of ISD shall be 2% of the accepted value of the tender including EMD. payable in form of Demand Draft / Pay Order favoring Indian Institute of Banking & Finance, payable at New Delhi Or Bank Guarantee from scheduled bank in favor of IIBF
Date of commencement	Within 7 th Calendar Day from the date of Issue of work order
Time for completion of work	As per the time schedule given in the tender document i.e. 2 months.
Retention money to be deducted from the bills	8% of the certified gross value of each running bill, till accumulating total security deposit including ISD
Total Security Deposit / Retention Money	5% of Contract amount
Defect Liability Period	365 days (twelve months) from the date of virtual completion of the work.
Period of Final Measurement	15 Days
Liquidated damages	At the rate of 0.5% of the Contract Value per week which subject to a maximum of 5% of the accepted Contract Value.

Payment of security deposit after virtual completion	50% of the total security deposit will be returned after (i) issue of virtual completion certificate by the project architect. (ii) contractor's removal of his material, equipment's, cleaning of site and against Bank Guarantee. Balance 50% of retention money shall be released 14 days after satisfactory completion of defect liability period
Recovery towards taxes.	As per rules applicable from time to time.

Should this tender be accepted, I / We hereby agree to abide by and fulfill all terms and conditions referred above / in the tender and in default thereof; to forfeit and pay to the Indian Institute of Banking & Finance such sums of money as are stipulated in the conditions contained in the tender document.

I / We agree to abide by this tender for a period of 120 days from the date of opening of the financial bid. I / we also agree to pay the ISD as specified in the Tender.

If I / We fail to commence the work as specified in the memorandum above or if I / We fail to deposit the amount of initial security deposit specified in the memorandum I / We agree that the said the Indian Institute of Banking & Finance, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest money in full.

The said Indian Institute of Banking & Finance shall also be at liberty to cancel the Work Order of tender if I / We fail to execute an agreement or to start the work as stipulated in the tender documents or fail to deposit the amount of initial security deposit as specified in the memorandum.

I / We agree that the Indian Institute of Banking & Finance reserves the right to accept the tender in whole or in part or split the works under separate contracts or accept or reject any or all the tenders without assigning any reason whatsoever thereof.

I / We are aware that the quantities mentioned in the tenders are indicative and the same can be increased or decreased depending on the requirement of the Institute and as per the site conditions. I / we will not seek compensation for the same and execute the additional quantities at the tender rates.

The names of the partner of the firm or the person authorized to sign the contract having power of attorney to sign are, ----- (Certified copy of the power of attorney is enclosed hereto).

Yours Faithfully

Signature of the tenderer with seal

Place

Date

Witness –Signature :
Name in Block letters:

Address:
Occupation:

ARTICLES OF AGREEMENT

(On stamp paper of Rs.100/-)

ARTICLE OF AGREEMENT made thisday of -----Two Thousand Twenty BETWEEN the Indian Institute of Banking & Finance, a company registered under section 8of Companies act 2013 having its Corporate Office at 2nd Floor , Tower 1 , Kohinoor City , Commercial II, Kurla West, Mumbai - 400 070 and Zonal Offices called as Professional Development Center across the country and amongst others, one such Zonal office is Northern Zonal Office located at C-5/30, Safdarjung Development Area , New Delhi-110016 hereinafter called "Employer" (which expression shall mean and include its successors and assigns wherever the context or meaning shall so require or permit, of the one part

AND

..... having their office at , hereinafter called the "Contractor" (which expression shall mean and include its successors and assigns wherever the context or meaning shall so require or permit) of the other part.

WHEREAS the Employer is desirous of carrying out GAS GEN SET Work of Institute's Office Premises at its new office premises located at C-5/30, Safdarjung Development Area, New Delhi-110016.

The said new office premises would become habitable and operational, in due course, on accomplishment of the afore-named work.

Whereas the Employer has appointed as the Project Architect who have prepared and provided drawings, specifications and the bill of quantities and are duly accepted and consented and would be acted upon while carrying out Gas Generator Set Work at the new office premises located at C-5/30, Safdarjung Development Area, New Delhi-110016, and the parties hereto in token thereof affixed the irrespective signatures.

AND WHEREAS the Contractor has agreed to execute the aforesaid Gas Generator Set Work at Employer's new premises at C-5/30, Safdarjung Development Area, New Delhi 110016 on the basis of terms and conditions which have been bifurcated as General Conditions of contract and Special Conditions of the Contract set forth herein and in the Bill of Quantities and conditions of contract (all of which are collectively hereinafter referred to as "The said terms & conditions"), as per the drawings, specifications and the bill of quantities and/or described in the said specifications and included in the said bill of quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable there under (herein after referred to as the said "contract value"). The said terms and conditions shall be read as part of this Agreement and are annexed hereto.

As per the work order issued by the Employer vide letter No.....dated.....,the contract value is Rs.....(Rupees.....) (Herein after referred to as the said contract value.)

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the said Contract Value to be paid at the times and in the manner set forth in the said terms & conditions; the contractor shall upon and subject to the said terms & conditions execute and complete the works shown upon the said drawings and approved plans strictly in accordance with the specifications and priced schedule of quantities and other contract documents.
2. The Employer shall pay the contractor the said contract value or such other sum as shall become payable at times and in the manner specified in the said terms & conditions.
3. The said terms & conditions and Appendices thereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by them to the said terms & conditions and perform the agreements on their part respectively in the said terms & conditions contained.

4. The contractor shall afford every reasonable facility for the carrying out of all works in the manner laid down in the said terms and conditions, and shall make good any damage done to walls, floors, etc. or in any other manner after the completion of such work.
5. That the Time shall be considered as the essence of this Contract, and the Contractor hereby agrees to commence the work within 7 (seven) calendar days from the date of work order and to complete the entire work within **2 Months** nevertheless the provision for extension of time as may be agreed to by the Employer in accordance with terms and conditions.
6. The contract herein contained shall include not only the work mentioned above but all subsidiary works connected therewith at and within the same site as may be ordered to be done from time to time by the said project Architect/Employer/PMC for the time being, even if such work may not be shown on the said drawings or described in the said specifications and priced bid.
7. All payments by the Employer under this contract will be made only by NEFT/RTGS/ Net banking.
8. All disputes arising out of or in any connection with this agreement shall be deemed to have arisen at New Delhi and only court in New Delhi shall have jurisdiction to determine the same. However, the parties hereto agree that disputes, if any, shall preferably be resolved through arbitration as per the terms and conditions (clause 48 of the conditions) and if need be an arbitrator shall be appointed as per the said terms and conditions. The entire proceedings of arbitration shall be as per the provisions of Arbitration and Conciliation Act,1996.
9. That all the parts, as per schedule of documents & definitions, of this Contract have been read by the Contractor and fully understood by the Contractor and shall be treated as part and parcel of this Agreement and are annexed hereto.
10. This contract shall be signed in duplicate, the First copy/original whereof shall be kept in the custody of the Employer, the second copy shall be with the contractor. However, an authentic copy thereof shall be provided to the Project Architect and PMC respectively for their reference, record and for carrying and compliance of their functions.

IN WITNESS WHEREOF THE Employer through its authorized officials and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written. (If the contractor is a partnership or an individual).

IN WITNESS WHEREOF the Employer has set its hand to these presents through its duly authorized official and the Contractor has caused its common seal of to be affixed hereunto and the said two duplicates/has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written (If the Contractor is a company).

Signature Clause

SIGNED AND DELIVERED by the Indian Institute of Banking & Finance by the hand of

Shri_____

(Name and Designation)

_____ in

the presence of

(1)_____

Address_____

(2)_____

Address_____

Witness

SIGNED AND DELIVERED BY

in the presence of

(1) _____

Address _____

(2) _____

Address _____

Witness

THE COMMON SEAL OF _____

Was hereunto affixed pursuant to the
resolutions passed by its Board of
Directors at the meeting held on
_____ in the presence of

(1) _____

(2) _____

Directors who have signed these
presences in token thereof in the
presence of

(1)

(2)

If the party is a partnership firm should
be signed by all or an authorized person
on behalf of all partners.

If the contractor signs under its common seal the
signature clause should tally with the sealing clause in
the Articles of Association.

SIGNED AND DELIVERED by
the contractor by the hand of
Shri

And duly constituted attorney

If the Contractor is signing by the hand of power of
attorney whether a company or individual.

INSTRUCTION FOR SUBMISSION OF BID

1. All covering letters and information to be included in the bid shall be submitted along with the bid itself.
2. Tender should be submitted in two covers viz. separate sealed Envelope-1 (containing technical bid) and Envelope-2 (containing price bid) and both of these covers should be placed in an envelope duly super scribing clearly the name of the work "**BID FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF GAS GENERATOR AT IIBF C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016.**" The full name, postal address and email id the Bidder shall be written on the bottom left-hand corner of the sealed envelope. Further envelopes containing each part shall be superscripted as under:
3. The first cover/envelope containing Part-1 shall be submitted along with the following documents and the cover should be super scribed with "**ENVELOPE-1 : TECHNICAL BID FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF GAS GENERATOR AT IIBF C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016.**"
 - a) Original bid document duly filled in and completed in all respects except prices, signed with rubber seal on each page as proof of acceptance.
 - b) Earnest Money Deposit (Demand Draft)
 - c) Memorandum of Association & Article of Association/Partnership deeds, as applicable.
 - d) Copy of document in proof of registration as a manufacturer of the Gas Generator Set in Class-'A' with CPWD. Description of the bidders works experience of similar nature during last seven years along with documentary proof (ending March 2025).
 - e) Balance Sheet and the Profit & Loss Account together with Tax Audit Report duly certified by a firm of Chartered Accountant for the last 3 financial years.
 - f) Bidder shall furnish list of the supervisory persons and other technical persons he wishes to deploy in this job along with their experience details.
 - g) Letter of Authority for signing and negotiation of bid.
 - h) Document in the respect of PAN, GST VAT number/registration.
 - i) Solvency certificate for Rs. 50 lacs from any nationalized /scheduled bank.
 - j) Receipted copy of the return of Income filed with Income Tax Authority for the last 3 years.
 - k) Any additional relevant information to be furnished by the bidder.

The Second cover containing Part-2 shall be submitted along with the following documents and the cover should be super scribed with "**ENVELOPE-2 : PRICE BID FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF GAS GENERATOR AT IIBF C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016.**"

- a) Schedule of prices duly filled in.

It may please be noted that: -

- (a) The price bid part shall not contain any terms and conditions whatsoever. These, if any, must be brought out in Part- I only. Any condition given in the price bid will not be taken into account and it will be sufficient cause for rejection of the bid.
- (b) Price bids of only those bidders whose technical and commercial proposals are complete and found acceptable, shall be opened in the presence of bidders or their authorized representatives who may like to be present, on a suitable date to be intimated to such tenderers separately.

Both of these envelopes should be placed in one envelope duly super scribing clearly the name of the work **“BID FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING & AMC OF GAS GENERATOR AT IIBF C-5/30, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016.”** The full name, postal address and email id the Bidder shall be written on the bottom left-hand corner of the sealed envelope.

4. Bidders are advised to submit their offers strictly based upon the detail terms and conditions contained in “INSTRUCTION TO BIDDERS” being a part of this tender document and not to stipulate any deviations. Should it, however, become unavoidable, deviations should be stipulated in part – I of the tender. IIBF reserves the right to evaluate bids containing such deviations and accept or reject any part or whole of the same without showing any reason whatsoever.
5. IIBF reserves the right to reject any or all bids without assigning any reasons.
6. Bids received late at IIBF 's office after the stipulated last date and time for receipt of bids due to any reason whatsoever, will not be considered. Bids shall be judged as non-responsive due to any of the following reasons:
 - (a) Bids submitted after the due date and time.
 - (b) Bids submitted without Earnest money,
 - (c) Bids submitted without certificate(s) in respect of the financial and technical qualification criteria.
 - (d) Bids submitted without documents to establish the eligibility criteria.
 - (e) Bids submitted without photocopies of the receipted copies of GST, IT and PF Returns from the respective Competent Authority.
 - (f) Qualified Price Bid.
 - (g) Any other reason as applicable.
7. Any annotation or accompanying documentation in the bid shall be in Hindi or English language only and in metric system. Bid filled in any other language will be summarily rejected.
8. The firms interested in the work must have a good track record and must not have been blacklisted by any Government Organization/ PSUs / Statutory Body / Major Ports in course of last 5 years. Bids of such blacklisted firms will not be considered by the Authority. The intended tenderers must have positive net worth as on 31.03.2025. This fact should be certified by a Chartered Accountant. The tenderer must also submit a banker's certificate along with the offer regarding the financial credibility/solvency of the firm.
10. Bidders shall sign their proposal with the exact name of the firm to whom the bid document has been issued. The bid shall be duly signed and sealed by an authorized person of the bidders' organization as follows:
 - (a) If the Tender is submitted by an individual, it shall be signed by the proprietor above his full name and full name of his firm with its current business address.
 - (b) If the Tender is submitted by the proprietary firm, it shall be signed by the proprietor above his full name and full name of his firm with its name and current business address.
 - (c) If the Tender is submitted by a firm in partnership, it shall be signed by all the partners of the firm above, their full names and current business address, or by a partner holding the power of attorney for the firm for signing the Tender in which cases a certified copy of the power of attorney shall accompany the Tender. A certified copy of the partnership deed and the current business address of all the partners of the firm shall also accompany the Tender.
 - (d) If the Tender is submitted by a limited company, or a limited corporation, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the power of attorney shall accompany the Tender. Such a limited company or corporation may be required to provide satisfactory evidence of its existence before the contract is awarded. 'Satisfactory evidence' means the certificate of incorporation of the limited company or corporation under Indian Companies Act, 1956.

11. Bidders shall clearly indicate their legal constitution and the person signing the bid shall state his capacity and also the source of his ability to bind the bidder. The power of attorney or authorization or any other document constituting adequate proof of the ability of the signatory to bind the bidder shall be annexed to the bid. The owner may reject outright any bid unsupported by inadequate proof of the signatory's authority.
12. The bidding document shall be completed in all respects and shall be submitted together with the requisite information and appendices. They shall be completed and free from ambiguity, change or inter-lineation.
13. If the space in the bid form or in the Appendices thereto is insufficient, additional pages should be separately added. These pages shall be page numbered & signed by the Bidder.
14. Bidders shall set their quotation in firm figures and without qualification. Each figure stated should also be repeated in words and in the event of any discrepancy between the amounts stated in figures and words, the amount quoted in words shall be deemed the correct amount. Bid containing qualifying expressions such as "subject to minimum acceptance" or "subject to availability of material / equipment" etc. is liable to be rejected.
15. IIBF shall have a unqualified option under the said bid bond to forfeit the EMD in the event of Bidder failing to keep the bid valid upto the date specified or refusing to accept work or carry it out in accordance with the bid if the IIBF decides to award the work to the Bidder.
16. The EMD shall be retained with the IIBF until finalization of tenders. If any statements documents/information submitted by tenderer is found false/incorrect, willful misrepresented or omission of facts or fake/forged documents, the EMD shall be forfeited.
17. IIBF shall, however, release the EMD in respect of unsuccessful bidders within 30 (thirty) days of placement of order to successful bidder. EMD of successful bidder will be converted into security refundable deposit. In case of any breach of contract, EMD will be forfeited.
18. The EMD shall be retained with the IIBF until finalization of tenders. Further, security deposit as per the clause of Security shall be payable by the successful bidder. If the tenderer fails to furnish the security deposit or performance guarantee in accordance with tender conditions, EMD shall be forfeited. In the event of the Bidder becoming the successful Contractor. The amount of EMD would be adjusted against the Security deposit.

DEFINITIONS

1. Definition and Interpretation: -

In construing these conditions, the Specifications, Bill of quantities and Contract Agreement etc. the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires.

1. **The Institute:** - The Term Institute shall mean Indian Institute of Banking & Finance, a company registered under section 26 of Companies act 1913 (now section 8 of Companies act **2013**) having its Corporate Office at 2nd Floor, Tower 1, Kohinoor City, Commercial II, Kurla West Mumbai - 400 070 and Northern Zone Professional, Development Centre at C-5/30, Safdarjung Development Area, New Delhi- 110 016 the employer or their authorized representative to act on their behalf.
 2. The contract means the documents forming the tender and acceptance thereof and the format agreement executed between the Competent Authority on behalf of the Zonal Head Indian Institute of Banking and Finance and the contractor, together within the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the IIBF and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.
 3. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them.
 - i) The 'Contractor' shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
 - ii) The 'Employer' means the Indian Institute of Banking and Finance and its authorized officer.
 - iii) The 'Officer in charge' means the IIBF's officer in charge appointed by the Employer for the supervision of the work.
 - iv) 'Officer in charge representative' shall mean any officer of the Authority nominated by the IIBF to work on his behalf for supervision, checking, taking measurements, checking bills ensuring quality control, inspecting works, issue instructions and other related works for completion of the project.
 - v) 'IIBF /Authority/Department/Owner' shall mean the Indian Institute of Banking and Finance which invites tenders on behalf of the Zonal Head, IIBF.
 - vi) The 'Site' shall mean premises no. C-5/30, Safdarjung Development Area, New Delhi on which the works are to be executed under this contract.
 - vii) The term 'Day' shall mean a calendar day beginning and ending at midnight.
 - viii) The term 'Week' shall mean seven consecutive calendar days.
 - ix) The term 'Month' shall mean the English calendar month.
- Excepted Risk are risks due to riots (other than those on account of contractors employees) war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, any act of Govt. damages, acts of God, such as earthquake, lightning and unprecedented flood, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Govt. of the part the works in respect of which a certificate of completion has been issued or a cause solely due to Govt., faulty design of works.
- (x) The market rate shall be as decided by the IIBF on the basis of the cost of materials and labour at the site where the work is to be executed plus and percentage mentioned in tender to cover all overheads and profits.

- (xi) Schedules referred to in these conditions shall mean the relevant schedules annexed to the tender papers or the standard schedule of rates of the Govt. mentioned with the amendments thereto issued up to the date of receipt of the tender.
- (xii) District specifications mean specifications followed by the State Government in the area where the work is to be done.
- (xiii) Tendered value means the value of the entire work as stipulated in the letter of award.

GENERAL CONDITIONS OF CONTRACT

1. All supplies proposed to be obtained on contract are as notified in Notice Inviting Tender published in newspapers and on the website of IIBF

This form will state the supplies to be made as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of the earnest money to be deposited with the tender and the amount of the security deposit to be deposited by the successful tender and the percentages, to be deducted from bills, copies of the specifications and any other documents required in connection with the work, signed for the purpose of identification by the Officer in charge . These documents shall also be open for inspection by the contractor at the office of the Indian Institute of Banking and Finance during office hours.

2. In the event of the tender being submitted by a firm, it must be signed on it's behalf by a person holding a valid power of attorney authorizing him to do so, such power of attorney shall be produced with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act.
3. Receipts for payment made to a firm must also be acknowledged and signed in the name of firm by one of the partners, or by some other person having the authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the supplied form stating at what rate he is willing to undertake each item of the work. Tenderers who propose alteration in the work specified in the said form of invitation to tender or in the time allowed for carrying out the work or which contain any other conditions of any sort will be liable for rejection.
5. In the event of a tender being accepted a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign, copies of the specification and other documents. In the event of a tender being rejected the earnest money forwarded with such unaccepted tender shall thereupon be returned to the respective bidder.
6. The officer inviting tenders shall have the right to reject any or all of the tenders without assigning any reason and will not be bound to accept the lowest tender.
7. The Security Deposit of Contractor shall not be refunded before the expiry of the three months after completion of the work.

CLAUSES:

1. The contractor shall complete his work under this contract on or-before **Two months'** time as mentioned in the tender failing which he shall be subject to pay or allow deduction of one percent on the total amount of the contract for every delay subject to a total deduction of 5% of the tender value/agreement amount or the value of final bill whichever is more as liquidated damages to the IIBF.
2. In every case in which the payment or allowance mentioned in clause 1 shall have incurred for ten consecutive days, the Officer in charge shall have the power to annul the contract and or have the supply completed at the contractor's risk and expenses without any further notice to him and the contractor shall have no claim to compensation for any loss that may incur in any case.
3. If the contractor shall be hindered in the supply of the materials so as to necessitate an extension of the time allowed in this tender, he shall apply in writing to the Officer in charge who shall grant it in writing if there are reasonable ground for it, and without such Authority

in writing by the Officer in charge , the contractor shall not claim exempted from the fine leviable under Clause 2. For the completion of the rest of the work the contractor shall be entitled to such extension of time as may be determined by the Officer in charge.

4. The contractor should inform the officer in charge of IIBF of his intention of making the delivery of materials and on the materials being approved the officer in charge or his authorized representative shall grant a receipt to him no material will be considered as delivered until so approved.
5. On the completion of the delivery of material the contractor shall be furnished with a certificate to that effect by the officer in charge, but the delivery will not be considered complete until the contractor shall have removed all rejected materials and shall have the approved materials stocked or placed in such positions as be pointed out to him.
6. If at any time after the commencement of the supplies the IIBF shall for any reason whatsoever not require the whole or part thereof as specified in the tender to be supplied, the officer in charge shall in addition to his power to annul the contract in case of default on the part of the contractor, have power to terminate all liability of the IIBF there under at any time after giving due notice in writing to the contractor of his desire to do so. In the event of such a notice being given:
 - (a) The officer in charge shall be entitled to direct the contractor to complete the supply of the material which are ready for delivery up to the expiry of the notice and thereafter to cease their supply, all the articles or supplies received and accepted up to that date shall be paid for at the tender rate, and.
 - (b) The contractor shall have no claim to any payment or compensation what-so-ever on account of any profit or advantage which he might have derived in consequence of the full execution of the contract but which he did not obtain owing to its premature termination or for any loss which he might have sustained on this account.
7. The materials shall be of the best description and in strict accordance with the specification and the contractor shall receive payment for such materials only as are approved and passed on by the Officer in charge.
8. In the event of the material being considered by the Officer in charge to be inferior to that described in the specifications, the contractor shall on demand in writing forthwith remove the same at his own charge and cost and in the event of his neglecting to do so within such period as may be name by the Officer in charge that office may have such rejected materials removed at the contractors risk and the expenses incurred being liable to deducted from any sums due or which may become due to the contractor:
 - (a) Contractor/supplier hereby declares that the goods, stores, articles sold or to be sold to the IIBF under this Contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained in the tender document and the contractor/seller hereby guarantees that the said goods/stores articles shall continue to confirm to the description and quality aforesaid for a period of 12 months from the date of delivery of the said goods/stores/article to the **employer** and that notwithstanding the fact that the Officer in charge may have inspected and on approved the said good articles be discovered not be conforming to the description and quality/aforesaid or to have deteriorated (and the decision of the Officer in charge will be entitled to reject the said good/stores/articles or such portion thereof as may be discovered not to confirm to the said description and quality). On such rejection the goods/articles

stores will be at the contractor's risk and the provisions contained in the tender document shall mutatis mutandis apply to the removal of the goods/stores/articles rejected under this clause. The contractor/seller shall, if called upon to replace the said goods/stores/articles or such portion thereof, as has been rejected by the Officer in charge or otherwise the contractor/seller shall pay to the IIBF such damages as may arise by reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the IIBF on that behalf under this contract or otherwise.

9. if the contractor or his work people or servants shall break, deface injure or destroy buildings, road, fence, enclosure, water pipes, cabbies, drains, electric or telephones posts or wires, trees, grass or grass land or any other property belonging to IIBF or any other contractor working in the same premises where the materials are being supplied, he shall make good the same at his own expenses and in the event of his refusing or failing to do so the damage shall be made good as required at his expenses by the Officer in charge , who shall deduct the cost from any sums due, or which may become due, to the contractor.
10. The contractor shall supply at his own expense all tools, plant and equipment's required for the due fulfillment of this contract and the material shall remain at his risk till the date of final delivery, unless it shall have been removed in the meantime for use by the Officer in charge.
11. No material shall be brought to the site or delivered on Sundays or holidays without the written permission of the Officer in charge. Normally all materials shall be delivered during office hours and with prior information to the Officer in charge.
12. This contract shall not be sublet without the written permission of the **employer**. In the event of the contractor subletting his contract without such permission he shall be considered to have thereby committed a breach of contract and shall forfeit his security deposit and shall have no claim for any compensation for any loss.
 - (a) Employer shall have power to make any alteration, omissions, additions or substitutions in the original specifications, drawings, designs, and instruction that may appear to be necessary or advisable during the course of supply of the materials and the contractor shall be bound to supply the materials in accordance with any such instruction which may be given to him in writing signed by the Officer in charge and such alterations, omissions, additions or substitution shall not invalidate the contractor, and altered, additional or substituted materials which the contractor may be directed to supply in the manner above specified as part of the work shall be supplied by the contractor on the same conditions in all respect for which he agreed to do the main work, and at the same rates, as specified in the tender for the main work. The time for the completion of the supply shall be extended with the proportion that the altered, additional or substituted quantity of materials bears to the original quantities and the certificate of Officer in charge shall be conclusive as to such proportion. And if the altered, additional or substituted materials include any class of materials, for which the rate is specified on this contract then such class of materials shall be supplied at the rates entered in the schedule of rates of the main contract direct on which the estimated cost shown in the tender is passed and if such class of materials are not entered in the schedule of rates of the main contract direct on which the estimated cost shown in the tender is passed then the contractor, shall within seven days of the date of his receipt of the order to supply the materials, inform the Officer in charge of the rate which he intends to charge for such class of materials and if the Officer in charge does not agree to his rate he shall give notice in writing and be at liberty to cancel this supply, such class of materials and arrange the supply thereof in such manner as he may consider advisable provided always that if the

contractor shall commence supply or incur any expenditure in regard thereof the rates shall have been determined as lastly herein before mentioned time and in such case he shall only be entitled be paid in respect of the supply made or expenditure incurred by any him prior to the date of the determination of the rate as aforesaid according to such rate or rates shall be fixed by the Officer in charge . In the event of any disputes the decision of the IIBF shall be final and binding to all.

13. In respect of all labour directly or indirectly employed in the work for performance of the contractor's parts of this agreement the contractor shall at his own expense arrange for the safety provision as per CPWD safety code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails for making arrangement and provide necessary facilities as aforesaid he shall be liable to pay a penalty of Rs. 50/- for each fault and in addition the Officer in charge shall be at liberty to make arrangement and provide the facilities as aforesaid and recover the cost incurred in that regard from the contractor.

14. **Settlement of Disputes and Differences**

- a) The Contractor shall try to settle all matters pertaining to this contract first with the IIBF representative. The decision of the IIBF representative may be in the form of a certificate, instruction or otherwise. The decision, opinion, direction, certificate for payment with respect to all or any of the matters related to removal of improper work, virtual completion, defect liability period the IIBF representative shall be final and conclusive and binding on the Contractor and Employer and shall be without appeal.
- b) All other disputes and differences of any kind whatsoever between the Contractor and the IIBF representative arising out of or in connection with the contract or carrying out the works (whether during progress of work or within defects liability period and whether before or within 365 days of determination / abandonment / breach of the contract) shall then be referred by the Contractor to the Employer giving inter-alia full details of matter under dispute and the reasons thereof. The Employer shall, within a period of 60 days from the receipt of such a reference from the contractor, make his decision in writing. If the Contractor is dissatisfied with the decision of the Employer, he can refer to the matter for arbitration by serving a written notice on the Employer, through the IIBF representative within a period of 28 days of such a decision. The notice shall specify the matters with full details and amounts which are in dispute and referred to as arbitration.
15. Subject to as aforesaid the provisions of the **Arbitration Act, 1996** or any statutory modification or re-effacement thereof and the rules made there under and for time being in force shall apply to the arbitration proceeding under this clause.
16. It is term of the contract that the party invoking arbitration shall specify the disputes or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of such dispute.

The arbitrator(s) may from time to time with consent of the parties enlarge the time, for making and publishing the award.

- 17(a) The arbitrator/s shall make such inquiries and shall call upon such evidence as he may deem fit.
- 17(b) The arbitrator/s may call upon the parties for their personal appearance before him on the date fixed by him at the specified time and place.
- 17(c) That in case of non-appearance of either of the parties the arbitrator/s shall proceed ex-parte.

- 17(d) The decision of the arbitrator/s shall be binding on the parties, their legal representatives, successor and heirs.
- 17(e) The cost of the reference shall be on the sole discretion of the arbitrator/s.
18. On the breach of any terms or conditions of this contract by the contractor, the said owner/IIBF shall be entitled to forfeit the security deposit or the balance thereof that may at that time be remaining and to release and retain the same as damages and compensation for the said breach but without prejudice to right of the said owner/IIBF to recover any further sums as damage from any sums due or which may become due to the contractor by IIBF or otherwise howsoever.
19. Without prejudice to any of the rights or remedies under this contract. If the contractor dies the Officer in charge on behalf of IIBF shall have the option of terminating the contract without compensation from the contractor.
- 19.(1) Whenever any claim against the contractor for the payment of a sum or money arises or under the contract, IIBF shall be entitled to recover such a sum by appropriating in part or whole security deposit of the contractor and to sell any of his equipment etc. In event of the security being insufficient or if no security has been taken from the contractor then the balance or the total sum recoverable as the case may be, shall be deducted from any sum hence due or which at any time thereafter may become due from the contractor under this or any other contract with the IIBF Should this sum be not sufficient to cover the full amount recoverable, the contractor shall pay to IIBF on demand the balance remaining due.
- 19.(2) IIBF shall have the right to cause an audit the technical examination of the works and the final bill of the contractor including all supporting vouchers abstract etc. to be made after payment of final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him to have been done by him under contract and found not to have been executed the contractor shall be liable to refund the amount of the overpayment and it shall be lawful for IIBF to recover the same from him in the manner described in sum clause (1) of this clause or in any other manner legally permissible and if as a result of audit and technical examination, it is found that contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by IIBF to the contractor.

20.ASSIGNMENT

The whole of the works included in the contract shall be executed by the Contractor and the Contractor shall not directly or indirectly transfer, assign or sublet the Contract or any part, share or interest therein nor, shall take a new partner without written consent of the Employer and no subletting shall relieve the Contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

21.DEFECTS AFTER COMPLETION

The defects liability period (D.L.P.) shall commence from the certified date of Virtual Completion issued by the Employer. The Contractor shall make good at his own cost and to the satisfaction of the Employer all defects, other faults which may appear within twelve (12) Months after completion of the work. In default, the Employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the Contractor and such damages, losses and expenses shall be recoverable from him by the employer or may be deducted by the Employer, in lieu of such amending and making good by the Contractor, deduct from any money due to the Contractor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient,

recover that balance from the Contractor from the amount retained together with any expense the Employer may have incurred in connection therewith.

SPECIAL CONDITION

1.0 Terms of Payment

The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

- 1.1 60% after initial inspection and delivery of Gen set at site in good condition of pro-rata basis.
- 1.2 25% after completion of installation in all respect.
- 1.3 Balance 15% will be paid after testing, commissioning trial run & handing over to the IIBF for use.
- 1.4 **Security Deposit:** Security Deposit shall be deducted from each running bill and the final bill to the extent of 8% of the gross amount payable subject to maximum limit of 5% of the tendered value of work. The earnest deposit shall be adjusted against this security deposit. The security deposit shall be released on the expiry of the guarantee period stipulated in the contract.

2. Rates:

- 2.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes (excluding GST), duties and levies, octroi and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, overhead charges general liabilities /obligations and clearance from local authorities. However, the fee for inspections shall be borne by the department.
- 2.2 The contractor has to carry out routine & preventive maintenance for 12 months from the date of handing over. Nothing extra shall be paid.

3.0 Completeness of tender:

- 3.1 All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.
- 3.2 For item/equipment requiring initial inspection at manufacturer's works, the contractor will intimate the date of testing of equipment's at the manufacturer's works before dispatch. The department also reserves the right to inspect the fabrication job at factory and the successful tenderer must make the arrangement for the same. The successful tenderer shall give sufficient advance notice regarding the dates proposed for such tests/inspection to the department's representative(s) to facilitate his presence during testing/fabrication. The Officer in charge at his discretion may witness such testing/fabrication. The cost of the Engineer's visit to the factory will be borne by the department. Also, equipment may be inspected at the manufacturer's premises, before being dispatched to the site by the contractor.

4.0 Storage and custody of materials:

The agency has to make its own arrangement for storage of sundry materials and erected equipment's. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

5.0 Care of the Building:

Care shall be taken by the contractor while handling and installing the various equipment's and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

6.0 Completion of period

The completion period of **two months** indicated in the tender documents is for the entire work of planning, designing, supplying, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Officer in charge.

7.0 Performance Guarantee:

7.1 The tenderer shall guarantee among other things, the following

- (a) Quality, strength and performance of the materials used.
- (b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.
- (c) Satisfactory operation during the maintenance period.

7.2 The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issue of letter of intent. This guarantee shall be in the form of government securities of fixed deposit receipts or guarantee bonds of any scheduled bank or the State Bank of India in the specified format. The performance guarantee shall be initially valid up to the stipulated date of completion plus 60 days above. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the Competent Authority.

8.0 Guarantee

8.1 All equipment shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and /or breakdown due to defective design, workmanship of material. The equipment's of components, or any part thereof, found defective during the guarantee period shall be forth repaired or replaced free of cost, to the satisfaction of the Officer in charge. In case it is felt by the department that undue delays are being caused by the contractor in doing this, the same will be done by the department at the risk and cost of the contractor. The decision of the Officer in charge in this regard shall be final.

9.0 Power Supply

Electric service connections of 415 V, 3 Phase, 4 Wire, 50 Hz, AC supply shall be provided by IIBF for installation purposes free of charge.

10.0 Water Supply

Water supply shall be made available by the department at one point.

11.0 Data Manual and Drawings to be furnished by the tenderers:

11.1 With Tender: The tenderer shall furnish along with the tender, detailed technical literature, pamphlets and performance data for appraisals and evaluation of the offer.

12.0 After Award of work

- (i) The successful tenderer would be required to submit the following drawings within a month of award of work for approval before commencement of installation.

- (a) All general arrangement drawings.
 - (b) Complete layout dimensions for every unit/group of units with dimensions required for erection purposes.
 - (c) Any other drawing/information not specifically mentioned above but deemed to be necessary for the job by the contractor.
- 13.0 The successful tenderer should furnish well in advance three copies each of detailed instructions and manuals of manufactures for all items of equipments regarding installation, adjustments operation and maintenance i/e preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc. all in triplicate.

14.0 Extent of work

- 14.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The terms complete installation shall not only mean major items of the plant and equipment's covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charges whether or not those mentioned in detail in the tender document in connection with this contract.
- 14.2 Minor buildings works necessary for installing equipment, foundation, making of opening in walls or in floors and restoring them to their original condition, finish and necessary grouting etc. as required.
- 14.3 Maintenance (Routine & Preventive) for one year from date of completion and handing over.
- 14.4 The work is a turnkey project. Any item required for completion of the project but left inadvertently shall be executed within the quoted rates.

15.0 Inspection and testing:

- 15.1 Copies of all routine documents and type test certificates of the equipment carried out at the manufacturer's premises shall be furnished to the Officer in charge and consignee.
- 15.2 After completion of the work in all respects the contractor shall offer the installation for testing and operation.

16.0 Validity

Tenders shall be valid for acceptance for a period of 120 days from the date of opening of price bid.

17.0 Compliance with regulations and Indian standards

- 17.1 All works shall be carried out by the tenderer at their cost, in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
- (i) Factories Act.
 - (ii) Indian Electricity Act 1910 and Rules 1956 as amended UpToDate.
 - (iii) IS & BS Standards as applicable.
 - (iv) Workmen's compensation Act.
 - (v) Statutory norms prescribed by local bodies like CEA, NDMC etc.
- 17.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

17.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 50/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of the tenderer and recover the cost thereof from him.

18.0 Indemnity

The successful tenderer shall always indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising therefrom during the period of erection, construction and putting into operation the equipment's and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

19.0 Erection Tools

No tools and tackles either for unloading or for shifting the equipment for erections purposes would be made available by the employer. The successful tenderer shall make his own arrangement for all these facilities.

20.0 Cooperation with other agencies

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the successful tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the successful tenderer himself.

21.0 Mobilization Advance

No mobilization advance shall be paid for this work.

22.0 Insurance and Storage

All consignments are to be duly insured of the supplier. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

23.0 Verification of correctness of Equipment at Destination

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

24.0 Painting

This shall include the cost of painting of the entire exposed iron work completed in the installation.

All equipment's work shall be painted at the works before being dispatched to the site.

25.0 Training

The scope of work includes technical training of two people at site. Nothing extra shall be payable on this account.

26.0 Maintenance

26.1 Sufficient trained and experienced staff shall be made available to meet any extent of work during the guarantee period of one year from the handing over of the installation.

26.2 The maintenance, routine as well as preventive for one year from the date of taking over the installation as per manufacturer's recommendation shall be carried out and the record of the same shall have to be maintained.

27.0 Interpreting Specifications

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

- i) Schedule of quantities
- ii) Technical specifications
- iii) Drawing (if any)
- iv) General Specifications
- v) Relevant IS or other international code in case IS code is not available.

28.0 Scope of Preventive Maintenance and breakdown during Warranty period:

The warranty provided shall be comprehensive, covering the following aspects:

1. **Replacement of Genuine Spares:** All genuine spares, items, and consumables required for the smooth operation of the entire system shall be replaced free of charge.
2. **Bimonthly Preventive Maintenance:** Preventive maintenance will be carried out every two months to ensure the GG set remains in optimal and trouble-free condition.
3. **Breakdown Response:** In case of a breakdown, the vendor shall respond promptly, with the maximum response time being 24 hours from the time the complaint is lodged, including on weekends and public holidays. Repairs for major breakdowns should be completed within 4 days. Breakdown services will be available throughout the year.
4. **Field Service Report:** After every visit, the vendor must provide a field service report, duly acknowledged by the person in charge of the GG set's location.
5. **Resource Provision:** The vendor is responsible for providing all necessary tools, equipment, manpower, and transportation required to execute the job. No additional charges will be paid by the authority for these resources.
6. **Contact Information:** The vendor must provide a single point of contact or a toll-free number for the authority to reach out in case of any issues or complaints regarding the installed system.
7. **Cleaning of Carbon Residue:** If cleaning of carbon residue is needed during the warranty period, it shall be the vendor's responsibility.

29.0 Contractor's Responsibility for Work Execution:

The contractor is required to provide all necessary resources for the proper execution of the work in line with the intent and specifications outlined in the drawings, schedule of quantities, and tender documents. If any discrepancies are found, the contractor must immediately inform the employer in writing, and the employer's decision will be final.

The rates quoted by the contractor for individual items must include all costs associated with completing the work as per the contract, including incidental work, labor, and materials, along with all applicable taxes and duties unless otherwise specified in the tender documents. No additional payments will be made for any incidental work or resources unless explicitly stated.

The contractor shall supply, install, and maintain, at their own cost, all necessary tools, machinery, scaffolding, and other equipment required for the work. This also includes safety measures such as fencing, lighting, and protection of surrounding areas, roads, and buildings. The contractor must remove these resources as required and reinstate the area to the employer's satisfaction.

Additionally, the contractor must always allow access for the employer or their representatives to inspect the work and ensure its proper execution.

30.0 TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORKS AND SITE OFFICE REQUIREMENTS

The contractor shall provide at his own cost all artificial light required for the work to complete the work within the specified time.

The contractor shall arrange for temporary latrines and other welfare provision as per the applicable labour laws for the use of workers and field staff and keep the same in a clean and sanitary condition to the satisfaction of the Public Health Authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make all the work good disturbed by these conveniences.

The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed in or upon any boarding, gantry, building structure other than those approved by the Employer.

Protective- Measures: The contractor from the time of being placed in possession of the site must make suitable arrangements for watching, lighting and protecting the work, the site and surrounding property by day, by night, on Sundays and other holidays.

Contractor shall indemnify the Employer against any possible damage to the building, roads, or members of the public during execution of the work.

Storage of materials: The contractor shall maintain proper storage and adequate protection of the materials etc. and other work that may be executed on the site including the tools and materials and remove the same on completion.

Godown shall be erected / provided for storing about six weeks' requirement of material. Structure shall be waterproof from all the sides and top. Material should be stored one feet-above the ground level and have pucca/ wooden raised floor.

Tools: All measuring tapes shall be steel and suitable scaffolding and ladders that may be required for safely taking measurements shall be supplied by the contractor.

VISIT OF SITE

Intending Bidder shall visit the site and make himself thoroughly acquainted with the local site conditions, nature and requirements of the works, facilities of transport conditions, effective labour and materials, accesses and storage for materials and removal of rubbish. The Bidder shall provide in their bid for the cost of carriage, freight and other charges as also for any special difficulties and including Traffic police restriction for transport etc. for proper execution of work as indicated in BOQ. The successful Bidder will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site conditions which existed before the commencement of the work or which in the opinion of the Employer might be deemed to have reasonably been inferred to be so existing before commencement of work.

BILL OF QUANTITIES

Name of work: -Supply, installation, testing and commissioning of Gas Generator Set at IIBF C-5/30, Safdarjung Development Area, New Delhi-110016.

S. No	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Design, Engineering, Manufacturing, Testing, Nameplate marking, Painting, Internal Inspection, Packaging, Forwarding, Transportation, Transit Insurances, Shipment, Unloading at IIBF SDA, New Delhi, Consumables, Compulsory Spares and Commissioning Spares required for 125 KVA Gas Based Generator Set capable of operating at gas inlet pr. of 4 kg/cm ² (range 2 to 4 kg/cm ²) for Delhi area at 48-degree Cent. site temp. with suitable acoustic enclosure:				
	125 KVA GEG set powered with alternator suitable to develop 125 KVA at 1500 RPM, 415 Volts, 50 Hz, 0.8pf with standard AMF Controller in sound attenuated enclosure complete with pads & battery.	Each	2		
2	Installation, Testing and Commissioning of Gas Genset at site, consisting of Filtration, Pressure reduction, Metering, Changeover Synchronized, AMF & Auto-load sharing with required relay. Electrical panel etc. facilities. The price shall be inclusive of Airfare, Boarding, Lodging, Local Transport, Incidental, traveling etc. & all other expenses Gas piping with Gas Supply line with Metering (providing input pressure -2 to 4 Kg/cm ² .)	Each	2		
3	Minor Modification of existing structure on terrace including painting for placing and fixing of new Gas Generator set as per requirement. All complete as per approval of employer.	JOB	1		
4	Supply, Installation, Testing and Commissioning of Waterless Maintenance Free Copper Earthing Based on Pre-Casted Conductive Earthing Electrode	Each	4		
5	i) Dimensions Length x Dia (MM): 2000 x 100 with 15mm Solid Conductor (Cu) ii) Conduction: Non-Ionic Movement of Ions iii) Multi Point Dissipation Contacts iv) Exceeds Grade 25 Concrete vi) Relative Density: 890-990 kg/m ³ vii) 3000 times more effective than Bentonite viii) Electrolytic Corrosion Resistance: >86% reduction in corrosion ix) Short Circuit Current (Tested): Peak: 40 KA RMS: 22 Kilo Amps for 1 Sec x) Mechanical Strength: >Grade 25 Concrete xi) High Fault Current Test Withstand: 1686 V for 500 ms xii) Standards: IEEE 80:2000 & BS 7430				

	xiii) Warranty: 10 Years Full Replacement xiv) Life of Earthing: 25 Years respectively				
6	Providing and doing maintenance free GI earth electrode 75mm dia 3.0 meter long complete in all respect as per site requirement.	Each	4		
7	Supply, Laying, Testing & Commissioning of following sizes of Al conductor 1.1 kV grade, armoured, XLPE insulated LT Cables including necessary cleats, clamps etc. (Cables shall be partly laid in Pipes, O/H cable tray, on wall, buried in ground)				
i	4 Core 25 Sq.mm (AL.)	R.mtr	15 0		
ii	3.5 Core 150 Sq.mm (AL)	R.mtr	12 5		
8	Supply, Erection, Testing & Commissioning of following sizes of cable end terminations with double compression gland for 1.1 kV grade, XLPE insulated, Al Conductor cable				
i	4 Core 25 Sq.mm (AL.)	Each	4		
ii	3.5 Core 150 Sq.mm (AL)	Each	4		
9	Providing and fixing MS pipe for gas connection from IGL meter to Genset including valve, pressure gauge, MS clamp etc. including synthetic enamel paint. All complete as per site requirement and approval of employer.	R.mtr	12 5		
10	Supply, installation, testing and commissioning of control cable of 2.5 sqmm (core as per OEM requirement) copper cable complete as required. All complete as per approval of employer.	R.mtr	10 0		
11	Providing annual maintenance services for successive 4 years (AMC services after a one-year warranty period) shall include providing routine maintenance services, pertaining to complaints as and when they occur and preventive maintenance visit i.e. 12 visits per annum for checking and ensuring proper functioning of gen set and to maintain the equipment in proper operating condition. AMC services shall include providing all manpower, labour, tools and tackles. The rates quoted for the AMC services shall also include all taxes and duties as applicable (Except GST) and cost of transportation of freight, insurances etc.				
i	2 nd Year	NO.	02		
ii	3 rd Year	NO.	02		
iii	4 th Year	NO.	02		
iv	5 th Year	NO.	02		
	Total				
	Discount (if any)				

	GST				
	GRAND TOTAL				

Annexure – I

PROFORMA FOR EXPERIENCE

DETAILS OF SIMILAR WORKS CARRIED OUT BY THE FIRM

S.No	NAME OF ORGANIZATION	NAME OF WORK	CONTRACT VALUE	SCHEDULED DATE and ACTUAL COMPLETION (EXTN. OF TIME, IF ANY)	ACTUAL REASON FOR DELAY IN COMPLETION, IF ANY

Annexure II

Manufacturer's Authorization Form (MAF)
(For Bidders other than OEM & Generator-OEM)

Dear Sir,

Sub: Supply, Installation, Testing and Commissioning of GG Set as per CAQM guidelines for make GG Sets Installed at IIBF, Delhi

We _____ who are established and reputable manufacturer of Make GG sets having Head office at _____ and Engine factories at _____ and _____ do hereby authorize M/s _____ (Name and address of Agent/Dealer) for the Bid of "Supply, Installation, Testing and Commissioning of GG Set as per CAQM guidelines for make GG Sets Installed at IIBF Office in Delhi".

We hereby extend our full warranty and technical support for the GG Set approved for installation on Make GG sets under contract resulting from this bid (including any time extensions, renewals thereof) based on the terms and conditions of the tender. We also hereby undertake to provide service support during the defect liability period /Warranty period for any faults arising out of manufacturing / installation.

Yours faithfully

Authorized Sign with Seal

_____ (Name of the OEM)

Note:

1. This letter of authority should be on the letterhead of the OEM and should be signed by a person competent and has the power of attorney to bind the manufacturer. It should be submitted in "original" by the bidder in technical bid.

Annexure – III

(On non- judicial, stamp paper of Rs 100/ -)

PERFORMA OF BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT

B.G. No...

Value Rs.....

To,

The Indian Institute of Banking & Finance

Professional development center NZ, New Delhi.

Sub: - **Bank Guarantee** of Rs.....towards Security Deposit for the work of Indian Institute of Banking & Finance.

Dear Sir,

WHEREAS -----(Name and address of contractor / Vendor) (hereinafter called the Contractor) have entered contract for **Supply, Installation, testing and commissioning of Gas Generator Set at C-5/30, Safdarjung Development Area, New Delhi-110016.** with Indian Institute of Banking & Finance as mentioned in the letter of IIBF, vide their letter No.....dated.....and the correspondence and tender relating thereto which is hereinafter referred to as "the said contract" and that the contractor has agreed to produce of Bank Guarantee amounting to 5% of the contract value less Initial Security deposit of contract obligations.

AND WHEREAS in terms of the said contract, the contractor is required to furnish to Indian Institute of Banking & Finance a guarantee of a scheduled bank for a value of Rs.....to be valid up to --- ----- (date)

AND WHEREAS -----(Name of Bank and its branch) having their office at----- (address) the guarantor, at the request of the contractor hereby furnishes a guarantee in favor of Indian Institute of Banking & Finance and guarantees in the manner hereinafter appearing.

In consideration of the premises, we -----(Name of bank and its branch) having our office at ----- (address) hereafter called the "Guarantor" (which expression shall include its successors and assigns) hereby expressly irrevocably and unreservedly undertake and guarantee that if the contractor fails to execute the work according to his obligations under the said contract, then notwithstanding any dispute between Indian Institute of Banking & Finance and the contractor the guarantee shall, without demur and without reference to the contractor, pay to Indian Institute of Banking & Finance immediately any sum claimed by Indian Institute of Banking & Finance under the said contract upto a maximum amount of Rs.....(Rupees only)

In case the amount demanded by Indian Institute of Banking & Finance is not paid within 48 hours of receipt of demand, the guarantor agrees to pay the aforesaid amount of Rs. -----

Such payment shall be notwithstanding any right the contractor may have directly against Indian Institute of Banking & Finance, or any disputes raised by the Contractor with Indian Institute of Banking & Finance or any suits or proceedings pending in any competent court or before any arbitrator. Indian Institute of Banking & Finance written demand shall be conclusive evidence to the guarantor that such payment is payable under the terms of the contract and shall be binding in all respect on the guarantor.

The Guarantor shall not be discharged or released from this undertaking and guarantee, by any arrangement, variations made between Indian Institute of Banking & Finance and the contractor and or indulgence shown to the contractor by Indian Institute of Banking & Finance, with or without the consent and knowledge of the guarantor or by alterations in the obligations of the contractor by any forbearance, whether as to payment, time performance or otherwise.

This guarantee shall remain valid up to ----- or as may be caused to be extended by the

contractor or until discharged by Indian Institute of Banking & Finance in writing whichever is earlier.

This guarantee shall be a continuing guarantee and shall not be revocable during its Currency except with the previous written consent of Indian Institute of Banking & Finance.

This guarantee shall not be affected by any change in the constitution of the contractor by absorption with any other body or corporation or dissolution or otherwise and this guarantee will be available to or enforceable against such body or corporation.

In order to give effect to this guarantee Indian Institute of Banking & Finance will be entitled to act as if the guarantor were the principal debtor and the guarantor hereby waives all and any of its rights or surety ship.

This guarantee shall continue to be in force notwithstanding the discharge of the contractor by operation of law and shall cease only on payment of the amount by the guarantor to Indian Institute of Banking & Finance of the amount hereby secured.

This guarantee shall be in addition to and not in substitution for any other guarantee or security for the contractor given or to be given to Indian Institute of Banking & Finance in respect of the said contract.

Any notice by way of request and demand or otherwise here under may be sent by post or any other mode or communication to the guarantor addressed as aforesaid and if sent by post it shall be deemed to have been given at the time when it would be delivered in due course of post and in providing such notice when given by post it shall be sufficient to prove that the envelope containing the notice was posed and a certificate signed by an officer of Indian Institute of Banking & Finance that the envelope was so posted shall be conclusive.

These presents shall be governed by and constructed in accordance with Indian Law.

Notwithstanding anything contained herein before the liability of the guarantor under this guarantee is restricted to a sum of Rs.....

This guarantee will remain valid up to..... unless a demand or claim under this guarantee is made in writing on or before.....the guarantor shall be discharged from all liability under the guarantee thereafter.

Dated the.....

For (Name of Bank)

(Signature/s with designations/s of signatory /ies)

(Name and Stamp of Bank)

Annexure - IV

PERFORMANCE BANK GUARANTEE

To: _____ *[name of Employer]*
_____ *[address of Employer]*

WHEREAS _____ *[name and address of Contractor]* (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ *[name of Contract and brief description of Works]* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee.

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ *[amount of guarantee]*¹ _____ *[in words]*, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ *[amount of guarantee]*¹ as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until (i.e.) 28 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor

Name of Bank

Address

Date

- 1 An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.

Annexure -V

Undertaking for approved Product to be obtained by Bidders other than OEM & Generator-OEM (on Engine OEM's letterhead)

To
Zonal Head
IIBF

Bidder M/s _____ is participating in the RFP for Supply, Installation, Testing and Commissioning of GG Sets to be Installed at IIBF.

I hereby Undertake as below: -

"That the proposed GG Set of M/s _____ is tested and approved product for installation on make GG sets and will not cause any adverse effect on the performance and efficiency of GG sets.

If any problem arises in GG sets due to installation of these devices, we indemnify the cost of repair to the Bank.

Authorized Signatory Signature of Engine OEM

Annexure- VI

Undertaking for Not Being Blacklisted (on Bidder's letterhead)

To
Zonal Head
IIBF

I am Participating the RFP for "Supply, Installation, Testing and Commissioning of GG Sets to be Installed at IIBF, Delhi Office

I hereby Undertake as below: -

"I/We have not been blacklisted/ barred by Department of Financial Services, Govt. of India and my company does not feature in the debarment list on Central Public Procurement Portal (CPPP) maintained by Department of Expenditure, Ministry of Finance, Govt. of India.

"I/ We undertake and confirm that eligible similar work(s) has/have not been got executed through another agency on back-to-back basis.

Further that, if such a violation comes to the notice of the Bank, then I/we shall be debarred for bidding in IIBF in future forever. Also, if such violation comes to the notice of the Institute before date of start of work, the Institute shall be at liberty to forfeit the entire amount of Earnest Money Deposit."

Authorized Signatory Signature of Bidder