



**RESERVE BANK OF INDIA
ESTATE DEPARTMENT
THIRUVANANTHAPURAM**

NOTICE INVITING TENDER

Reserve Bank of India invites e-Tender for Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram. The tendering would be done through the e-Tendering portal of MSTC Ltd (<https://mstcecommerce.com/eprocn/>). The Schedule of e-Tender is as follows:

SCHEDULE OF TENDER (SOT)

a.	E-Tender no.	RBI/Thiruvananthapuram Regional Office/Estate/9/25-26/ET/215
b.	Name of Work	Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram
c.	Estimated cost of work	₹47.00 Lakhs (Including GST)
d.	Mode of Tender	e-Procurement System (Technical and Commercial Bid (Part-I) and Price Bid (Part-II)) through MSTC portal; (https://mstcecommerce.com/eprocn/)
e.	Date & time from which NIT and tender can be viewed / downloaded.	June 23, 2025 after 6.00 PM
f.	Earnest Money Deposit (EMD)	Rs. 94,000/- (Rupees Ninety-four thousand only) in the form BG in favour of Reserve Bank of India, Thiruvananthapuram to be delivered in physical form (BG)/ email (estatethiro@rbi.org.in) at Estate Dept. on or before 01:00 PM of July 28, 2025 at Reserve Bank of India, Bakery Junction, Thiruvananthapuram – 695033 OR <u>Details for NEFT for EMD Payment of Rs. 94,000/-</u> Beneficiary Name: ESTATEPRAC Reserve Bank of India Thiruvananthapuram Beneficiary Ac No: 8614038 IFSC: RBIS0THPA01 Remarks: Estate DG Set
g.	Date, time & venue of pre-bid meeting (offline)	July 15, 2025, 11:00 AM at Estate Department, Reserve Bank of India, Thiruvananthapuram.
h.	Bidding start date for Technical and Commercial Bid (Part-I) and Price Bid (Part-II) at website; (https://mstcecommerce.com/eprocn/)	July 17, 2025 2.00 PM
i.	Date of closing of online e-Tender for	July 28, 2025, 2.00 PM

	submission of Technical and Commercial Bid (Part-I)	
j.	Date of closing of online e-tender for submission of Revised Price Bid	July 28, 2025, 2.00 PM
k.	Date & time for opening of Technical and Commercial Bid (Part-I)	July 28, 2025, 3.00 PM
l.	Date & time for opening of Price Bid (Part-II)	On a subsequent day, which will be intimated in advance to all the bidders.
m.	Transaction Fee	Amount as advised by M/s MSTC Ltd.

Applicants intending to apply will have to satisfy the Bank by furnishing documentary evidence in support of their possessing required eligibility and in the event of their failure to do so, the Bank reserves the right to reject their candidature. Tenders without EMD will not be accepted under any circumstances.

Any amendments / corrigendum to the tender, if any, issued in future will only be notified on the RBI Website and MSTC Website as given above and will not be published in the newspaper.

Regional Director for Kerala and Lakshadweep

h. Date of Starting of e-Tender for submission of online Techno-Commercial Bid and price Bid at www.mstcecommerce.com/eprocn/	2.00 pm on July 17, 2025 2.00 PM
i. Last date of submission of EMD	1.00 pm on July 28, 2025
j. Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid	2.00 pm on July 28, 2025
k. Date & time of Opening of Part I of e-Tender	3.00 pm on July 28, 2025
l. Date & Time of opening of Part- II (Financial Bid)	Opening of Financial Bid shall be intimated separately.
m. Transaction Fee	To be paid through MSTC Payment Gateway/ NEFT/ RTGS in favour of MSTC Limited or as advised by M/s MSTC Ltd.

Applicants intending to apply will have to satisfy the Bank by furnishing documentary evidence in support of their possessing required eligibility and in the event of their failure to do so, the Bank reserves the right to reject their candidature.

The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part any tender and reserves the right to reject all the tenders without assigning any reason therefor.

Amendment/ corrigendum to the tender, if any, issued in future will only be notified on the RBI website and MSTC Website as given above.

Regional Director for Kerala and Lakshadweep



संपदा विभाग / Estate Department
तिरुवनंतपुरम / Thiruvananthapuram

E-Tender No. RBI/Thiruvananthapuram Regional Office/Estate/9/25-26/ET/215

Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram

Part I

(Techno – Commercial bid)

Name of the tenderer _____

Address _____

Last date of submission of EMD: 1.00 PM on July 28, 2025

Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid: 2.00 PM of July 28, 2025

Date & time of opening of Part - I (i.e., Techno-Commercial Bid): 3.00 PM of July 28, 2025

Important Instructions Regarding E-tender

This is an e-procurement event of RBI. The e-procurement Service Provider/Contractor is the MSTC Limited.

You are requested to read and understand the Notice Inviting Tender and subsequent corrigenda if any, before submitting your online tender.

Process of E-tender:

A) Registration: The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Techno-Commercial Bid as well as Price Bid over the internet will be done. The Vendor should possess Class III signing and encryption type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. RBI is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE PRICE BID AND THE COMMERCIAL BID HAS TO BE

SUBMITTED ON-LINE ONLY AT www.mstcecommerce.com/eprocn/ (Version 3)

1) Vendors are required to register themselves online with

www.mstcecommerce.com/eprocn

Register as Vendor -- Filling up details and creating own user id and password Submit. For further details, go to Download Guide / Video / Registration

Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form. In case of any clarification, please contact MSTC/ RBI, (before the scheduled time of the e- tender).

Contact details:

a) Contact person (MSTC) For Vendors:

HO Central Help Desk: (For vendors)

Phone Number :07969066600

helpdeskho@mstcindia.in (Please mention "HO Helpdesk" as subject while sending emails)

Availability: 9:30 AM to 5:00 PM on all working days for all Technical issues e-Tenders, System settings etc.

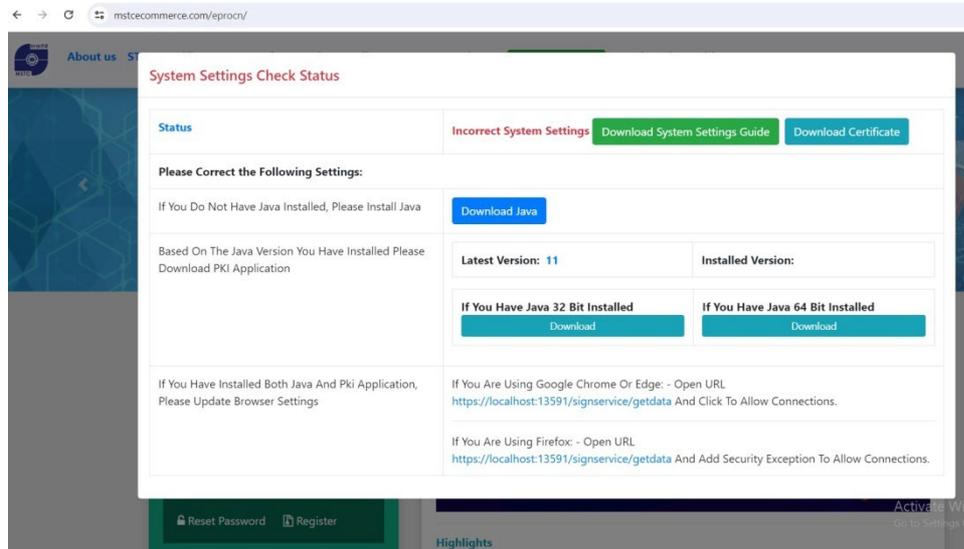
b) Contact person at RBI (RBI Thiruvananthapuram)

1. K Suresh Kumar (AM-Tech) - 9488166782(sureshkumark@rbi.org.in)
2. K Shaji Krishnan (AGM) - 8547357810 (kshajikrishnan@rbi.org.in)
3. Rajeev S J (JE-Elec) - 8891370780 (rajeevsj@rbi.org.in)

4. Ronnie Joseph (AM) - 7560929057 (ironnie@rbi.org.in)
5. Koshy Thomas (Asst) - 0471-2783045 (koshythomas@rbi.org.in)

1. System Requirement:

For details, vendor may refer to the **DOWNLOAD SYSTEM SETTING GUIDE** available <https://www.mstcecommerce.com/eprocn/>



2. Special Note towards Transaction fee: The vendors shall pay the transaction fee using “Transaction Fee Payment” Link against the specific tender in the “Bid Floor”/through the “Pay Transaction fee” in “Event catalog” through their login. Service Provider / Contractor / Vendor shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, Service Provider / Contractor / Vendor shall generate a challan by filling up a form. Service Provider / Contractor / Vendor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. On selecting Online Payment, Service Provider / Contractor / Vendor shall have the provision of making payment using its Credit / Debit Card / Net Banking. Once the payment gets credited to MSTC’s designated bank account, the transaction fee shall be auto authorized.

Transaction fee is non-refundable. A vendor will not have the access to online e- tender without payment of the transaction fee.

NOTE: Bidders are advised to remit the transaction fee well in advance before the closing time of the event so as to give themselves sufficient time to submit the bid.

3. Information about tenders / corrigenda shall be sent by email only during the process till finalization of tender. Hence the vendors are required to ensure that their corporate email I.D. provided is valid and updated at the time of registration of vendor with the MSTC Ltd. Vendors are also requested to ensure validity of their class III signing and encryption type of DSC (Digital Signature Certificate).

4. E-tender cannot be accessed after the due date and time mentioned in NIT (Notice inviting tender).

5. Bidding in E-tender:

Note: Vendors are instructed to use **Upload Documents** link in My menu to upload documents in document library. Multiple documents can be uploaded. Maximum size of single document for upload is 5 MB.

Once documents are uploaded in the library, vendors can attach documents through **Attach Document** link against the particular e-Tender. Please note that if the documents are not attached to any e-Tender, the same cannot be downloaded by RBI and it will be deemed that the vendor has not submitted the documents. For further assistance please follow instructions of vendor guide.

- a) Bidder(s) need to submit necessary EMD, E-Tender fees (If ANY) and Transaction fee separately for the e-tender. Transaction fees if any are non-refundable. No interest will be paid on EMD. EMD of the unsuccessful bidder(s) will be refunded by RBI.
- b) The process involves Electronic Bidding for submission of Techno Commercial Bid as well as Price Bid.

The bidder(s) who have submitted the above fees can only submit their Techno Commercial Bids and Price Bid through internet in MSTC website www.mstcecommerce.com → e-procurement → New Common Portal → Bid Floor Manager → live event → Selection of the live event → Transaction fee → Common terms → Attach Documents → Price Bid.

Please Note: The vendor after successful remittance of the transaction fees and EMD details, will get the attach documents and common terms tab enabled in their login. Post successful completion of this step, the vendors will be allowed to save the lot specific terms and submit their price bid against the lot through the portal or download and upload the excel file for submitting price bids, as the case may be. In case the attach documents and/or saving common terms step is unsuccessful, the tabs for saving lot specific terms and submitting price bid would be disabled. The status of whether the same is successful/pending would be displayed in the bid status button.

- c) First the vendor needs to fill up the Commercial specification if any and save it. Then the vendor should fill up the Techno-commercial bid. After filling the Techno-Commercial Bid, bidder should click 'save' for recording their Techno-Commercial bid. Once the same is done, the Price Bid link becomes active and the same has to filled up and then bidder should click on "save" to record their price bid. Then once both the Techno-Commercial bid & price bid has been saved, the bidder can click on the "Final Submission" button to register their bid

NOTE: - After clicking the final submission "Delete bid" option would be shown. If the vendor wants to delete the bid after final submission and re submit the bid, then he/she should click delete bid and resubmit the same and again click final submission.

- d) In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid.

- e) During the entire e-tender process, the bidders will remain completely anonymous to one another and also to everybody else.
- f) The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.
- g) All electronic bids submitted during the e-tender process shall be legally binding on the bidder. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by the Buyer will form a binding contract between Buyer and the Bidder for execution of supply/work. Such successful tenderer shall be called hereafter **SUPPLIER/CONTRACTOR**.
- h) It is mandatory that all the bids are submitted with class III signing and encryption type of digital signature certificate otherwise the same will not be accepted by the system.
- i) Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.
- j) No deviation of the terms and conditions of the e-Tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms & conditions for the e-Tender.
- k) Unit of Measure (UOM) is indicated in the e-tender Floor. Rate to be quoted should be in Indian Rupee as per UOM indicated in the e-tender floor/tender document.

Important Note

In the Online price bid, due to number of words limitation of 1000 characters, complete description could not be accommodated and description given thereof is brief. Before quoting rates online, all the contractors must read the complete details of each items given in the un-priced bill of quantities (BOQ) given in Part-I of the tender document. For execution and rate purpose, the details given in Unpriced Bill of Quantities in Part-I of the tender document will be implemented.

DISCLAIMER

Reserve Bank of India, Estate Department, Thiruvananthapuram, has prepared this document to give background information on the Project to the interested parties. While Reserve Bank of India has taken due care in the preparation of the information contained herein and believe it to be in order, neither Reserve Bank of India nor any of its authorities or agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

The information is not intended to be exhaustive. Interested parties are required to make their own inquiries and respondents will be required to confirm they have done so and they do not rely only on the information provided by RBI in submitting the Tender. The information is provided on the basis that it is non-binding on Reserve Bank of India or any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

Reserve Bank of India reserves the right not to proceed with the Project or to change the configuration of the Project, to alter the timetable reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the matter further with any party expressing interest. No reimbursement of cost of any type will be paid to persons or entities expressing interest.

Section I

Commercial Terms and Conditions Form of Tender

Dear Sir,

Having examined the specifications, drawings, designs and schedule of quantities relating to the works specified in memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, we hereby offer to supply and execute the works specified in the said memorandum, within the time specified in the memorandum, at the rates mentioned in the attached schedule of quantities and in all respects with the specifications, designs, drawings and instructions in writing referred to in conditions of tender, the Articles of 'Agreement, Special Conditions, Schedule of Quantities and conditions of Contract and with such materials as are provided for by us, and in all other respects in accordance with such conditions so far as they may be applicable.

MEMORANDUM

(a)	Description of works	:	Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram
(b)	Estimated cost	:	₹47 lakh (Including GST)
(c)	Earnest Money	:	₹94,000/-
(d)	Time allowed for completion of the work from tenth day after the date of work.	:	3 Months

2. Should this tender be accepted, we hereby agree to abide by and fulfil the terms and provisions of the said Condition of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to the Reserve Bank of India the amount mentioned in the said conditions.
3. We have deposited a sum of ₹94,000/- as earnest money with the Reserve Bank of India, Thiruvananthapuram, which amount is not to bear any interest. Should we fail to execute the Contract when called upon to do so, we do hereby agree that this sum shall be forfeited by us to the Reserve Bank of India, Thiruvananthapuram.

Name of the partner of the firm authorised to sign (or)

Name of person having power of Attorney to sign the contract. (Certified true copy of the Power of Attorney should be attached).

Yours faithfully

Signature of Contractor

(Signatures and addresses of witnesses)

Section II

General instructions to tenderer(s) & Special Conditions Part I - Commercial Conditions

E-Tenders are invited from Original Equipment Manufacturers or their authorized dealers/integrators for the work of **'Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram** E-Tenders comprising duly filled in details of both Part-I and Part II specifications of the tender should be uploaded in MSTC website under RBI portal **not later than 2.00 PM** on July 28, 2025.

2. Eligibility criteria:

A. The tenderer must be either an Original Equipment Manufacturer (OEM) of the offered DG set or must be an Authorised dealer / representative of the OEM of the offered DG set. Necessary documents in support of the above shall be submitted along with tender Part-I. The tenderer shall submit the applicable document as [Annexure XI](#).

B. Experience prior to five years: - The tenderer must have experience of minimum 5 years' in the field of undertaking the work of Supply, Installation, Testing and Commissioning of DG Set. *For establishing the same, the tenderer should submit copy/ies of work order/s for such work/s, issued on or before May 31, 2020 and also copy of the respective completion certificate.*

C Qualifying Works:- The tenderer must have successfully executed "similar works" during last 5 years, (i.e.; works completed on or after June 1, 2020), individually costing as under:

(a) Three works each costing not less than 40% of estimated cost.

OR

(b) Two works each costing not less than 50% of estimated cost.

OR

(c) One work costing not less than 80% of estimated cost.

Note: Similar work means 'Supply, Installation, Testing and Commissioning of DG Set (320 kVA or higher rating) and associated works for the office buildings/commercial premises/industrial houses

(For establishing the above, the tenderer should submit copy/ies of work order/s for such similar work/s, issued on or after June 1, 2020) and also copy/ies of the respective completion certificate/s)

AND

D. Have a minimum yearly turnover of 100% of estimated cost during the last 3 years (2022-23, 2023-24 and 2025-26) supported by audited financial statements.

AND

E. Have a service set up (OEM authorized service center) in Thiruvananthapuram/any nearby city of Kerala for rendering after sales service.

Note: Only tenderers who qualify above eligibility criteria will be eligible to tender for the work. A tender submitted by a firm who is found to be not satisfying the above criteria will be liable for rejection.

3. Tenderers should upload the following documents in respect of fulfilling their eligibility with **suitable file names as indicated**.

- i. **Copies of detailed work order/s, in respect of similar work/s, indicating scope and value of work/s, completed on or before May 31, 2020, for establishing prior experience before five years (file name eg: WO1, WO2 etc.)**
- ii. **Copies of detailed work order/s, in respect of similar work/s, indicating scope and value of work/s and completion certificate/s in respect of the same work, executed on or after June 1, 2020, for establishing the qualifying works executed by the tenderer during last five years (file name eg: WO1, WO2 etc.),**
- iii. **List of completed works with all the details (File name eg: CW1, CW2 etc.)- In the format of [Annexure I](#).**
- iv. **Profile of the tenderer in the prescribed format.**
- v. **Copy of Certificate of Incorporation**
- vi. **Copy of GST Registration**
- vii. **Details of Bankers as per [Annexure IX](#)**
- viii. **Client certificate regarding performance of the contractor for the qualifying works. (File name eg: CC1, CC2 etc.) – As per the format of [Annexure II](#)**
- ix. **Proof of remittance of EMD/ copy of Bank Guarantee In Lieu Of Earnest Money Deposit as per [Annexure III](#)**
- x. **Banker's Certificate as per [Annexure VI](#)**
- xi. **Copies of Audited financial statement for turnover for last 3 years, i.e., (2022-23, 2023-24 and 2025-25) (File name eg: FS1, FS2 etc.)**
- xii. **Details of service setup (OEM authorized service center) in Thiruvananthapuram /any city of Kerala - In the format of [Annexure VII](#)**
- xiii. **Undertaking for no deviations – As per [Annexure VIII](#)**
- xiv. **The particulars/Catalogues and the names of manufacturers of specified item.**
- xv. **Copy of Power of Attorney as per [Annexure X](#) (Original to be submitted by the successful tenderer to Bank)**
- xvi. **Technical details of proposed system as per Section IX**

- xvii. **Authorisation letter from Original Equipment Manufacturer (OEM) of the offered DG set as per [annexure XI \(part A\)](#) or Declaration of being an OEM for the offered DG set as per [annexure XI \(part B\)](#)**
- xviii. **Any other information relevant to the proposed work**

Note 1:- (Regarding client certificate):

- In respect of Government Departments/Public sector Undertakings the certificate should be signed by the concerned Executive Engineer or an officer in an equivalent or higher rank.
- In respect of Departments other than Government Departments/Public sector Undertakings apart from the certificates mentioned above the TDS certificates matching with the payments related to the work executed shall also be enclosed.

Note 2:- The tenderer shall submit above document/s, in original, as and when demanded by the Bank.

4. Non-submission of the above documents may lead to disqualification of the tenderer.

5. Pre-bid meeting: - A pre-bid meeting will be held at 11.00 AM on July 15, 2025 at Reserve Bank of India, Thiruvananthapuram to discuss/clarify anything about the tender. No separate communication will be sent for this meeting. All the intending tenderers are advised to be present. Clarifications will be uploaded as corrigendum to the tender. Tenderers are advised to see the corrigendum, if any before submitting their bids.

6. The Tenderers are advised to mandatorily visit the site of installation and acquaint themselves of the site conditions before tendering. The tenderers should submit the Proforma of Undertaking for Site Visit by Contractor in Annex.

7. Tenders shall be submitted in two parts viz. Part I containing Pre-qualification criteria and technical and commercial details of the offer and Part II containing prices only latest by 2.00 PM on July 28, 2025. Part I will be opened on 3.00 PM on July 28, 2025. The technical and commercial details of those tenderers who do not qualify the requirements of pre-qualification criteria will not be considered for evaluation. Part II bid of only those tenderers who qualify the requirements of technical and commercial conditions/details will be considered for opening. Opening of Part II will be intimated to the qualified tenderers.

8. Tenderers are advised to verify website for corrigendum, if any before submitting the bid. No clarification will be entertained after 2:00 PM on July 28, 2025.

9. Tenderers are requested to quote base rate and GST separately for each item as specified in the portal. No change in quoted rates will be accepted. Further the AMC rates quoted shall be automatically multiplied by the NPV factor for 10 years (7.0476).

10. The Reserve Bank of India reserves the right to accept or reject any or all the tenders, in full or in part, without assigning any reason therefor. The Bank also reserves the right to accept the tender of any firm

11. **A. Earnest Money Deposit (EMD)**

A. EMD of a sum of **₹94,000/-** shall be remitted to Bank Account of Reserve Bank of India, Thiruvananthapuram. The account details for NEFT/RTGS transactions are as follows. Tenderers are advised to remit EMD well in advance to avoid last minute hassle.

Beneficiary Ac No: **8614038**
 IFSC: **RBIS0THPA01**
 Remarks: **Estate DG SET**

Proof of remittance with transaction number (Scanned copy) shall be attached/ uploaded. The tenderers are also advised to submit the proof of remittance with transaction number (scanned copy) to the Bank.

B. A tender which is not accompanied by such EMD will not be considered. No interest will be paid on EMD. The EMD of the successful tenderer shall be released without any interest on submission of Bank Guarantee of 10% of the contract value as security deposit on award of work. The tenderers who do not qualify the requirements of pre-qualification criteria will be returned the EMD without interest on non-acceptance of their bid. The Earnest Money Deposit of unsuccessful tenderers in Part II shall be released to them without any interest after award of work.

12. Validity of tender:- The tender shall be valid for a period of 90 days from the date of opening of Part I of the tender.

13. The rates quoted shall be inclusive of all taxes, duties, transport, packing, forwarding, insurance etc. and shall be for the complete work duly installed and commissioned at site (**GST to be indicated separately for each item while submitting the bid**). The prices quoted shall remain firm for the entire period of contract and shall not be subjected to any variations in the foreign exchange or variations of any other taxes, levies, duties etc. No import license will be furnished by the Bank. The tenderers shall make their own arrangement for import of any part or components, if any, required for completion of the work.

14. **Period of Completion of work:** - The entire work of supply, installation, testing and commissioning of the system shall be completed within a period of **3 months from the 10th day** of issue of work order.

15. **Damages for non-completion:** If the Contractor fails to complete the works within tender specified completion period, the Contractor shall pay the Employer at rate of 0.25 % of the contract amount, per week, for the period during which the said works shall so remain incomplete, subject to a maximum of 10% of the contract amount and the Employer may deduct such damages from any money due to the Contractor.

16. **Service set-up:** The tenderers shall indicate details of the service set-up (**OEM authorized service center**) in Thiruvananthapuram/ any city of Kerala as per enclosed [annexure-VII](#).

17. **Warranty/ Defect Liability period and Non- Comprehensive Annual Maintenance Service contract:**

- a. The equipment supplied shall be guaranteed against all types of defects for a defect liability period of **one year** from the date of virtual completion. Any defects in the system/sub-assemblies, found within the guarantee period, shall be rectified/ replaced by the tenderer without any additional cost to the Bank. The rate should include for servicing/ inspection at **monthly interval or earlier** as prescribed by the manufacturer and as mutually agreed to during this period. However, cost of consumables such as engine oil, filters etc. will be paid by the Bank.
- b. The charges for **Non- comprehensive annual maintenance service (Labour only)**, to be provided after the expiry of the one year guarantee period, shall be quoted by the tenderer separately in their bid. During the **Non- Comprehensive Annual Maintenance Service Contract** period, the maintenance/ servicing shall be carried out at **monthly interval or earlier** as prescribed by the manufacturer and as mutually agreed and the same shall be carried out in addition to any number of breakdown calls. These rates shall be applicable from the date of expiry of one year guarantee period. Non- Comprehensive annual maintenance service charges shall be paid on half yearly basis on rendering satisfactory service and on submission of service reports. All breakdowns, maintenance and overhauling shall also be under the scope of non- comprehensive AMC. Bank shall have the right to procure the material required for maintenance of the system from the open market and hand over the same to the AMC contractor to carry out the maintenance/overhauling.
- c. AMC should cover **Engine, alternator and control and AMF panel**.
- d. During the warranty period or the non- comprehensive annual maintenance service period, any fault in the system shall be attended within 8 hours of receipt of intimation of the defect in the system. The quoted rates shall, therefore, take into account all the cost, including travel cost from the nearest service station. A penalty of **Rs.500/- per DG Set per day** will be levied, if the defect in the system is not rectified within the period of 8 hours during the AMC period as stated above. In addition to this, if the system **is not rectified within the period of 10 days, the Bank shall have right to rectify the system at risk and cost of the contractor. The Bank shall have also right to invoke the Bank Guarantee as a penalty for delay in rectifying the system and terminate the contract, if service rendered by the contractor is found to be unsatisfactory.**
- e. The service contract shall be valid for a further additional period of at least **8 years** after the initial annual service contact period of **one year after one-year warranty**. After 1st year of service contract, the new service contract amount will be arrived at based on following formula.

$A_C = A_P[(15+85(CPI_C/CPI_P))] \times (1/100)$	
A_C	The contract amount for the current year.
A_P	The contract amount for the previous year.

CPI_C	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year.
CPI_P	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year.

18. Evaluation of tenders:- Tenders will be evaluated on the basis of Net Owning Cost of the System comprising of the Capital Cost of the system(A) and taking into account the effect of rates quoted for non-comprehensive Annual Maintenance service contract charges (AMC)(B) for a period of 9 years after the expiry of one year defect liability period.

Net Owning cost shall be the total of Capital Cost of the System (A) plus the NPV of non-comprehensive annual maintenance Service contract charges for the period of 9 years after 1 year defect liability period.

NPV Factor will be calculated assuming 5% increase in contract amount every year after first year of AMC, half yearly payment and a discount rate of 8%.

Net Owning Cost of System = {(Capital Cost (A) + (AMC Charges (B) x MF)) – Buyback}

(MF is the NPV factor for 10 years (1yr warranty+9 year AMC) = 7.0476)

19. Testing of DG sets:

- a. DG sets along with control panel shall be tested, before dispatch, in the manufacturer's factory/contractor's works to ascertain the compliance of offered specifications.
- b. The successful tenderer will arrange staff/ fuel/ consumables for test run at his cost.
- c. For testing, following procedure will be followed: All major items/ equipments i.e. engine & alternator in assembled condition, associated electrical control panels etc. shall be offered for inspection and testing at factory/ manufacturers works. The successful tenderer shall give a notice of minimum two weeks for carrying out such tests. The Bank's Engineer or his authorized representative shall witness such inspection & testing at mutually agreed date. The cost of the representative's visit to the factory will be borne by Bank.
- d. DG set will be tested on load of unity power factor for the rated KW rating. During testing, the D. G. Set covered under scope of work, shall be operated for a period of **one hour on the rated KW** at DG set's KW rating and **one hour on 10% overload** after continuous run of one Hour. During testing all controls/ operations safeties will be checked and proper record will be maintained. Any defect/ abnormality noticed during testing shall be rectified. The testing will be declared successful only when no abnormality/ failure is noticed during the testing. The DG set will be cleared for dispatch to site only when the testing is declared successful by the Bank's Engineer.

20. Terms of payment:-

The following terms of payment, subject to statutory deductions, will apply to the contract:

- (a) First 60% of the value of contract amount shall be released, on pro rata basis, after

the equipment/s is/are tested in the factory and on delivery of the same together with other materials including control panel, AMF panel and are accepted at site by the Employers authorized representatives and on submission of the following documents:

- i. Contractor's Certificate that all components, parts, sub systems, consumables, etc. for successful installation, commissioning and testing of the systems including maintenance have been received at site in good condition and if any shortfall is noticed during installation, commissioning and testing they will be supplied free to the Bank.
 - ii. Submission of insurance policies mentioned in the tender.
- (b) 40% of the contract amount against erection, testing, commissioning and handing over of the entire system at site, submission of statutory approval, if any, on submission of a Bank Guarantee amounting to 10% of the contract amount, initially valid for one year, in a form ([Annexure-IV](#)) acceptable to the Bank as security against due fulfillment of the terms and obligations of the Contract, guarantee period and service contract for the entire life cycle of the equipment.

21. Retention Money Deposit: Retention Money @ 5% will be recovered from each on-account bill till the total recovery amounts to 5% of the contract value as stipulated in the tender document and the same will be released after the DLP period of one year.

22. Bank Guarantee as security deposit (BG):-

- (a) The vendor has to submit the initial BG amounting to 10% of the contract amount on award of work as the security money to complete the DG Set installation work. The BG shall be valid till the date of commissioning & handing over of the system plus three months and shall be suitably extended till completion of the work plus three (3) months in case of extension of contract period. On submission of the BG, the EMD amount shall be released. Such Performance Bank Guarantee (PBG) should be submitted to the Bank within 15 days of the issue of work order. This BG shall be released after submission of fresh PBG for an amount equal to 10% contract amount as mentioned in para 25.
- (b) Successful tenderer failing to furnish the Performance Bank Guarantee within stipulated time-period shall be liable for penalty and their tender shall be liable to be cancelled and the EMD deposited shall be enforced without prejudice for further loss or damage.
- (c) The Bank Guarantee towards EMD shall be suitably extended, if necessary, for the successful tenderer till the date fixed by the Bank for furnishing the PBG towards security deposit for the due fulfilment of the contract.

23. Performance Bank Guarantee towards the defect liability period and during AMC (PBG)-The estimated life cycle of the DG Set is 10 years. Hence, the initial PBG amounting to 10% of the contract amount shall initially, remain valid for 5 years from the date of commissioning & handing over of the system. Thereafter, Bank guarantee will be reduced by fifty percent (50%) of initial value for the next 5 (five) years. The Contractor shall submit a fresh PBG before four weeks of expiry of the existing BG. If the contractor fails to submit a fresh PBG within the time limit, Bank will have right to invoke the submitted BG.

The Bank also reserves the right to enforce the Bank Guarantee in case of unsatisfactory performance of the terms, conditions of DLP and NCMSC set out in the tender at any time during the currency of committed period of 10 years.

24. Insurance- The Contractor shall at his own expense, arrange to effect and maintain (until the virtual completion of the contract) with an IRDA approved office the following insurance policies in the joint name of employer and himself with the employer being first and deposit such policy or policies with the employer during the currency of this contract.

- a. Storage, erection, testing and commissioning policy for the total amount of contract.
- b. Workmen compensation policy.
- c. Third party liability policy with the limits as under.
 - I. Rs.10,00,000/- per annum
 - II. Rs.2,00,000/- per occurrence

25. Works to be arranged by the contractor:

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not:

- a) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- b) All supports for exhaust, cables, anti-vibration pads etc. as necessary.
- c) Painting of all exposed metal surfaces of equipments and components with appropriate colour.
- d) Clearance/ Approval of the complete installation from CPCB/ State Pollution Control Board, Central Electricity Authority (CEA)/ Local Bodies and other licensing authorities, wherever required, if any. Bank will make payment for any statutory payment on production of evidences.

26. COMPLETENESS OF THE TENDER, SUBMISSION OF PROGRAMME, APPROVAL OF DRAWINGS AND COMMENCEMENT OF WORK

a) Completeness of the tender

All sundry equipments, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other sundry items for proper assembly and installation of the various equipments and components of the work shall be deemed to have been included in the tender, irrespective of the fact that whether such items are specifically mentioned in tender documents or not.

b) Submission of programme

Within fifteen days from the date of receipt of the letter of acceptance, the successful tenderer shall submit his programme for submission of drawings, supply of equipment, installation, testing, commissioning and handing over of the installation to the Engineer-in-Charge. This programme shall be framed keeping in view of minimum shutdown period.

c) Submission of Drawings:

The contractor shall submit the drawings to the Engineer-in-Charge for approval before start of work.

d) Commencement of Work:

The contractor shall commence work as soon as the drawings submitted by him are approved.

27. Drawings for approval:

The contractor shall prepare & submit the following drawings and get them approved from the Engineer-in-charge before the start of the work. The approval of drawings however does not absolve the contractor not to supply the equipments/ materials as per agreement, if there is any contradiction between the approved drawings and agreement.

- (a) Lay out drawings of the equipments to be installed including control cables, fuel/lube oil pipes and supports /structure for exhaust piping, Chimney and bus ducts/ cable trays.
- (b) Drawings including section, showing the details of erection of entire equipment.
- (c) Electrical wiring diagrams from engine-alternator set to Electrical control panel,
- (d) Dimensioned drawings of Acoustic enclosure/ Engine-Alternator set and Electrical control panel.
- (e) Drawings showing details of supports for pipes, chimney cable trays, ducts, etc.
- (f) Any other drawings relevant to the work.

28. Drawings/ Documents to be furnished on completion of Installation: Three sets of the following laminated drawings shall be submitted by the contractor while handing over the installation to the Department.

- (a) DG set installation drawings giving complete details of all the equipments.
- (b) Line diagram and layout of all electrical control panels giving switchgear ratings and their disposition, cable feeder sizes and their lay out.
- (c) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits control panel.
- (d) Manufacturer's technical catalogues of all equipments and accessories.
- (e) Operation and maintenance manual of all major equipments, detailing all adjustments, operation and maintenance procedure.

29. The payment for the system will be made by RBI, Thiruvananthapuram. Any dispute arising out of this contract will also be sorted out within the jurisdiction of courts situated in Thiruvananthapuram.

30. Training: The tenderer shall impart training to the Bank's Engineers/Technicians on the system before handing over of the system without any charge to the Bank.

31. Agreement: The successful tenderer shall execute an agreement with the Bank on a non-judicial stamp paper in the format in [annexure V](#) enclosed within 14 days of receipt of letter of acceptance. However, the issue of letter of acceptance by the Bank shall be construed as a binding contract, as though such an agreement has been executed and all the terms and conditions shall apply on this contract

32. All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after completion and whether before or after the determination abandonment or breach of the contract) shall be referred to and settled by the Bank who shall state its decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Bank with respect to any of the excepted matters shall be final and without appeal as stated in hereof. But if either the Contractor be dissatisfied on any matter on which a decision is taken by the Bank as above, except any of the expected matter the Contractor may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree, a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two arbitrators nominated by the parties shall nominate one more person to act as third arbitrator.

The arbitrator or Arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid.

The arbitrator or Arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the Arbitrator or the Arbitrators as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and Award respectively shall be in the discretion of the arbitrator or Arbitrators as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or Arbitrators, as the case may be, shall be final and binding on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the Arbitrator or Arbitrators, as the case may be, is given, abide by the decision of the Bank. No award of the Arbitrator or Arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's

instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right of action under the Contract.

33. Jurisdiction: - All disputes arising out of or in any way connected with this contract/agreement shall be deemed to have arisen at Thiruvananthapuram and only Courts in Thiruvananthapuram shall have jurisdiction to determine the same.

Section III
Safety Code

1. First aid appliances including adequate supply of sterilized dressings and cotton wool shall be provided in a readily accessible place.
2. An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all work that cannot safely be done from ground.
4. No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding the ladder.
5. The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of trench, whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
6. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing; minimum height shall be one metre.
7. No floor, roof or other part of the structure shall be so overloaded with debris of materials as to render it unsafe.
8. Workers employed on mixing and handling material such as asphalt, cement mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
9. Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.
10. i) No paint containing lead or lead products shall be used except in the forms of paste or readymade paint.
ii) Suitable face masks shall be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
11. Overalls shall be supplied by the Contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during the period of cessation of work.
12. Hoisting machines and tackle used in the works, including their attachments, anchorage and support shall be in perfect condition.
13. The ropes used in hoisting or lowering material or a means of suspension shall be of durable quality and adequate strength and free from defects.
14. The contractor shall provide all the safety gadgets to the workers for carrying out the work as per statutory norms.
15. During the work execution necessary fire safety measures shall also be taken.

Section IV
FIRE SAFETY

1. Cutting / drilling machine and other electrically operated equipments used at site shall be plugged into correctly rated electrical outlets.
2. Only ISI marked 3 pin plug and other appliances and equipments shall be used.
3. Electrical power cables/wires used shall not have any joints and shall be properly rated.
4. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.
5. Before commencing the welding work for the first time on any day, fire section shall be informed and only after the site inspection by the Fire officers/Personnel, work shall be started.
6. Two buckets of water and sand shall be kept in an easily accessible area on the site.
7. Fire extinguishers recommended and issued by fire officers shall be kept on the site.
8. Used paint drums shall be stored in specified store only after closing them properly.
9. Personal protective equipments such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.
10. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10' from Ground level.
11. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.
12. Both the staircase doors shall be normally kept closed.
13. None of the fire extinguishers shall be removed/shifted from its designated location.
14. Power supply shall be switched off from the mains when equipment is not in use.
15. Wood-shavings and saw-dust generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
16. Any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
17. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

Section V

The Conditions Hereinbefore Referred To

1. In constructing these conditions, the specification, schedule of quantities and Contract Agreement, the following words shall have the meaning herein assigned to them except where subject or context otherwise requires.

- | | |
|---------------------------|--|
| a) "Employer" | Shall mean the Reserve Bank of India and shall include its assignees and successors. |
| b) In the case of company | "Contractor shall mean _____ a company incorporated under _____ and _____ having its registered office at _____ and shall include its successors and assigns. |
| c) "Site" | Shall mean the site of the contract works including any building and erection thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor's use. |
| d) "This Contract" | Shall mean the Article of Agreement, the special conditions, the conditions, the Appendix, the schedule of quantities and specifications attached hereto and duly signed. |
| e) "Notice in writing" | Shall mean a notice in written, typed or printed or written notice" characters sent (unless delivered personally otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered. |
| f) "Act of Insolvency" | Shall mean any Act of insolvency as defined by the Presidency Town Insolvency Act, or the provincial insolvency Act or any Act amending such original Act. |
| g) "Net Prices" | If in arriving at the contract amount the Contractor shall have added to or deducted from the total of items in the Tender any sum, either as a percentage or otherwise, then net price of any item in their tender shall be the sum arrived at by adding to or deducting from the actual figures appearing in the Tender as the price of that the item a similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor the total amount of the any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The |

expression "net rates" or "net prices" when used with reference to the contract or account shall be held to mean rates or prices so arrived at.

h) "The works"

Tender for Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram.

2. **Scope of Contract:** The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Bank's Engineer. The Bank's Engineer may in his absolute discretion and from time to time issue further drawings and/or written instructions, details, direction and explanations which are hereafter collectively referred to as "Bank's Engineer's instruction in regard to":

- a) The variations or modifications of the design, quality or works or the addition or omission or substitutions of any work.
- b) Any discrepancy in the Drawing or between the Schedule of Quantities and/or Drawing and/or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and the substitution of any other material therefor.
- d) The removal and/or re-execution of any works executed by the contractor.
- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspections of any work covered up.
- g) The amending and making good of any defects under clause 20 hereof.

The contractor shall forthwith comply with and duly execute any work comprised in such Bank's Engineer's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Bank's Engineer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, such shall be deemed to be Employer's instructions within the scope of the Contract.

The contractor shall submit a statement of variations giving quantity and rates duly supported by analysis of rates, vouchers etc. The rates on scrutiny and final acceptance by the Employer shall form a supplementary tender. The Employer shall not be liable for payment of such variations until these statements are sanctioned by him.

3. The Contract shall be executed in triplicate and the Bank's Engineer, the Employer and the Contractor shall be entitled to one executed copy each for his use. The contractor shall prepare the line diagram, system configuration drawing and Lay out plan of the site for carrying out the work. Before the issue of the final certificate to the Contractor he shall submit to the Bank's Engineer all Drawings and Specifications.
4. **The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, Schedule of Quantities and specifications taken together, whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of quantities and Specifications,**

he shall immediately and in writing refer the same to the Bank's Engineer, who shall decide which is to be followed.

5. **Authorities, notices and patents**: The Contractor shall conform to the provisions of any Act of the Legislature relating to the works, and to the regulations and bye-laws of any authority, and of any water, electricity supply and other companies and/or authorities with whose system the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming, give to the architect written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor shall not within ten days receive such instructions he shall proceed with the work conforming to the provisions, regulations, or bye-laws in question, and any variation so necessitated shall be dealt with under clause 17 hereof.

The contractor shall bring to the attention of the Employer all notices required by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority or to any public office all fees that may be properly chargeable-in respect of the works and lodge the receipts with the Employer.

The Contractor shall indemnify the Employer against all claims in respect of patent rights, and shall defend all actions arising from such claims and shall himself pay all royalties, licence fees, damages cost and charges of all and every sort that may be legally incurred in respect thereof.

6. **Setting out of work**: The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions levels, dimensions and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works or within a period of one year from the completion of the works, the Contractor shall, if so required, at his own expense rectify such error to the satisfaction of the Bank's Engineer.
7. **Materials and Workmanship to conform to description**: All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or specifications and in accordance with the contract and the Contractor shall furnish to the Employer with all invoices, accounts, receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials.
8. **Contractor's superintendence and representative on the works**: The Contractor shall give all necessary personal superintendence during the execution of the works and so long thereafter as the Employer may consider necessary until the expiration of the "Defects Liability Period" stated in the Appendix hereto. The contractor shall, also during the whole time the works are in progress employ a competent representative who shall be constantly in attendance at the works while the men are to work. Any directions, explanations, instructions or notice given by the Bank's Engineer to such representative shall be held to be given to the Contractor.
9. **Dismissal of workmen**: The Contractor shall on the request of the Bank's Engineer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Bank's Engineer, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Bank's Engineer.

10. **Access to works:** The Employer, shall at all reasonable times, have free access to the works and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer necessary for Inspections and examination and test of the materials and workmanship. No person not authorised by the Employer except the representatives of public authorities shall be allowed on the works at any time.
11. **Bank's Engineer:** The term Bank's Engineer shall mean the person appointed and paid by the Employer to inspect the works. The Contractor shall afford the Bank's Engineer every facility and assistance for inspecting the works and materials and for checking and measuring time and materials.

The Bank's Engineer, or the Employer shall have power to give notice to the Contractor or to his representative of non-approval or any work or materials and such work shall be suspended or the use of such materials shall be discontinued. The work will from time to time be examined by the Assistant Manager (Tech.) but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at a stage of the works or after the same is completed. Subject to the limitations of this clause the Contractor shall take instructions only from the Bank's Engineer.

12. **Assignment and Subletting:** 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 under-let the Contract or any part share thereof or any interest therein without the prior written consent of the Employer and not undertaking shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the works during their progress.
13. No alteration, omission or variation shall vitiate this contract but in case the Bank's Engineer thinks proper at any time during the progress of the works to make any alterations in, or addition to, or omissions from the works or any alteration in the kind of quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Contract. Stipulations, specifications or Contract Drawings without the previous consent in writing of the Employer and the value of such extras alterations, additions or omission shall, in all cases, be determined by the Employer in accordance with the provisions of Clause 17 hereof, and the same shall be added to, or deducted from the Contract Amount, as the case may be accordingly.
14. **Schedule of Quantities:** The Schedule of quantities, unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Method of Measurement.

Any error in description or in quantity or in omission of items from the schedule of quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained under Clause 17 hereof, shall be added to, or deducted from the Contract Amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's schedule of rates.

15. **Sufficiency of Schedule of Quantities**: The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or the schedule of rates and prices which rates and prices shall cover all his obligations under the contract, and all matters and things necessary for the proper completion of the works.
16. **Measurement of works**: The Bank's Engineer may, from time to time, intimate to the contractor that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified agent to assist Assistant Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such agent then the measurement taken by the Bank's Engineer or a person approved by him shall be taken to be correct measurement of the works. Such measurements shall be taken in accordance with the Mode of Measurements detailed in the Specifications.

The Contractor or his Agent may at the time of measurement take such notes and measurement as he may requires.

All authorised extra works, omissions and all variations made with the prior approval in writing of Employer shall be included in such measurements.

17. **Prices for extra**: The Contractor may, when authorised and shall, when directed, in writing by the Employer, add to, omit from or vary the works shown upon the drawings, or described in the specification, or included in the schedule of Quantities, but the contractor shall make no addition, omission or variation without such authorisation or direction. A verbal authority or direction by the Bank's Engineer shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.

No claim for an extra shall be allowed unless it shall have been executed under provisions of clause above hereof with the concurrence of the Employer herein mentioned. Any such extra in herein referred to as authorised and shall be made in accordance with the following provisions.

- (a) (i) The net rates or prices in the original tender shall determine the valuation of the extra work where such extra work in similar character and executed under conditions as the work priced therein.
- (ii) Rates for all items, wherever possible should be derived out of the rates given in the priced Schedule of Quantities.
- (b) The net prices of the original tender shall determine the value of items omitted provided if omissions vary the conditions under which any remaining items of works are carried out, the prices for the same shall be valued under sub-clause(c) hereof.
- (c) Where the extra works are not of similar character and/or quoted under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omissions or additions relative the amount of the whole of the Contract works or to any part thereof shall be such that in the opinion of the Bank's engineer, the net rate or price contained in the priced Schedule of Quantities or tender or for any item of the works involves loss or expenses beyond that reasonably contemplated by the contractor or is by reason of such omission or addition rendered unreasonable or inapplicable, the Bank's Engineer shall fix such other rate or price as in

the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer.

- (d) Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices as the net rates stated in the tender or the Priced Schedule or Quantities or, if not so stated, then in accordance with the local day work rates and wages for the district provided that in either case vouchers specifying the daily time (the workmen's names) and materials employed be delivered for verification to the Bank's Engineer at or before the end of the week following that in which the work has been executed.

The measurement and valuation in respect of the Contract shall be completed within the "period of final measurements" stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in Clause 21 hereof.

18. Unfixed materials when taken into account to be the property of the Employer

Where in any certificates (of which the Contractor has received payment) the Bank's Engineer has included the value of any unfixed materials included for and/or placed on or adjacent to the works such materials shall become the property of the Employer and they shall not be removed except for use upon the works, without the written authority of the Employer. The Contractor shall be liable for any loss of, or damage to, such materials.

19. **Removal of improper work** : The Employer shall, during the progress of the works, have power to order in writing from time to time the removal from the works within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Bank's Engineer are not in accordance with the Specifications, the substitutions of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the drawings & specifications or instructions and the contractor shall forthwith carry out such order at his own cost. In case of default on the part of Contractor to carry out such order, the Employer shall have the power to employ any pay other persons to carry out the same; and all expenses consequent thereon, or incidental thereto, shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

20. **Defects after virtual completion** : Any defect, shrinkage, settlement or other fault which may appear within the "Defects Liability Period" stated in the Appendix hereto, or, if none stated then within twelve months after the virtual completion of the works, arising in the opinion of the Employer from materials of workmanship not in accordance with the contract, shall upon the direction in writing of the Employer, and within such reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default the Employer may employ and pay other persons to amend and make good such defects, shrinkage settlements or other faults, and all damages loss and expenses consequent thereon are incidental thereto shall be made good and borne by the Employer or may be deducted by the Employer, upon the Bank's Engineer's Certificate in writing, from any money due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any money due to the Contractor a sum, to be determined by the Employer equivalent to the cost of amending such work and in the event of the amount retained under clause 32 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done

or materials supplied by any sub-contractor employed on the works who has been nominated as provided under clause 12 and 22 hereof, the contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provision of this clause 2 hereof. The contractor shall remain liable under the provisions of this clause the signing of any certificate or the passing of any accounts by the Employer.

21. **Certificate of virtual completion and defects liability period:** The works shall not be considered as completed until the Bank's Engineer has certified in writing that they have been virtually completed. The defects liability period shall commence from the date of such certificates.
22. **Nominated Sub-Contractor:** All Specialists, Merchants, Tradesmen and others executing any work of supplying and fixing any goods for which the prime cost prices or provisional sums are included in the Schedule of Quantities and/or Specifications who may be nominated or selected by the Employer or hereby declared to be sub-contractors employed by the contractor and are herein referred to as nominated sub-contractors.

No nominated sub-contractors shall be employed on or in connection with the works against the Contractor shall make reasonable objection are (save where the Architect and the Contractor shall otherwise agree) who will not enter into contract providing.

- (a) That the nominated sub-contractor shall indemnify the contractor against the same obligation in respect of the sub-contract as the contractor is under in respect of this contract.
 - (b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractors his servants or agents or any misuse by him or them or any scaffolding or other plant, the property of the Contractor or under any Workmen's Compensation Act in force.
 - (c) Payment shall be made to the nominated sub-contractor within fourteen days of his receipt of the Employer's Certificate provided that before any Certificate is issued the Contractor shall upon request furnish to the Bank proof that all nominated sub-contractors accounts included in previous certificates have been duly discharged; in default whereof the Employer may pay the same upon a Certificate of the Bank and deduct the amount thereof from any sums due to the Contractor. The exercise of this power shall not create private of contract as between Employer and Sub-Contractor.
23. **Other persons employed by Employer:** The Employer reserves the right to use premises and any portion of the site for the execution of any work not included in this Contract which it may desire to have carried out by other persons, and the Contractor shall allow all reasonable facilities for the execution of such work but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. Such work shall be carried out in such manner as not to impede the progress of the works included in the Contract and the Contractor shall not be responsible for any damage or delay which may happen to or occasioned by such work.
24. **Insurance in respect of damage to person and property:** The Contractor shall be responsible for all injury to persons, animals or things, and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any nominated sub-contractor or any employee of either, whether such injury or damage arises from carelessness accident or any

other clause whatever in any connected with the carrying out of this Contract. This clause shall be held to include inter alia, any damage to buildings, whether immediately adjacent or otherwise, and any damage to road, streets, foot-paths, bridges or ways as well as damage caused to the buildings and works forming the subject of this contract by frost, rain, wind or other inclemency of weather. The Contractor shall indemnify the Employer and hold it harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of any legislature or otherwise and also in respect of any award or compensation or damages consequent upon such claim.

The Contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver up the whole of the Contract works complete to and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

An insurance policy covering third party liability shall be taken by the contractor to cover the loss/disablement of human life (persons not belonging to the contractor). This shall also cover the risk of damages to other's materials/equipment/properties including those, if any of the banks during construction/erection/commissioning of the said contract work at site. The value of third party liability for compensation for loss of human life or full /partial disablement shall be of required statutory value for full and partial disablement and shall nevertheless cover such compensation as may be awarded by a court of law. Cover for damage to other's equipment/property shall be as approved by the bank. The sub-contractors of the contractor shall not be holders or beneficiaries in the policy nor shall they be named in the policy. The bank shall be the principal holder of the policy along with the contractor. The bank reserves the exclusive right to assign the policy.

The Contractor shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of anything which may arise in respect of the works or in consequences thereof and shall at his own expenses arrange to effect and maintain, until the virtual completion of the contract, with an approved office a policy of insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during the currency of this contract. The Contractor shall also similarly indemnify the Employer, against all claims which may be made upon the Employer whether under the Workmen's Compensation Act or any other status in force during the currency of this contract or at common law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expenses effect and maintain, in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during currency of the Contract.

The Contractor shall be responsible for any liability which may be executed from the Insurance Policies above referred to and also for all other damage to any person, animal or property arising out of the incidental to the negligent or defective carrying out of this Contract transit, storage, erection, testing & commissioning policy. He shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damages arising therefrom.

The Employer shall be entitled to deduct the amount of any damage, compensation, costs, charges and expense arising of accruing from or in respect of any such claims or damage from

any or all sums due or to become due to the Contractor without prejudice to the Employer's other rights in respect thereof.

25. **Insurance:** The contractor shall, within 14 days from the date of commencement of the works, insure the works at his cost and keep them insured until the virtual completion of reworks, against loss or damage by fire with an office **in the joint names of the employer and the contractor (the name of the former being placed first in the policy) for the full amount of the contract.** Such policy shall cover the property of the "Employer" only. **The contractor shall deposit the policy and receipts for the premium with the employer within twenty-one days from the commencement of the works.** In default of the contractor, insuring as provided above, the employer may so insure the works and may deduct the premium paid from any moneys due or which may become due to the Contractor without prejudice to the other rights of the Employer in respect of such default. In case it becomes necessary to suspend the works, the Contractor shall as soon as the claim under the policy is settled, or the work reinstated by the Insurance Office, should they elect to do so, proceed with all due diligence with the completion of the works in same manner as though the fire had not occurred and in all respects under the same conditions of Contract. The Contractor in case of rebuilding or reinstatement after fire shall be entitled to such extension of time for completion as deems fit.
26. **Date of commencement and completion:** The Contractor shall be allowed admittance to the site on "Date of Commencement" stated in the Appendix hereto, or each later date as may be specified by the Employer and shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such painting or other decorative work as the bank may desire to delay) or before the "Date of Completion" stated in the Appendix subject nevertheless to provisions for extension of time hereinafter contained.
27. **Damages for non-completion:** If the Contractor fails to complete the works by the date stated in the Appendix or within any extended time under Clause 26 and 20 here the Contractor shall pay the Employer the sum named in the Appendix as " Liquidated Damages" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any money due to the Contractor.
28. **Delay and extension of time:** If in the opinion of the Employer the works be delayed(a) by force majeure or (b) by reason of any exceptionally inclement weather or c) by reason of proceedings taken or threatened by or dispute with adjoining or neighbouring owners or public authorities arising otherwise than through contractor's own default or (d) by the works or delays of other contractor or Tradesmen engaged or nominated by the Employer and not referred to in the schedule of quantities and/or specifications or (e) by reasons of Bank's Engineer instruction as per clause 17 hereof (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Bank for which he shall have specifically applied in writing or (h) from other causes which the Bank may certify as beyond the control of contractor or (l) in the event, the value of the work exceed the value of the Priced Schedule of Quantities owing to variation, the Bank may make a fair and reasonable extension of time for completion shall as soon as may be given written notice thereof to the bank but the Contractor shall nevertheless constantly use his endeavours to prevent delay and shall do all that may reasonably has required to the satisfaction of Bank to proceed with work.

29. **Contractor's failure to comply with Employers instruction:** If the Contractor after receipt of written notice from the Employer requiring compliance within 10 days fails to comply with such further drawings and/or Bank's instructions the Employer may employ and pay other persons to execute any such work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Employer as a debt or may be deducted by him from any moneys due to the Contractor.
30. **Termination of Contract by the Employer:** If the Contractor being an individual or a firm commits any "act of insolvency" or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the supervisions of the court and the Official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so to show the reasonable satisfaction of the Architect that he is able to carry out and fulfill the Contract and to give security therefore, if so required by the Architect.

Or if the Contractor (whether an individual, first or incorporated company shall suffer execution or other process of court attaching property to be issued against the Contractor.

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Contractors.

Or shall assign to sublet this Contract without the consent in writing of the Employer first had and obtained.

Or shall charge or encumber this Contract or any payments due or which may become due to the Contractor hereunder.

- (i) Has abandoned the Contract, or
- (ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progresses of the works for fourteen days after receiving from the Bank notice to proceed or
- (iii) Has failed to proceed with the work with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- (iv) Has failed to remove materials from the site or to pull down and replace work for seven days receiving from the Bank written notice that the said materials or work were condemned and rejected by the Bank's Engineer under these conditions' or
- (v) Has neglected or failed persistently to observe and perform all of any of the acts, matter or things by the Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases the Employer may, notwithstanding any previous waiver, after giving seven days' notice in writing to the Contractor, determine the Contract, the whole of which shall continue in force as fully as if the Contract has not been so determined, and so if the works subsequently execute had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and taken possession of the works and all

plant, tools scaffoldings, sheds, machinery, steam and other power utensils and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the work or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act matter or thing to prevent or hinder such other contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Bank shall give a notice in writing to the Contractor to remove his surplus materials and plant, and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realized. The employer shall thereafter ascertain and certify in writing under his hand what of the said plant and materials so taken possessions or by the Employer and the expenses or loss which the Employer shall have been put to in procuring the works to be completed and the amount. If any, owing the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the Certificate of the Bank shall be final and conclusive between the parties.

31. **Termination of Contract by Contractor:** If this payment of the amount payable by the Employer under Certificate of the Bank's Engineer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Employer, or if the Employer interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Architect or the Employer or by any injunction or other order of any court of Law, then and in any of the said cases the Contractor shall be in liberty to determine the Contract by notice in writing to the Employer, and he shall be entitled to recover from the Employer, payment for all works executed and for any loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose or the Contract.

In arriving at the amount of such payment the net rates contained in the Contractor's original Tender shall be followed or where the same may not apply valuation shall be made in accordance with Clause 17 hereof.

32. **Certificates and Payments:** The Contractor shall be paid by the Employer from time to time by installments under interim Certificate to be issued by the Bank's Engineer on account of the works executed work to the approximate value named in the Appendix as 'Value of work for Interim Certificate' has been executed in accordance with this Contract, subject, however, to a retention of the percentage of such value named in the Appendix as "Total Retention Money" after which time the installments shall be up to the full value of the work subsequently so executed and fixed in the building. And when the works have been virtually completed, the Contractor shall be paid by the Employer in accordance with the Certificate to be issued by the Bank's Engineers the sum of money named in the Appendix as "installment after Virtual Completion" being a part of the said Total Retention Money. And the Contractor shall be entitled to the payment of the Final Balance in accordance with the final Certificate at the expiration of the period referred to as 'the Defects liability Period' in the Appendix hereto from the date of virtual completion or as soon as after expiration of such period as the works shall have been finally completed and all defects made good according to the true intent and meaning hereof whichever shall last happen provided always or at or after their completion shall not relieve the Contractor from his liability under clause 21 and

36 nor relieve the Contractor of his inability in cases of fraud, dishonesty, or fraudulent concealment relating to the works or materials or to any matter dealt with in the Certificate and in case of the all defects and insufficiencies in the works or materials which a reasonable examination would not have disclosed.

The Employer shall have power to withhold any Certificate if the works or any parts thereof are not being carried out to his satisfaction.

33. **Delayed Payment:** Any amounts payable by the Employer to the Contractor shall, if not paid within the 'period of honouring Certificates' names in the Appendix carry interest at the rate named in the Appendix as the "Rate of interest for delayed payment" from the date upon which sum ought to have been paid by the Employer until the payment.
34. The decision, opinion, direction Certificate (except for payment) with respect to all or any of the matters under Clauses 2(a,b), 4,5, 14, 20 (a,b,c,d and f) hereof (which matters are herein referred to as the excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction, shall be subject to the right of Arbitration and review under the Clause 35 hereof in the same way in all respects (including the provisions as to opening the reference).
35. **Settlement of disputes by Arbitration:** All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after the completion and whether before or after the determination abandonment or breach of the contract) shall be referred to and settled by the Bank who shall state its decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Bank with respect to any of the excepted matters shall be final and without appeal as stated in Clause 33 hereof. But if either the Contractor be dissatisfied on any matter on which a decision is taken by the Bank as above, except any of the expected matter the Contractor may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree, a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two arbitrators nominated by the parties shall nominate one more person to act as third arbitrator or umpire.

The arbitrator or Arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid.

The arbitrator or Arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the Arbitrator or the Arbitrators as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and Award respectively shall be in the discretion of the arbitrator or Arbitrators as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or Arbitrators, as the case may be, shall be final and binding on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the Arbitrator or Arbitrators, as the case may be, is given, abide by the decision of the Bank. No award of the Arbitrator or Arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right of action under the Contract. The venue of arbitration shall be RBI Thiruvananthapuram.

Right of technical scrutiny of final bill

36. The Employer shall have a right to cause a technical examination of the works and the final bill of the contractor including all supporting vouchers, abstracts, etc. to be made at the time of payment of the final bill. If as a result of this examination of otherwise any sum is found to have been overpaid or over certified it shall be lawful for the employer to recover the sum.

Employer entitled to cover compensation paid to workman

37. If, for any reason, the Employer is obliged, by virtue of the provisions of the Workmen's Compensation Act, 1923, or any statutory modification or re-enactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the Contractor the amount of compensation so paid, and without prejudice to the rights of the Employer under the said Act. The Employer shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by the Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the Contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

Abandonment of works

38. If at any time after the acceptance of the tender, the Employer shall for any reasons whatsoever not requires the whole or any part of the works to be carried out, the Bank shall give notice in writing to the Contractor who shall have no claim to any payment of compensation or other-wise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

Return of surplus materials

39. Notwithstanding anything to the contrary contained in any or all the clauses of this Contract, where any material for the execution of the Contract is procured with the assistance of the Employer by purchase made under orders or permits or licenses issued by Government, the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose of them without the prior written permission of the Employer and return it to the Employer, if required by the Employer, at the price to be determined by the Bank having due regard to the conditions of the materials, the price to be determined not be exceed the purchase price thereof inclusive of sales tax, octroi and other such levies paid by the Contractor in respect thereof, in the even of breach of the aforesaid condition, the Contractor shall in addition to being liable to action for contravention of the terms of licenses or permit and/or criminal breach of trust, be liable to Employer for all moneys, advantages or profits resulting or which in the usual course would have resulted to his by reason of such breach.

Right of employer to terminate contract in the event of death of Contractor or individual

40. Without prejudice to any of the rights or remedies under this Contract, if the Contractor, being an individual, dies, the Employer shall have the option of terminating the contract without incurring any liability for such termination.

41. Non-disclosure Clause:-

The Contractor shall not disclose directly or indirectly any information, materials and details of the Bank's infrastructure/systems/equipment etc., which may come to the possession or knowledge of the Contractor during the course of discharging its contractual obligations in connection with this agreement, to any third party and shall at all times hold the same in strictest confidence. The Contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The Contractor shall not publish, permit to be published, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer. The Contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the Contractor and the Employer shall be entitled to claim damages and pursue legal remedies.

42. Sexual Harassment of women at work place

- a) The contractor shall be solely responsible for full compliance with the provisions of "the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013". In case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the Internal Complaints Committee constituted by the contractor/Agency and the contractor.
- b) Any complaint of sexual harassment from any aggrieved employee of the Service Provider against any employee of the Bank or any employee of any other firm working in the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the Bank.
- c) The contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employees of the contractor, for instance any monetary relief to Bank's employee or other firm's employee, if sexual violence by the employee of the contractor is proved.

- d) The contractor shall be responsible for educating its employees about prevention of sexual harassment at work place and related issues.
- e) The contractor shall provide a complete and updated list of its employees who are deployed within the Bank's premises.

Section VI**SPECIAL CONDITIONS**

1. The workmen will not be allowed to stay within the premises.
2. The electric power required for the work can also be similarly drawn from the supply available at site free of cost.
3. Permission, if any, required from the local bodies shall be obtained by the Contractor.
4. The intending tenderer can obtain any clarifications regarding the Tender drawings, specifications etc. from the department on any Bank's working day
5. The tenderer may please note that, the work has to be carried out during the daytime or as per the Bank's instructions. Therefore, the entire work involved shall be carried out with least disturbance to the staffs/occupants of the office/ colony and also day-to-day cleaning has to be done by the contractor. The wall/slab/column should be cut by chase cutter only
6. The entire materials for the work shall be brought to the working area through the staircase and no freight lift will be available for lifting materials.
7. The debris/dust or any wastage generated out of the above work shall be cleaned as frequently as required and as instructed by the Bank's Engineer.
8. All dismantling work and work generating noise shall be done during the day time and holidays and day time work shall have to be done on restricted hours. Contractor has to made availability of supply during the Evening & night time. Contractor shall take into account the above facts while quoting the rates.
9. The tenderer shall remove all the debris collected at site (from the Bank's premises) on everyday basis. The staircase and passages used by the laborers shall be cleaned properly, as per the entire satisfaction of Bank's Engineers.
10. The contractor shall depute qualified supervisor during execution of the work. No work shall be carried out at site in unsupervised manner.
11. The tenderer shall use only approved brands of materials.

Section VII

APPENDIX HEREIN REFERRED

1.	Defects liability Period	12 months from the date of issue of virtual completion certificate.
2.	Period of final measurement	1 month from the date of final commissioning.
3.	Date of commencement	10 th day from the date of award letter.
4.	Period of completion	3 months from the 10 th day of work order
5.	Liquidated Damages for delay in completing the work.	0.25% of the contract value per week of delay subject to a maximum of 10% of the contract amount.
6.	Value of work for Interim Certificate for running bill	As per the payment terms and conditions
7.	EMD	2% of the contract amount and shall be released on submission of BG of 10 per cent of the contract value.
8.	RMD	Retention Money @ 5% will to be recovered from each on-account bill till the total recovery amounts to 5% of the contract value as stipulated in the tender document. It will be released after the Defect Liability Period of one year.
9.	Period of honoring interim certificate	1 month
10	Interest for delayed payment	3 percent per annum

Signature of Contractor

Section VIII

Technical Specifications (For 320 KVA DG set)

Scope of work: Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram.

1.0 DIESEL ENGINE

- a) The diesel engines (**CPCB IV+**) shall be of the direct injection, four stroke cycles, Radiator cooled, turbo charged with charged air cooled, operating at a nominal speed of 1500 RPM and capable of developing at 100% load with fan power included and coupled to 320 KVA Alternator.
- b) The engine shall meet the current emission norms.
- c) The engine fitments shall include but not be limited to the following: -
 - 1.0 Flexible coupling/Close Coupled alternator and flywheel.
 - 1.1 Dry type air filter with clogged condition indicator (The filter shall be easily approachable for maintenance).
 - 1.2 Radiator inbuilt in the common skid base frame and Engine suitable to run the DG set at 10% overload at an ambient of 50 Degrees centigrade, keeping the acoustic doors in closed condition
 - 1.3 Engine driven fuel pump.
 - 1.4 Engine driven coolant pump.
 - 1.5 Engine driven lubricant Lube oil pump, oil cooler and filter. Also, first fill of oil and coolant need to be supplied.
 - 1.6 Silencers with domestic Grade.
 - 1.7 12/24 V D.C. Starter and battery charging alternator.

Microprocessor based monitoring and control system capable of operator interface to the DG set manually and remote start/stop control and shut down fault indication shall be of electronic LCD type displaying Engine and Alternator parameters. The location of the tank depends on standards manufacturing design.

- d) The engine speed shall be regulated through **Electronic Governing** system which shall also provide the over speed protection. The AVR should have adjustable V/Hz feature to adjust and obtain best possible block loading capacity
- e) The generator sets shall have the following protection features in built in Controller

Engine Safeties Features and Protection

Low Oil Pressure (Warning and shutdown)
 High Coolant Temperature (Warning and shutdown)
 Low fuel Level (Warning and Shut Down)

Fail to Crank Shut Down
 Over speed Shut Down
 Under speed Shut Down
 Emergency Stop Shut Down
 Fault Log for at least Last 5 Faults
 Weak Battery - Warning

Electrical Safeties Features and Protection

High AC Voltage Protection
 Low AC Voltage Protection
 Under Frequency Protection
 Loss of Excitation
 Weak Battery Monitoring Feature

Engine Safety Features

Battery Voltage Monitoring
 Coolant Temperature Monitoring
 Low Lube Oil Pressure Safety
 High Engine Speed Safety
 Engine Run Hours

Fault Codes Display

- a) Programmable Isochronous or drop governing
- b) ability High Coolant Temperature (Trip/Alarm)
- c) Over Speed (Trip / Alarm)
- d) Low Lubricant Oil Pressure (Trip)
- e) Low Coolant Level (Trip / Alarm)
- f) Battery Charging failure

Starter Motor Protection

Automatic Speed Dependent Starter disengagement on startup.

ENGINE ACCESSORIES.

The following accessories shall be supplied with the DG set.

- a) Common base frame for the Engine, alternator & radiator.
- b) Anti-vibration mounts of reputed make of requisite quantity to be provided between Engine and base frame and Alternator & Base frame.
- c) Protective guards for all rotating parts is compulsory.
- d) Local MCCB for emergency isolation.

BATTERY

- a) Battery shall be as per manufacturers standard suitable for three successive starting attempts each of 10 seconds duration with a gap of 5 seconds between successive starts. The AH of batteries shall be as recommended by manufacturer.

2.0 ALTERNATOR

DG set should be able to run at 10% overload even at ambient temperature of 50 degree Centigrade. The model and capacity of alternator are to be selected to meet this requirement. A certificate/communication/confirmation from the OEM of DG Set needs to be submitted with tender Part-I. Similarly, the size of bus-bar in AMF panel is to be selected/designed to cater the actual size of the alternator.

The Alternator should be horizontal foot mounted, single/double bearing, self-excited, self – regulated, brushless, screen protected drip proof, continuous duty alternator conforming to IS 4722/ IEC 34 / IS 4889 as amended up to date with Class "H" insulation IP-23 enclosure incorporating the following.

- a) Continuous damper winding.
- b) AVR to be part of the alternator.
- c) Terminal box with both ends of each phase winding brought to terminals.
- d) Single bearing/Double Bearing
- e) Rated Power factor : 0.8(lag)
- f) Rated voltage : 415 Volts
- g) Rated frequency : 50Hz
- h) No. of phases : 3
- i) Enclosure : SPDP
- k) Ventilation : self-ventilated air cooled
- l) Ambient temperature: 40 °c maximum
- m) Insulation class: H
- n) Temperature rise: within class H limits rated loads
- o) Voltage regulation : +/- 1%
- p) Voltage variation : +/- 5%
- q) Overload duration/capacity :10% for one hour in every 12 hours continuous use
- r) Frequency variation: as defined by Engine Governor (+/-1%)
- s) Type of AVR : Electronic
- t) Type of bearings and lubrication
Arrangement : Anti friction bearings with grease lubrication

Following control system should be available for the Generator set

1. Local or remote start and stop
2. Control Switch: OFF/RUN/AUTO MODE
3. LED INDICATING LAMPS for indicating the following status

- a. Not in Auto Mode
 - b. Common wiring
 - c. Shutdown
 - d. Remote start command
4. Panel Lamp switch
 5. Fault Reset Switch
 6. Emergency stop Switch

Following Metering & Protections are required for the DG set. Digital Meters Indication for the following:

Engine Parameters:

1. Lubricant Oil Pressure
2. Coolant temperature
3. Engine Speed
4. Engine Hours Run
5. Battery Voltage

Alternator Parameters: -

1. Phase voltage LL
2. Parallel bus voltage
3. Phase current LL
4. Frequency
5. Total and per phase KVA
6. Alternator exciter duty and governor duty

Protections:

Engine:

1. Low Lubricant oil pressure (Warning(W)/Shutdown(SD))
2. High coolant temperature (W/SD)
3. Low coolant temperature - W
4. Low coolant level - W/SD
5. Oil pressure sensor - W
6. Engine temperature sensor - W
7. Fail to crank - SD
8. Over crank - SD
9. Over speed - SD
10. Low and high battery voltage - W
11. Weak battery - W
12. Dead Battery - SD
13. Magnetic pick up failure - SD

Alternator:

1. Over voltage - SD
2. Under voltage - SD
3. Under frequency - SD
4. Over frequency - W/SD
5. Loss of excitation-SD

Local Isolation on Engine standard control Panel: 630 Amp MCCB, 50 KA rating shall be provided.

Specification of Acoustic Enclosure

1. Construction of Acoustic Enclosure

Acoustic enclosure shall be powder coated and fabricated out of minimum 1.6 mm thickness CRCA sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire-Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

2. Surface Treatment-Painting

The enclosure surface is pretreated with 7 tank processes and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven.

3. Base Frame

The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.

4. Silencer

Domestic type Silencer is provided to suppress exhaust noise from the engine to meet the stringent noise-limit set by MoEF and CPCB IV+ norms. The silencer and attached exhaust pipe should be properly covered with glass wool insulation and aluminium sheet.

5. Emergency Push Stop Button:

The canopy has the provision of emergency push button, external to the canopy.

6. Performance Parameters

DG with canopy are manufactured as per (ISO 3744 OR 8528 PT 10) to meet latest CPCB IV+ norms of average 75 DBA under green field conditions @ 1-meter distance from all four sides. The average stabilized hot air temperature rise with in the canopy is maintained within 10-degree C over and above ambient temperature.

Warranty

The DG set shall be guaranteed against faulty workmanship/poor material quality and failures due to the same, for minimum of **12 months** from the date of commissioning. No compromise will be entertained on this clause. **The warranty should be from manufacturer of the engine and alternator** and not by assemblers and any other agency. Certificate / letter for the same from engine manufacturer need to be produced along with tender submission documents.

To ensure timely service backup in case of emergency, it is very essential that Service set up is available in Thiruvananthapuram to ensure timely services. The tenderer should submit the toll-free number details in India for the engine manufacturer to ensure speedy service support and escalation matrix for service and repair.

COMPLIANCE STANDARDS

BS 4999/5000 pt99, VDE 0530, NEMA MG1-22, IEC 34, CSA 22.2, AS 1359 , BSS 5514 , ISO 3046 AND ISO 85

BASE PLATE -The diesel engine and the alternator shall be mounted on a common base plate made from suitable channel sections with welded joints. Suitable anti-vibration mountings duly approved by Bank's Engineer shall be employed to prevent transmission of vibration to the structure to the maximum extent possible.

- The fuel tank capacity shall be proportionate to the DG set capacity as per the standards and shall be installed as part of the set with required pipe connections etc.
- The fuel level gauge to be provided with a proper scale with a minimum division of 5 litres.
- Drain plugs shall be provided for draining mobile oil.
- Batteries with FR casing shall be provided in a tray. Certificate from OEM for FR casing in batteries needs to be submitted during factory inspection of DG Set.

Exhaust piping: All M.S. pipes for exhaust lines shall be confirming to relevant IS. The runs forming part of factory assembly on the engine flexible connections up to exhaust silencer shall be the exhaust piping item. The work includes necessary cladding of exhaust pipe work using 50 mm thick loosely bound resin (LBR)mattress/mineral wool/Rockwool, density not less than 120 Kg/m³ and aluminum cladding (0.6 mm thick) for complete portion. The exhaust pipe system includes necessary supports, foundation etc. to avoid any load or stress on turbo charger /exhaust piping. Height of exhaust pipe should be as recommended by the manufacturer of the engine, as per all relevant Central / State Govt norms and as per local pollution control board (PCB) norms.

The components used in the fabrication of the panel shall be of high quality/reliability and shall be of reputed make, the spares of which are readily available in the local market.

Concrete Pedestal:

Foundation bed for 320 KVA DG set with M20 concrete and necessary steel reinforcement of required strength shall be provided by the contractor. The design for the pedestal shall be

approved by Manager (Tech- Civil). Necessary holes shall be provided on the pedestal for entry of cables/ Earth strip etc.

One set of operating manuals and two sets of control circuit drawing of panel in laminated form out of which one will be made available in the generator room near the Standard Control panel and other for the record purpose shall be provided.

ERECTION -The scope of erection shall include for the supply and erection of the following:

- The engine and the alternator placed on a common base plate shall be mounted on sufficient numbers of suitable capacity cushy foot or equivalent make anti-vibration mounts inside the acoustic enclosures.
- The batteries shall be mounted on a suitable size angle iron stand, duly painted, fixed to the floor and provided with suitable rubber matting.
- Four numbers of plate earth stations conforming to IS-3043/1966 with copper earth plates, GI pipe, funnel; Lockable top cover with MS Chequered plate etc. (two for neutral earthing, two for equipment earthing) shall be provided.
-
- A heavy-duty domestic grade type silencer with necessary length of exhaust piping, complete with insulation shall be provided from the engine exhaust complete with long bends, bird screens, etc. along with supports. After all the equipment are erected, they shall be given two coats of approved quality paint as may be required.
- Required sizes mentioned in Unpriced bill of quantity/Part – II and approved make power cabling confirming to the IS/BIS standards shall be done from DG set Alternator terminals to control panel and termination of the same. Also, termination of the existing power source and outgoing to Sub power panel shall be done by the Contractor.
- **Tenderer shall be required to install the D.G set at outdoor space (new foundation/pedestal shall be provided as per BOQ)**

Necessary electrical and physical layout drawings shall be prepared in consultation with the Bank's Engineer. The drawings, if necessary, shall be submitted to the local electrical inspectorate or any other statutory authority for their approval. If required, the contractor shall arrange for inspection of the installations by the competent authorities and the entire installation shall be got certified. Defects, if any, pointed out by the above authorities shall be rectified free of cost. However, any item of work beyond the scope of this work is to be carried out to meet their requirements, the same shall be carried out at mutually agreed extra rates. The fees to the statutory Authorities only, if any, payable in this connection will be paid by the Bank.

AMF POWER CONTROL PANEL

The Control panel shall be designed for automatic on mains failure operation of the generator set. The panel shall be floor standing cubicle pattern, totally enclosed, dust, damp

and vermin proof, fabricated out of 16 SWG. M.S. sheet treated with anti-corrosion and painted with two coats of approved quality shade synthetic enamel paint. The panel shall be complete with inter connections, insulators, 2 Nos. earthing lugs and shall incorporate the following: -

- CT operated Digital Multifunction meter with remote monitoring facility.
- Mode Selector Switch OFF/AUTO/MANUAL
- Set of current transformers of suitable ratio
- Built-in boost cum trickle Battery Charger consisting of –
 - a) Transformer/Rectifier
 - b) DC Ammeter
 - c) DC Voltmeter
 - d) Charging rate selector switch
 - e) Hooter

Contactors and MCCBs

- 630A 50kA MCCB each for Main supply and DG set power supply (microprocessor-based release or equivalent) with short circuit and overload protection.
- 630A 50kA Contactor based/ATS based smooth Changeover facility and necessary interlocks
- Engine shutdown and Alternator protection equipment
 - a. Low lube oil pressure shutdown
 - b. High Coolant temperature shutdown
 - c. Engine overspeed shutdown
- Alternator Protection
 1. Overload
 2. Short Circuit
 3. Earth fault
 4. Overvoltage
- Main supply voltage Monitor with under/over voltage adjustable setting
- Set of control relays
- Set of indicating lamp load on set, load on mains, start failure, high temperature trip, low oil pressure, high temperature warning, battery low.
- Push buttons for start, stop, reset, silence alarm, DG / Mains supply contactors / ATS manual override.
- Microprocessor based engine control unit with LAN connectivity and necessary software for remote monitoring and operation. (either in AMF panel or in engine)
- Toggle switch for hooter ON/OFF
- Tinned Copper busbar to be designed for suitable size to withstand minimum 800A load i.e. at 1.2 Amps per sq. mm.

The panel shall be so designed that in the case of main supply failure, the diesel engine and the generator shall be started and on checking the generator voltage and frequency

make available the generator power to the essential loads. On restoration of main supply, the generator supply shall not be cut off immediately but after time lag of 45-60 seconds i.e. after stabilization of restored main supply and thereafter the engine shall be shut down automatically. If the engine fails to start after three attempts or fail to pick up rated speed, the engine starter shall trip automatically and there shall be an audio alarm to sound an unhealthy condition of the generator set. The panel shall have suitable circuitry incorporated therein for all the functions specified above complete with all required components viz. Control coils, relays, contact blocks, internal wiring etc.

The components used in the fabrication of the panel shall be of high quality / reliability and shall be of reputed make, the spares of which are readily available in the local market. The design, drawings and the complete panel shall be got approved from the local electrical inspectorate. One set of operating manuals and two sets of control circuit drawing of panel in laminated form out of which one will be made available in the generator room near the AMF Panel and other for the record purpose shall be provided.

TESTING & COMMISSIONING -

Factory Testing

After completion of manufacturing of DG set, the same shall be subjected to inspection and testing at the manufacturer's factory in the presence of Bank's Engineer as per the specification. The DG shall also be inspected and tested for a continuous run of total 2 hrs. in the following manner:

- **First one Hour at 100% load – Gradual loading with all doors of acoustic enclosure closed**
- **2nd hour 110% load with all doors of acoustic enclosure closed**

The fuel consumption shall be measured at 100% load.

The DG set shall remain liable for rejection, if the actual fuel consumption calculated exceed 5% of the committed value. All other parameters shall be tested as per relevant IS. **The contractor shall provide all the consumables like fuel, lubricant (including one initial charge) necessary for this testing. On completion of the test, necessary test- report shall be furnished.**

The following tests are to be carried out for the AMF panel and necessary certificates be submitted by the contractor before dispatch of the panel to the site.

Insulation resistance test with 1000 V megger with all switchgear in closed position.

- 1) Phase-to-Phase 2.5 MEG. OHMS (Minimum)
- 2) Phase-to-Neutral 1.5 MEG. OHMS (Minimum)

Meters and relay calibrated and tested through secondary injection tests.

Site Testing – at site, after successful installation of DG set, the vendor must run the DG set for **2 hours at full load** i.e. existing load connected to the set, during which proper functioning with all required parameters shall be tested. On completion of test, necessary test report shall be furnished.

Technical Particulars

1.	Make and model of DG set	
2	Engine	
	Make	
	Model Number	
	Type	
	Type of cooling system	
	Type of silencer	
	Turbo Charger to be provided	
	Fuel tank capacity	
	Shaft HP at 1500 RPM	
	Type of Governor	
	Fuel consumption at full load/hour	
3.	Alternator	
	Make	
	Model Number	
	Frame Size	
	Rated Voltage	
	Capacity in KVA	
	Excitation	
	% Regulation	
	Type of Enclosures	
	Class of insulation	
	Type of cooling	
4	Batteries	
	Make	
	Voltage	
	Capacity in Amp. Hours	
5	Coupling	
	Type	
	Whether guard provided or not	
	Whether base plate is included or not	
6.	Exhaust piping	
	<ul style="list-style-type: none"> - dia of exhaust pipe - thickness of exhaust pipe - thickness and type of insulation 	
7	List of tools normally supplied with the engine & alternator, free of cost.	List to be enclosed separately
8	List of spares normally supplied along with the engine & alternator, free of cost.	List to be enclosed separately

Technical Particulars of Acoustic Enclosure

Sr.no	Description	Bank's Specs.	Tenderers offer
1.	Outer dimension in mm		Length.....in mm Width.....in mm Height.....in mm
	Wall thickness in mm		
2	MS Sheet for main enclosure	Minimum 1.2 to 2mm thick	
3	Details of frame work		
4	Details of acoustic material		
(a)	Type of wool	Mineral Rock wool of equivalent material	
(b)	Type of external covering to the acoustic material	MS, GI perforated sheets	
(c)	Gauge of sheet	Minimum 22 gauge	
5	Details of doors		
(a)	Number of doors	04 (minimum)	
(b)	Size of doors	As required	
(c)	Acoustic insulation for doors	Mineral Rock wool or equivalent material	
(d)	Locking system	Pressure locks from outside and bolts from inside	
6	Type of ventilation	Suitable to keep inside temperature approximately 5-6 deg. above ambient with DG set operating at full load and all doors closed.	
7	Whether the sound level with acoustic enclosure is within the acceptable limits prescribed by Pollution Control or Local Authority.	Yes/No. please attached the certificate of type approval and certificate of conformity of production.	

Section IX**List of approved Makes**

Sr. No.	Equipment	Make
1.	Engine	Cummins/Greaves /Kirloskar oil engines / Caterpillar/ Leyland/ Mahindra/ Perkins
2.	Alternator	Kirloskar Electric/Crompton Greaves / Stamford / Caterpillar/ NGEF/Leroy Somer
3.	Cables	Finolex/ Gloster /Polycab/Universal/ NICCO/ CCI
4.	Cable gland	Comet/Braco/Dowell
5.	Cable lugs	Siemens/Dowell/ Braco
6.	MCCB/ ATS/Contactors / Relays	LK/ SIEMENS/ ABB / GE / SOCOMEC or Equivalent
7.	Multifunction meter	LK/Rishab/GE or Equivalent
8.	Voltmeter/Ammeter	AE/Meco/LK or Equivalent
9.	CTs	Kappa/Pragati/ECS or Equivalent
10.	Battery	Exide/Panasonic/ Amararaja or Equivalent
11.	GI pipe	Tata / Jindal

Seal of company & Signature

Section X**Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure and AMF panel in Bank's Main Office Building at Thiruvananthapuram****Bill of Quantity**

Sr. No.	Description	Qty	Unit rate (Rs.)	Amount (Rs.)
1	<p>Supply, installation in position, testing, commissioning and handing over of a silent diesel generator set of capacity of 320 KVA with acoustic enclosure as per detailed specifications and CPCB IV+ norms, 3 phase, 415 volts, 50Hz complete with diesel engine, alternator ,water cooled radiator, fuel storage tank commensurate with capacity of the DG set, self-starting device, domestic grade silencer with insulation ,batteries with connecting copper wires, battery charger, engine panel, base frame, anti-vibration mounts and all connected accessories complete as described in detailed technical specifications. The amount quoted shall be inclusive of following:</p> <p>(a) Basic rate (b) Any other duty, levies etc. (c) Cost of transport and storage cum erection (d) Insurance for transit and storage cum erection (e) Charges for erection, testing and commissioning of the DG set, including obtaining approval from statutory authorities, if an (f) Cost of consumables like diesel, lubricant oil etc. for testing and commissioning of the DG set (approx. 2 hours on full load at factory testing and 2 hours at site).</p>	1set		

2	<p>Micro-Processor based AMF Control Panel: - The Micro-Processor based control panel shall be designed for automatic mains failure and changeover operation of the generator set. The control panel shall be made of sheet steel mounted on a channel frame, floor mounting, free standing, dust proof, cubical type front operated etc. It shall be provided with multi-functional meter (3 line), 2 no's 630A Amps 50kA MCCB 4 pole, 1 Nos 630 Amps 4 pole ATS/ 02 nos. of 630A 50kA contactor based with all protective devices, current transformers with suitable ratio for metering and protection, LED type indicating lamps, control MCBs, with necessary bus extension for termination DG Cable etc.</p> <p>The panel shall be equipped with tinned copper bus bars of suitable size, duly provided with heat shrink PVC sleeves mounted on suitable support insulators. Separate bus bars for incoming and outgoing with cable entry at bottom of panel with removable gland plate separately for incoming and outgoing cables, panel lifting hooks, base frame etc. Battery charger comprising of inbuilt SMPS</p> <p>a) DC Ammeter b) DC Voltmeter</p>	1set		
3	Supply and laying of 3.5C x 240 sq.mm XLPE insulated aluminium armoured cable with 2 runs of 8 SWG copper wire running along the cable in HDPE pipe of suitable size with required earth excavation from generator to AMF panel, refilling the same and making the surface as original etc.	80 mts		
4	Termination of above cable with suitable cable glands with lugs and with required accessories etc.	4 sets		

5	Supply, laying and termination of control cables from DG set to AMF panel in suitable size HDPE pipe with required earth excavation etc.	40 mts		
6	Supply, installation, testing and commissioning of 600mmx 600mm x 3mm copper plate electrode complete with 25 x 5 mm copper strip to be run along with GI pipe electrode of 50mm dia 3M long, 3mm thick as per IS 3043 complete with all accessories like watering funnel, clamps etc. The same to be installed in a pit of 3M depth and to be filled with alternate layers of coal (Min 75Kgs) and salt (min 50Kgs.) A brick work masonry shall be constructed of size 450 x 450 x 300mm and cement plastering at both inside and outside walls. A heavy duty cast iron cover plate with framework (Minimum 17 Kg) shall be placed over the chamber. Earth pit to be tested with earth resistance tester and the value should be written at the top of the chamber. (Two sets for body earthing and two sets for Neutral earthing)	04 sets		
7	Supply, laying and connecting of 25 x 3 mm copper strip for equipment earthing at 0.5M below ground as strip earth electrode including connection / terminating with SS fasteners as required. (Jointing shall be done by overlapping, brazing and riveting or 2 sets of SS bolt, nut and spring washer placed at 50mm etc.)	30 mts		
8	Supply, laying and connecting of 25 x 5 mm copper strip for neutral earthing at 0.5M below ground as strip earth electrode including connection / terminating with SS fasteners as required. (Jointing shall be done by overlapping, brazing and riveting or 2 sets of SS bolt, nut and spring washer placed at 50mm etc.)	30 mts		

9	Providing foundation bed for 320 KVA DG set with M20 concrete and necessary steel reinforcement of required strength, and making holes for cable entry etc.	01 job		
10	Removing and re-termination of existing cables (Mains incoming and Outgoing cables in AMF panel). The cost is inclusive of cable glands, lugs and with required accessories etc, if any.	04 sets		
11	Exhaust piping: Supply and installation of insulated MS exhaust piping of suitable dia., MS, C-class, ISI mark pipe for DG set, as recommended by the manufacturer of the engine and as per all relevant Central / State Govt norms, with 50mm thick mineral wool lining for thermal insulation and aluminium cladding, complete with required materials such as supports structure and all allied civil works as described in detailed technical specifications in tender and as directed by the Bank's Engineer. The support structures shall be duly painted to prevent corrosion. Height of exhaust pipe should be as per the local pollution control board (PCB) norms.	15 Mts		
A	SUB TOTAL (RS.)			
B	GST @ 18%			
C	GRAND TOTAL (Rs.) (C=A+B)			
D	Less buyback for dismantling and taking away existing old 320KVA DG set without acoustic enclosure and its control panel, AMF panel, exhaust pipe etc inclusive of GST, as is where is basis.	1set		
E	Cost per annum for Annual maintenance contract without spares (1 visit per month) for the newly installed DG set Engine and Alternator, standard engine control panel, acoustic enclosure, batteries, battery charger unit, AMF panel etc., after	Per annum		

	guarantee period (DLP), as per terms and conditions specified in Part-I, inclusive of GST.			
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Signature & Seal of the firm

Annexure I

List of Clients

Details of similar qualifying works executed before 5 years (Date of work order should be on or before.....)

Sr. No.	Name and address of the firm	No. of units supplied	Value of the work	Whether works completed in time or not (give date of start & date of completion)	Completion period as per work order	Fax /phone number & contact person of the firm

Details of similar qualifying works executed during the last 5 years (completed on or after.....)

Sr. No.	Name of work	Name and address of the firm	Rating and No. of DG set units supplied	Value of the work	Whether works completed in time or not (give date of start & date of completion)	Completion period as per work order	Fax /email /phone number & contact person of the firm

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(Attach sheet if required)

Date

Signature of Tenderer:

Annexure - II**CLIENT's CERTIFICATE REG. PERFORMANCE OF CONTRACTOR**

Name & address of the Client

Details of Works executed by M/s... (Name of the Tenderer)

- 1 Name of work with brief particulars
- 2 Agreement No. and date
- 3 Agreement amount
- 4 Date of commencement of work
- 5 Stipulated date of completion
- 6 Actual date of completion
- 7 Details of compensation levied for delay (indicate amount) if any
- 8 Gross amount of the work completed and paid
- 9 Name and address of the authority under whom works executed
- 10 Whether the contractor employed qualified Engineer/Overseer during execution of work?
- 11

i) Quality of work (indicate grading)	Outstanding/Very Good/ Good/Satisfactory/poor
ii) Amt. of work paid on reduced rates, if any.	
- 12

i) Did the contractor go for arbitration?	
ii) If yes, total amount of claim	
iii) Total amount awarded	
- 13 Comments on the capabilities of the contractor.

a) Technical proficiency	Outstanding/Very Good/ Good/Satisfactory/poor
b) Financial soundness	Outstanding/Very Good/ Good/Satisfactory/poor
c) Mobilization of adequate T&P	Outstanding/Very Good/ Good/Satisfactory/poor
d) Mobilization of manpower	Outstanding/Very Good/ Good/Satisfactory/poor
e) General behaviour	Outstanding/Very Good/ Good/Satisfactory/poor

Note : **All columns should be filled in properly countersigned**"

*

Reporting Officer* with Office seal

*Officer of the rank of executive engineer/Superintending Engineer or equivalent

Annexure III

Proforma for Bank Guarantee In Lieu Of Earnest Money Deposit

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank).

This deed of guarantee made this ____ day of ____ two thousand ____ between ____ (Name of Banker) having its registered office at ____ (place) and one of its local offices at ____ (hereinafter referred to as the Surety), and Reserve Bank of India, a corporation constituted by the Reserve Bank of India Act, 1934, having its Central Office at Central Office Building, Shahid Bhagat Singh Road, Mumbai-400 001 INDIA (hereinafter referred to as the Bank).

WHEREAS _____ Tenderer's name hereinafter referred to as 'Tenderer') a Company registered under _____ and having its registered office at _____ is bound to deposit with the Bank by way of earnest money INR _____ (INR _ only) in connection with its Tender for **Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram** ' and the specifications and terms and conditions enclosed therein.

WHEREAS the tenderer as per clause No. _____ Section IV of Instructions to tenderers and special conditions has agreed to furnish a Bank Guarantee valid up to _____ instead of deposit of earnest money in cash.

NOW THIS WITNESSETH:

1 That the Surety in consideration of the above Tender made by the Tenderer to the Bank hereby undertakes to guarantee payment on demand without demur to the Bank the said amount of INR _____ (INR _____ only) within one week from the date of receipt of the demand from the Bank on presentation of this deed of guarantee, which the Tenderer is bound to deposit with the Bank by way of earnest money in connection with his Tender.

2 This guarantee shall not be affected by any infirmity or irregularity on the part of the Tenderer or by the dissolution or any change in the constitution of the Bank, Tenderer or the Surety.

3 The Bank shall be eligible to make any claim under this guarantee if the Tenderer after submitting his Tender, rescinds from his offer or modifies the terms and conditions thereof in a manner not acceptable to the Bank or expresses his unwillingness to accept the order after the Bank has decided to place order with the Tenderer for the **Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram** '.

The Banks' decision in this regard shall be final and binding.

4 The Surety shall not and cannot revoke this guarantee during its currency except with previous consent of the Bank in writing.

5 Notwithstanding anything contained in the foregoing, the Surety's liability under the guarantee is restricted to INR _____ (INR _____ only).

6 This guarantee shall remain in force and effective up to _____ and shall expire and become ineffective on intimation thereof being given to the Surety by the Bank in which event this guarantee shall stand discharged.

7 The Surety will make the payment pursuant to the demand notice issued by the Bank, notwithstanding any dispute that may exist or arise between the Tenderer and the Bank or any other person.

8 Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.

9 Notwithstanding anything contained hereinabove, unless a demand or claim under this guarantee is made on the Surety in writing on or before _____, the Surety shall be discharged from all liabilities under guarantee thereafter.

10 The Surety has the power to issue this guarantee under its Memorandum and Articles of Association and the person who is hereby executing this deed has the necessary powers to do so under the Power of Attorney granted to him by the Surety.

SIGNED AND DELIVERED For and on behalf of or and on behalf of above named Bank. (Banker's Name and Seal)

Bank Manager
(Banker's seal)

Annexure IV**Proforma of Bank Guarantee for Security Deposit**

(To be submitted on Non-judicial stamp paper of appropriate value purchased in the name of the issuing bank)

No. _____ Date _____

To:

The Regional Director
Reserve Bank of India
Thiruvananthapuram

Dear Sir

In consideration of your agreeing to accept the security deposit of INR _____ (INR _____ only) furnish able to you by Messrs _____ (hereinafter referred to as "the Contractor") in terms of their contract with you for **Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram** ,

as per their Tender dated _____ and your Special Conditions of Contract and other tender documents relating thereto subject to the conditions and alterations mutually agreed upon the set forth or referred to in your Contract dated _____ in the form of guarantee from us in the manner hereinafter contained, we _____ (Name of the Bank) do hereby covenant and agree with you as follows :

1. We undertake to indemnify you and keep you indemnified from time to time to the extent of INR _____ INR(_____ only) against any loss or damage caused to or suffered by or that may be caused to or suffered by you by reason of any breach or breaches on the part of the Contractor of any of the terms and conditions contained in the said Contract and in the event of the Contractor making any default or default in carrying out any of the work under the said Contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand pay to you such sum or sums not exceeding in total the said sum of INR _____ (INR_____ only) as may be claimed by you as your losses and/or damages, costs, charges or expenses by reason of such default on the part of the Contractor.
2. Notwithstanding anything to the contrary, your decision as to whether the Contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims under this Guarantee but will pay the same forthwith on your demand without any protest or demur.
3. This guarantee shall continue and hold good until it is released by you on the application by the Contractor after expiry of the relative guarantee period of the said Contract and after the

contractor had discharged all his obligations under the said Contract and produced a certificate of due completion of the work under the said contract and submitted a “No Demand Certificate”, provided always that this guarantee shall in no event remain in force after the day of _____ without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.

4. Should it be necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this Guarantee on your request till such time as may be required by you. Your decision in this respect shall be final and binding on us.
5. You will have the fullest liberty without effecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the Contractor or to postpone for any time or from time to time any of your rights or powers against the Contractor and either to enforce or forbear to enforce any of the terms and conditions of the said Contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the Contractor or any other forbearance, act or omission on your part or any indulgence by you to the Contractor or by any variation or modification of the said contract or any other act, matter or things whatsoever, which under the law relating to sureties would but for the provisions hereof have the effect of so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of INR _____

(INR _____ only) as aforesaid.
6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the Contractor or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be, of the Contractor.
7. In order to give full effect to the guarantee herein contained you shall be entitled to act as if we were your principal debtors in respect of all your claims against the Contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety-ship and other rights, if any, which are in any way inconsistent with any of the provisions of this guarantee.
8. Subject to the maximum limit of our liability as aforesaid, this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.
9. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax or registered post to our local address as aforesaid and if sent by post, it shall be deemed to have been given when the same has been posted.
10. This guarantee and the powers and provisions herein contained are in addition to and not by way of limitation of or substitution for any other guarantee or guarantees heretofore given to you by us (whether jointly with others or alone) and now existing un cancelled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.
11. This guarantee shall not be affected by any change in the constitution of the contractor or us

- nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure to the benefit of and be available to and enforceable by the absorbing or amalgamated company or concern.
12. Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the Tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.
 13. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.
 14. We further agree and undertake to pay you without demur the amount demanded by you in writing notwithstanding any difference or dispute or controversy that may exist or arise between you and contractor or any other person.
 15. Notwithstanding anything contained herein above our liability under this guarantee is restricted to INR _____ (INR _____ only). Unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry, including extensions if any, of this guarantee all your rights under the guarantee shall be forfeited and we shall be deemed to have been released and discharged from all liabilities there under, irrespective of whether or not the original guarantee is returned to us.
 16. We have power to issue this guarantee in your favour under the Memorandum and Articles of Association of our Bank and the undersigned has full power to execute this Guarantee under the Power of Attorney granted to him by the Bank.

SIGNED AND DELIVERED

(For & on behalf of the above named Bank)

For & on behalf of

(Banker's Name & Seal)

BRANCH MANAGER

(Banker's Seal)

Address _____

Annexure V

Articles of Agreement

Articles of Agreement

ARTICLES of Agreement made on the ----- day of ----- between the Reserve Bank of India, having its Central Office at Mumbai (hereinafter called "The Employer") of the one part and ----- (hereinafter called "The Contractor") of the other part.

Whereas the employer is desirous of doing the work of **Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram'** and whereas the said drawings and the specifications and the Schedule of Quantities have been signed by or on behalf of the parties hereto.

And Whereas the Contractor has agreed to execute upon and subject to the conditions set forth in the Conditions and in the Schedule of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as "the said Conditions") the works shown upon the said drawings and/or described in the said Specifications and included in the said Schedule of Quantities at the respective rates therein set forth amounting to the payable there under (hereinafter referred to as "the said Contract Amount").

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the said Contract Amount to be paid at the time and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions execute and complete the work described in the said Specifications and the Schedule of quantities.
2. The Employer shall pay the Contractor the said Contract amount or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
3. The said conditions and Appendix thereto and the correspondence attached hereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by and submit themselves to the said Conditions and the correspondence and perform the agreement on their part respectively in the said Conditions and the correspondence contained.
4. The plans, agreement and documents mentioned herein shall form the basis of this contract.
5. This Contract is an item rate contract to be paid for according to the completion of work as contained in Schedule of Quantities or as provided in the said conditions and all as per specifications and working drawings.
6. The contractor shall afford every reasonable facility for carrying out of all works of other Contractors appointed by the Employer and shall make good any damages done to walls, floors etc. after the completion of such works.
7. Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work/job from the 10th day of issue of formal work order as provided for in the said conditions and to complete the entire work specified within **3 months** subject to nevertheless to the provisions for extension of time.

8. **Non Comprehensive Annual Maintenance Contract**: The contractor shall also provide maintenance services to the system provided by them under this contract during one year of defect liability period from the handing over of the system to Bank and further nine years under non comprehensive Contract at the rate quoted them in their tender as per terms and conditions accepted under this contract. The rate for AMC shall be renewed as per the following formula.

$A_C = A_P[(15+85(CPI_C/CPI_P))] \times (1/100)$	
A_C	The contract amount for the current year.
A_P	The contract amount for the previous year.
CPI_C	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year.
CPI_P	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year.

9. All payments by the Employer under this Contract will be made only at Thiruvananthapuram.
10. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Thiruvananthapuram and only Courts in Thiruvananthapuram shall have the jurisdiction to determine the same.
11. That the several parts of this contract have been read by the Contractor and fully understood by the Contractor.
12. The contractor is bound to abide by the provision of payment of wages Act 1936 and minimum wages Act 1948. The Bank reserves the right to pay the minimum wages to worker by deducting appropriate amount from liability to contractor, in case minimum wages are not paid.

IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first herein above written.

(If the Contractor is a partnership or an individual)

IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal 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 herein above written.

If the Contractor is a Partnership or an Individual

IN WITNESS WHEREOF The Bank and the Contractor have set their respective hands to these presents and two duplicate hereof the day and year first hereinabove written.

If the Contractor is a Company

IN WITNESS WHEREOF The Bank has set its hand to these presents through its duly authorised official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicate/has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written.

Signature Clause

SIGNED AND DELIVERED by the Reserve Bank of India by the hand of Shri (Name and designation)

..... in the presence of (1) Address

(2) Address

.....

Witnesses

SIGNED AND DELIVERED BY1 If the part is a partnership firm or any individual should be signed by all or on behalf of all the partners. Address

2) Address

.....

Witnesses

THE COMMON SEAL OF

Was hereunto affixed pursuant to the resolutions passed By its Board of Directors at the meeting held on If the Contractor signs under its common Seal the signature clause should tally with their sealing clause in the Articles of Associations.

.....

In the presence of

(1)

(2)

Directors who have signed these presents in taken thereof in the presence of

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

(1)

(2)

SIGNED AND DELIVERED BY the Contractor by the hand Of

Shri

and duly constituted attorney.

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

Annexure -VI**FORM OF BANKERS' SOLVENCY CERTIFICATE FROM A SCHEDULED BANK
(On Bankers' Letter Head)**

Place:

Date:

**The Regional Director
Reserve Bank of India
Estate Department
Thiruvananthapuram
Kerala**

This is to certify that to the best of our knowledge and information M/s. /Shri..... a customer of our bank having marginally noted address, are/is respectable and can be treated as good for any engagement up to a liimit of ₹.....(Rupees).

This certificate is issued without any guarantee or responsibility on the bank or any of its officers.

For the Bank with Name, Designation & Seal

Note:-

- (i) Bankers' certificates should be on letter head of the Bank
- (ii) In case of partnership firm, certificate to include names of all partners as recorded with the Bank.

Note:

- 1. Bankers' certificates should be on letter head of the Bank, sealed in cover addressed to enlistment authority.**
- 2. In case of partnership firm, certificate to include names of all partners as recorded with the Bank.**

Annexure -VII**Details of Service Set up at the place of work**

S. No.	Details of service Centre	
1	Address of Service Centre	
2	Contact numbers	
3	Staff strength	
4	Whether spares parts of the system have been stocked	

Signature of the contractor

Annexure VIII

Undertaking for no deviation

We confirm that all technical terms and conditions and specifications of the Bank including the clarifications made in Pre-bid meeting are acceptable to us and there is no deviation on the same.

Seal of company

Signature of authorized signatory

Annexure IX**Details of Bankers**

The details of our bankers in the following format are uploaded.

Sr. No.	Name of Bank	Branch and its complete address	Name of the contact person	Telephone and FAX number
1	2	3	4	5

Seal of companySignature

Name
Designation

Date

Annexure X
FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF
Application/Proposal
(On Non-Judicial Stamp Paper of appropriate value)

Know all men by these presents, We.....(Name of the Tenderer and address of their registered office) do hereby constitute, appoint and authorise Mr. / Ms.(Name and residential address of Power of Attorney holder) who is presently employed with us and holding the position of as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our tender for **Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram** ' including signing and submission of all documents and providing information / responses to Bank, representing us in all matters before Bank, and generally dealing with Bank in all matters in connection with our proposal for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Note

Power of Attorney should be properly stamped and notarized
Power of Attorney furnished shall be irrevocable.

Signature/(s) of the Tenderer

Name/(s)

Stamp/Seal of the Tenderer

(NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified).

ANNEXURE - XI

Part A (if the tenderer is authorised dealer)

Proforma of Letter of Authorisation from the Original Equipment Manufacturer (OEM) to participate in this Bid

(To be issued by the manufacturers of offered DG Set on their letter head)

Date:

To,

The Regional Director
Estate Department
Reserve Bank of India
Thiruvananthapuram

Subject: Authorisation Letter to M/s _____ for participation in the tender for Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram '

Sir,

We _____, (name and address of the OEM of the DG Set) the manufacturers of _____ (Make of DG Set proposed to be offered) having factories at _____ (addresses of manufacturing / development locations) do hereby authorize M/s _____ (name and address of the tenderer) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment manufactured / developed by us.

We herewith certify that the above mentioned equipments products are not end of the life.

Yours faithfully,

For and on behalf of

M/s _____ (Name of the manufacturer)

Seal and Signature :

Name :

Designation :

Address :

Date :

Note: This letter of authority should be signed by an authorized signatory of the manufacturer.

ANNEXURE - XII

Part B (applicable if the tenderer is an OEM)

DECLARATION BY THE TENDERER BEING ORIGINAL EQUIPMENT MANUFACTURER OF THE OFFERED DG SET

Date:

To,
The Regional Director
Estate Department
Reserve Bank of India,
Thiruvananthapuram

NAME OF WORK: Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram

We _____, (name and address of the tenderer) hereby confirm that we are the original equipment manufacturer of DG Set (Model No.....) being offered by us for the captioned work.

Our factory/ies is / are located at _____ (addresses of manufacturing locations).

We herewith certify that the above mentioned equipments products are not end of the life till December 2030.

Signature/(s) of the Tenderer

Name/(s)

Stamp/Seal of the Tenderer

ANNEXURE- XIII
PROFORMA OF UNDERTAKING FOR SITE VISIT BY CONTRACTOR

(Regarding site visit by the tenderer to understand the work)

To,
The Regional Director
Estate Department
Reserve Bank of India, Thiruvananthapuram.

Dear Sir,

Name of Work: Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram

We,, the tenderer for the above work, hereby confirm that, we have visited the site and understood the proper details of the existing DG set at the premises, and, the scope of work for the proposed new DG set with acoustic enclosure, AMF panel and associated electrical works.

Yours faithfully,

(.....)
Authorized Signatory

(Name and Address of the Company with Company Seal)

Place:

Date:

ANNEXURE- XIV**Performa for Undertaking / Declaration / Certificate by the Bidder regarding country sharing land border with India**

To
 The Regional Director
 Estate Department
 Reserve Bank of India, Thiruvananthapuram

Sir,

Subject: Undertaking Letter of M/s _____ for participation in the bid for Tender for Supply, installation, testing and commissioning of 320 KVA DG Set with Acoustic Enclosure and AMF Panel at Bank's Main Office Building, Thiruvananthapuram.

I / We (Name of bidder) have read and understood the contents of the Office Memorandum (OM) F. No. 6/18/2019-PPD dated July 23, 2020 and its subsequent orders / revision issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India regarding the restrictions on procurement from a bidder of a country which shares a land border with India.

2. Based on the definitions mentioned in the above referred order and its subsequent revisions regarding the bidder, I / We certify that (Name of the bidder)
- i. is not from a country sharing land border with India, or
 - ii. is from a country sharing land border with India and has been registered with the Competent Authority, the certificate of which is enclosed, or
 - iii. is from a country sharing land border with India where Government of India has extended lines of credit, or
 - iv. is from a country sharing land border with India where Government of India is engaged in developmental projects.

(Strikeout whichever of the above is not applicable).

3. I /We hereby certify that (Name of bidder) fulfils all requirements in this regard and is eligible to be considered under the provision of the above referred Office Memorandum and its subsequent orders / revision. I/We also undertake that I/we (Name of bidder) will not sub-contract any work to a contractor from such country unless such contractor fulfils all the requirements under the above referred office memorandum / order.

4. I have understood that, if this Undertaking / Declaration / Certificate submitted by us found to be false, Bank shall be free to terminate our tender / Work Order. Bank shall also be free to initiate any legal action in accordance with law including forfeiting of Earnest Money Deposit / Performance Bank Guarantee / Security Deposit and / or debarring us from participating in tenders invited by the Bank in future.

Signature and name of the authorized signatory of the firm

Date:



संपदा विभाग / Estate Department
तिरुवनंतपुरम / Thiruvananthapuram

Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram

Part II (Price Bid)

Name of the Tenderer: _____

Address: _____

Part II
Price Bid

Tender for Design, Supply, installation, testing and commissioning of 320 KVA DG set with acoustic enclosure, AMF panel and associated electrical works in Bank's Main Office Building at Thiruvananthapuram

Bill of Quantities

Sr. No.	Description	Qty	Unit rate (Rs.)	Amount (Rs.)
1	<p>Supply, installation in position, testing, commissioning and handing over of a silent diesel generator set of capacity of 320 KVA with acoustic enclosure as per detailed specifications and CPCB IV+ norms, 3 phase, 415 volts, 50Hz complete with diesel engine, alternator ,water cooled radiator, fuel storage tank commensurate with capacity of the DG set, self-starting device, domestic grade silencer with insulation ,batteries with connecting copper wires, battery charger, engine panel, base frame, anti-vibration mounts and all connected accessories complete as described in detailed technical specifications. The amount quoted shall be inclusive of following:</p> <p>(a) Basic rate (b) Any other duty, levies etc. (c) Cost of transport and storage cum erection (d) Insurance for transit and storage cum erection (e) Charges for erection, testing and commissioning of the DG set, including obtaining approval from statutory authorities, if an (f) Cost of consumables like diesel, lubricant oil etc. for testing and commissioning of the DG set (approx. 2 hours on full load at factory testing and 2 hours at site).</p> <p>(Please quote rates excluding GST)</p>	1set	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)

2	<p>Micro-Processor based AMF Control Panel: - The Micro-Processor based control panel shall be designed for automatic mains failure and changeover operation of the generator set. The control panel shall be made of sheet steel mounted on a channel frame, floor mounting, free standing, dust proof, cubical type front operated etc. It shall be provided with multi-functional meter (3 line), 2 no's 630A Amps, 50kA MCCB 4 pole, 1 Nos 630 Amps 4 pole ATS/ 02 nos. of 630A 50kA contactor based with all protective devices, current transformers with suitable ratio for metering and protection, LED type indicating lamps, control MCBs, with necessary bus extension for termination DG Cable etc.</p> <p>The panel shall be equipped with tinned copper bus bars of suitable size, duly provided with heat shrink PVC sleeves mounted on suitable support insulators. Separate bus bars for incoming and outgoing with cable entry at bottom of panel with removable gland plate separately for incoming and outgoing cables, panel lifting hooks, base frame etc.</p> <p>Battery charger comprising of inbuilt SMPS a) DC Ammeter b) DC Voltmeter</p> <p>(Please quote rates excluding GST)</p>	1set	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
3	<p>Supply and laying of 3.5C x 240 sq.mm XLPE insulated aluminium armoured cable with 2 runs of 8 SWG copper wire running along the cable in HDPE pipe of suitable size with required earth excavation from generator to AMF panel, refilling the same and making the surface as original etc.</p> <p>(Please quote rates excluding GST)</p>	80 mts	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
4	<p>Termination of above cable with suitable cable glands with lugs and with required accessories etc.</p> <p>(Please quote rates excluding GST)</p>	4 sets	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
5	<p>Supply, laying and termination of control cables from DG set to AMF panel in suitable size HDPE pipe with required earth excavation etc.</p> <p>(Please quote rates excluding GST)</p>	40 mts	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
6	<p>Supply, installation, testing and commissioning of 600mm x 600mm x 3.14 Cub.mm copper plate electrode complete with 25 x 5 mm copper strip to be run along with GI pipe electrode of 50mm dia 3M long, 3mm thick as per IS 3043 complete with all accessories like watering funnel, clamps</p>	04 sets	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)

	<p>etc. The same to be installed in a pit of 3M depth and to be filled with alternate layers of coal (Min 75Kgs) and salt (min 50Kgs.) A brick work masonry shall be constructed of size 450 x 450 x 300mm and cement plastering at both inside and outside walls. A heavy duty cast iron cover plate with framework (Minimum 17 Kg) shall be placed over the chamber. Earth pit to be tested with earth resistance tester and the value should be written at the top of the chamber.</p> <p>(Two sets for body earthing and two sets for Neutral earthing)</p> <p>(Please quote rates excluding GST)</p>			
7	<p>Supply, laying and connecting of 25 x 3 mm copper strip for equipment earthing at 0.5M below ground as strip earth electrode including connection / terminating with SS fasteners as required. (Jointing shall be done by overlapping, brazing and riveting or 2 sets of SS bolt, nut and spring washer placed at 50mm etc.)</p> <p>(Please quote rates excluding GST)</p>	30 mts	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
8	<p>Supply, laying and connecting of 25 x 5 mm copper strip for neutral earthing at 0.5M below ground as strip earth electrode including connection / terminating with SS fasteners as required. (Jointing shall be done by overlapping, brazing and riveting or 2 sets of SS bolt, nut and spring washer placed at 50mm etc.)</p> <p>(Please quote rates excluding GST)</p>	30 mts	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
9	<p>Providing foundation bed for 320 KVA DG set with M20 concrete and necessary steel reinforcement of required strength, and making holes for cable entry etc.</p> <p>(Please quote rates excluding GST)</p>	01 job	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
10	<p>Removing and re-termination of existing cables (Mains incoming and Outgoing cables in AMF panel). The cost inclusive of cable glands, lugs and with required accessories etc, if any.</p> <p>(Please quote rates excluding GST)</p>	04 sets	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
11	<p>Exhaust piping: Supply and installation of insulated MS exhaust piping of suitable dia., MS, C-class, ISI mark pipe for DG set, as recommended by the manufacturer of the engine and as per all relevant Central / State Govt norms, with 50mm thick mineral wool lining for thermal insulation and aluminium cladding, complete with required materials such as supports structure and all allied civil works as described in detailed technical specifications in tender and as directed by the Bank's Engineer.</p>	15 Mts	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)

	The support structures shall be duly painted to prevent corrosion. Height of exhaust pipe should be as per local pollution control board (PCB) norms. (Please quote rates excluding GST)			
A	SUB TOTAL (RS.) (Please do not quote. System will calculate automatically)			(Not to be quoted. System will calculate automatically)
B	GST @ 18% (Please do not quote. System will calculate automatically)			(Not to be quoted. System will calculate automatically)
C	GRAND TOTAL (Rs.) (C=A+B) (Please do not quote. System will calculate automatically)			(Not to be quoted. System will calculate automatically)
D	Less buyback for dismantling and taking away existing old 320KVA DG set without acoustic enclosure and its control panel, AMF panel, exhaust pipe etc inclusive of GST, as is where is basis. (Please quote rates including GST)	1set	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)
E	Cost per annum for Annual maintenance contract without spares (1 visit per month) for the newly installed DG set Engine and Alternator, standard engine control panel, acoustic enclosure, batteries, battery charger unit, AMF panel etc., after guarantee period (DLP), as per terms and conditions specified in Part-I, inclusive of GST. (Please quote rates including GST)	Per annum	(To be quoted online mode)	(Not to be quoted. System will calculate automatically)

Signature & Seal of the firm