



INVITATION OF TENDERS

IN A TWO BID THROUGH E- TENDERING PROCESS

FOR

PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.

PART 1. TECHNICAL BID

CONSULTANTS



3-6-134 flat no 302 SVC-ROYAL DM apartments
STREET NO 18, HIMAYATNAGAR
HYDERABAD – 500 0029.
Tel. / Fax. : 040 -23261158.
E-mail: abhikramarchitects@gmail.com

Name of the Vendor _____

Address: _____

EMAIL ID: _____

Last date for submission of completed Tender document on **06/06/2021 By 17.30 Hrs (IST)**

Opening of Technical bids on **07/06/2021 at 12.30 Hrs (IST)**

ANDHRA PRADESH GRAMEENA VIKAS BANK,
HEAD OFFICE, WARANGAL,
H.no-2-5-8/1, First floor,
Opp: Life line Hospital, Ramnagar,
Hanmakonda, Telangana-506001.



ANDHRA PRADESH GRAMEENA VIKAS BANK

(A Government of India Undertaking) Head Office :: WARANGAL (Sponsored by State Bank of India)

NOTICE INVITING TENDERS

PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.	TENDER No. 3 21/05/2021
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TENDER SCHEDULE

Tender availability	www.apgybank.in & https://etender.sbi	
Last Date of SUBMISSION of Tenders	Date 06/06/2021	Upto 05.30 PM
Date of OPENING/ VERIFICATION of TECHNICAL Tenders	Date 07/06/2021	At 12.30AM
Tender Cost: Non- Refundable	Rs.500 /-	EMD and Tender Cost ,Demand Draft in favour of Andhra Pradesh Grameena Vikas Bank, Warangal.
Tender Value	Rs.10,00,000.00	
EMD	Rs.10,000	
Work completion time	6 Weeks.	
Validity of tender	2 MONTHS	From the date of agreement
Appointed Officers for Enquiries	Mr.Sreenath Phone:9866533393	Mr.K.Vikranth Reddy Phone:9440663873
Tenders should be submitted online to: https://etender.sbi/SBI/ Support Details: Name:Nanadan Valera, Fahad Khan & Dharam Rathod E-mail Id: nandan.v@eptl.in , fahad@eptl.in , dharam@eptl.in Land Line No:079-68136857, 6820, 6842 Official Mobile No.9081000427	EMD and Tender Cost DD should be submitted Physically (By Post/ Speed post/ courier/ by person) before the Due Date of Opening at the Head office of: ANDHRA PRADESH GRAMEENA VIKAS BANK, HEAD OFFICE, WARANGAL, H.no-2-5-8/1, First floor, Opp: Life line Hospital, Ramnagar, Hanmakonda, Telangana-506001.	
TENDER SUBMITTED BY	Name of the Vendor : _____ Address : _____ _____	

PROCESS OF THE TENDER

1. Bidding Process - ON-LINE E-TENDERING PROCESS

1.1 RFP and Bid Submission

The bidder shall have to submit the tender **ON-LINE** downloaded either from our website www.apgvbank.com or from the following e-procurement portal:

M/s e-Procurement Technologies Ltd.

B-704, Wall Street - II,

Opp. Orient Club, Nr. Gujarat College,

Ahmedabad - 380 006. Gujarat State, India

Phone: +91-79-68136852 |6863|6835|6829|6831|6853 | Cell: 9081000427 | 9904407997

Website : <https://etender.sbi>

The Bank shall not consider any request for date-extension for bid-submission on account of late receiving / downloading of RFP by any bidder. But, however, any suggestion or advice of value addition from the vendors to the tender or rectification of any short comings in tender may entail in issue of Corrigenda before the last date or postpone the tender as the Bank may deem necessary.

5.2 Mode of submission of tender – ON-LINE

Tenders are to be submitted **ON-LINE** by uploading in the portal advised above.

- 1. Tender Fee & Earnest Money Deposit – The DDs should be scanned and uploaded / For exemption, MSME / NSIC Certificate to be uploaded**
- 2. Non-financial / Technical Bid – Should be signed on all pages and uploaded**
- 3. Financial Bid / Price Bids - The documents pertaining to the financial bid should be scanned and uploaded**

5.3 Procedure of opening of tender

After the last date of submission of the tenders, the Bank will open the technical bids **ON-LINE** and evaluate by verifying the eligibility documents submitted in the portal:

1. The EMD will be verified first. Those **not** submitting the **EMD DD (IN ORIGINAL)** to **APGVB** will be rejected at initial. Vendors with MSME / NSIC certification in printing shall be exempted from EMD.
2. Other eligibility documents will be verified. Vendors should take **CARE** to submit all the eligibility requirements and it will be at the Bank's discretion to allow or not to allow to ask for any further documents for evaluation.
3. Price bids will be considered for only those vendors who have qualified in the technical verification.

Bank reserves the right to, open or not to open the financial bid of any vendor basing on the acceptance/rejection of non-financial bid and past performance.

5.4 Decision of the Bank shall be final

The decision of the Bank shall be final and binding on the vendor in the matter of interpretation of any clause included in this tender or any dispute arising out of the execution of tender. Bank can also terminate the tender without assigning any reason.

5.5 Address for submission

Bids should be submitted ON-LINE to ,

[M/s e-Procurement Technologies Ltd.](#)

B-704, Wall Street - II,

Opp. Orient Club, Nr. Gujarat College,

Ahmedabad - 380 006. Gujarat State, India

Phone: +91-79-68136852 |6863|6835|6829|6831|6853 | Cell: 9081000427 | 9904407997

Website : <https://etender.sbi>

The tender offer with all necessary documents mentioned are to be submitted on or before **06/06/2021, before 5.30 PM.**

Contact: For any technical enquires: Mr.Sreenath Phone:9866533393

Mr.K.Vikranth Reddy Phone:9440663873

5.6 Change of Tender date in case of holiday

In the event of the specified date for bid-submission being declared a holiday for the Bank, the bids will be received up to the appointed time on the next working day.

5.7 Cost of Bidding – Vendor to bear

The bidder shall bear all costs associated with the preparation and submission of its bid and the Bank will, in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

5.8 Late Bids – Rejection

Tenders cannot be submitted late.

5.9 Withdrawal / Amendment to RFP Contents:

The bank reserves the right to accept or reject any / all proposal(s), to revise the tender, to request one or more resubmissions or clarifications from one or more vendors, or to cancel the process in part or whole. The Bank also reserves the right to amend the RFP at any time prior to the last date for bid-submission. The Bank may, for any reason, whether at its own initiative or in response to clarification(s) requested by a bidder, modify the RFP contents by amendment. Amendment / Corrigendum will be notified on the Bank's website / portal and will be binding on participating bidders. The Bank shall not be liable for any communication gap. In order to provide prospective bidders, reasonable time to take the amendment into account for preparation of their bid, the Bank may, at its discretion, extend the last date for bid-submission.

5.10 Two Stage Bidding Process

The bidder will have to submit response to the RFP with the documents mentioned in PART-A and PART-B as mentioned below.

PART – A - TECHNICAL BID – PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK’S OWN BUILDING AT NALGONDA, TELANGANA STATE. Should include the relevant supporting papers. Contract documents consist of, Notice Inviting Tender, Eligibility criteria, Form of Submission of tender General Notes, General Conditions of Contract, Special Conditions of Contract, Form Of Agreement, Technical Specifications, Schedule of Approximate Quantities and Rates, General Specifications of Materials ,safety code Model rules for protection, Abstract of General conditions of contract and Declaration

2. **Tender Cost of Rs.500/- (Rupees five hundred only) & Earnest Money Deposit of Rs.10,000/-(Rupees Ten thousand only)** in the form of two separate Demand Drafts issued by scheduled commercial bank favouring **Andhra Pradesh Grameena Vikas Bank, payable at Warangal**, must be part of the Technical Bid by uploading the scanned DDs.

A) PROVISIONS FOR MICRO, SMALL and MEDIUM ENTERPRISES (MSME) and NATIONAL SMALL SCALE INDUSTRIES/CORPORATIONS: - As per Government of India’s Public Procurement Policy act 2012, certain benefits will be given for MSME Units and NSSIC. The details are as under:

The Public Procurement Policy shall apply to MSMEs registered with District Industries Centres or Khadi Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts & Handloom or any other body specified by Ministry of Micro, Small & Medium Enterprises.

B) MSMEs and NSSIC are exempted from paying Tender/RFP fee/cost, EMDs. For getting the benefits in case of MSE firms and NSSIC, the firms shall submit relevant documents such as valid registration Certificates and exemption certificate from relevant authorities.(Note for Relevant trade only).

**HOWEVER,
TWOSEPARATE DEMAND DRAFTSFOR TENDER COST & EMD (MSME CERTIFICATE FOR EXEMPTION) SHOULD BE SUBMITTED AT OUR CMPD-DEPARTMENT, HEAD OFFICE WARANGAL BEFORE THE LAST DATE OF SUBMISSION OF THE TENDER ONLINE.**

**Address: ANDHRA PRADESH GRAMEENA VIKAS BANK
Head Office H.No: 2-5-8/1,First Floor Opp to Life Line Hospital
Ramnagar Hanmakonda Telangana-506001.**

IF THE DEMAND DRAFTS (MSME CERTIFICATE COPY FOR EXEMPTION) DOES NOT REACH THE APGVB HEAD OFFICE, WARANGAL BEFORE THE LAST DATE AND TIME OF SUBMISSION, THE TENDER SHALL NOT BE CONSIDERED FOR EVALUATION.

- **Return of Earnest Money Deposit:** The earnest money of the unsuccessful bidders will be returned after entering into agreement with successful bidders.

- **Forfeiture of Earnest Money Deposit:** This EMD amount will be forfeited, if the successful bidder refuses to accept work order or having accepted the work order fails to carry out his obligation mentioned therein.

SECURITY DEPOSIT:

The EMD of the successful bidder/s will be held by the Bank throughout the Defects Liability period of the tender as **Security Deposit**. No interest will be payable on the Earnest Money Deposit/Security Deposit.

4. **Technical Bid:** The technical bid should **COMPULSORILY** include all the requirements of Technical specifications, Terms & Conditions and the following documents, duly filled in, stamped, signed, filed in the seriatim as below and serially numbered.

Contract documents consist of, Notice Inviting Tender, Eligibility criteria, Form of Submission of tender General Notes, General Conditions of Contract, Special Conditions of Contract, Form Of Agreement, Technical Specifications, Schedule of Approximate Quantities and Rates, General Specifications of Materials ,safety code Model rules for protection, Abstract of General conditions of contract and Declaration,

PART – B (COMMERCIAL/PRICE BID) – PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE. consisting of:

1. Priced Bid and Drawings duly filled, stamped and signed on all pages for all items (partial quote is not acceptable).
2. The Bank expects the bidder to carefully examine all instructions, forms, terms & conditions, technical specifications etc., mentioned in this RFP. Failure to furnish all information required for submission of a bid not substantially responsive to the RFP in every respect will be at the bidder's risk and may result in the rejection of its bid without any further reference to bidder.

5.11 Conditional Bid

Any conditional bid is not valid and shall be summarily rejected

5.12 Rates quoted to be EXCLUSIVE of GST

The RATES quoted should be **EXCLUSIVE of GST**. No condition, such as, + GST will be accepted.

However, the quoted rates should be inclusive of all the charges for shipping, transit insurance and installation at the delivered locations.

ANNEXURE

SL.NO	PARTICULARS	PAGE	
		FROM	TO
1.	NOTICE INVITING TENDER/INSTRUCTIONS TO TENDERS	2	11
2.	ELIGIBILITY CRITERIA	12	17
3.	LETTER OF TRANSMITTAL	18	18
4.	FORM OF SUBMISSION OF TENDER	19	20
5.	GENERAL NOTES	21	22
6.	GENERAL CONDITIONS OF CONTRACT	23	39
7.	SPECIAL CONDITIONS	40	46
8.	FORM OF AGREEMENT	47	49
9.	SCHEDULE OF APPROXIMATE QUANTITIES AND RATES	50	50
10.	SAFETY CODE	51	51
11.	MODEL RULES FOR THE PROTECTION OF HEALTH & SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY VENDOR	52	55
12.	TECHNICAL WORK SPECIFICATIONS	56	69
13.	LIST OF APPROVED MAKE OF MATERIALS	70	70
14.	ABSTRACT TO GENERAL CONDITIONS OF CONTRACT	71	71
15.	DECLARATION	72	72
16.	PRICE BID	73	76

INSTRUCTIONS TO THE TENDERER

M/S _____

Dear Sirs,

Sub- PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE..

Sealed tenders on item rate basis are invited in two bid system i.e., Technical bid PART 1 and Price bid PART 2 for **PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.** From reputed Generator works Vendors who are eligible to tender as pre-qualified criteria mentioned in the tender document. Tender Documents can be downloaded from banks website www.apgvbank.in. Tender cost **Rs. 500 (Rupees Five hundred only)** in the form of DD drawn in favour of APGVB payable at Warangal, which is non refundable. Exempted in Case of MSE and NSIC of relevant trade, or any other body specified by Ministry of Micro, Small & Medium Enterprises.

1. Contract documents consist of :

PART 1

Notice Inviting Tender, Eligibility criteria, Form of Submission of tender General Notes, General Conditions of Contract, Special Conditions of Contract, Form of Agreement, Technical Specifications, Schedule of Approximate Quantities and Rates, General Specifications of Materials, Abstract of General conditions of contract and Declaration.

PART 2

Schedule of quantities of work.

PART-1, TECHNICAL BID will be opened on **06/06/2021 at 12:30 Hrs.** The PART-2, PRICE BID of the qualified Vendors shall be opened at a **later date** and will be intimated separately.

2. The Vendors must quote in figures as well as in words. If any rates, written in figures are different from the rate written in words, the rate mentioned in words will be considered.
3. The Vendor Must quote for all the items in the given in the Bill of quantities. If any item is not quoted by the tenderer/Vendor, the tender will be treated invalid and summarily rejected and will be disqualified.

4. The tender document must be filled in English and all the entries must be made by the hand and Written in ink. If any of the documents are missing or un-signed, the tender shall be considered invalid.
5. Earnest money amounting to **Rs.10000.00 (RUPEES TEN THOUSAND ONLY)** is to be deposited along with the tender in the form of Demand Draft payable at Warangal and drawn in favour of APGVB, otherwise the tender is liable for rejection.

PROVISIONS FOR MICRO & SMALL ENTERPRISES (MSME):- As per Government of India's Public Procurement Policy act 2012, MSME firms are exempted from paying Tender cost& EMD. The details are as under:

- A) The Public Procurement Policy shall apply to MSEs registered with District Industries Centres or Khadi Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts & Handloom or any other body specified by Ministry of Micro, Small & Medium Enterprises.
 - B) MSEs are exempted from paying Tender/RFP fee/cost, EMDs. For getting the benefits in case of MSE firms, shall submit relevant documents such as valid MSE registration Certificates and exemption certificate from relevant authorities. (Note for Relevant trade only)
6. The successful tenderer will have to pay an amount of initial security deposit, which shall be 2.0% of the accepted value of the tender including the EMD, by means of D.D. in favour of the APGVB payable at Warangal. The initial security deposit is to be paid by the Vendor to APGVB within 7 days of intimation to him of the acceptance of the tender. The initial security deposit will be invested with the APGVB for the duration of the contract period and will be returned to the Vendor without any interest, after issue of the virtual completion certificate. No interest is allowed on the retention money.
 7. The acceptance of a tender will rest with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete in any respect are liable to be rejected.
 8. All compensation or other sums of money payable by the Vendor to Clients under the terms of this contract may be deducted from the security deposit, or from any sum that may be or may become due to the Vendor on any account whatsoever and in the event of the Security Deposit being reduced by reasons of any such deductions, the Vendor shall within 10 days of being asked to do make good in cash or by cheque any sum which have been deducted from his security deposit.
 9. Tender containing any condition leading to unknown / indefinite liability, are liable to be summarily rejected. If at all any rebate(s) is/are to be offered the tenderer shall first quote his rates strictly on the terms and conditions stipulated in tender document and then show separately rebate(s) offered specifying the conditions for such rebate(s). Failure to follow this procedure will render the tender liable to summarily rejection.

10. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the Vendors who resort to canvassing will be liable to rejection.
11. The tenderer should quote their (own) rates for undertaking the work.
12. Time is the essence of the contract. The work should be completed in **6 Weeks** from the date of the work order issued to the Vendor to commence the work. The successful Vendor will have to give CPM/PERT chart of various activities of works to be done so that the work gets completed within the stipulated time. The chart shall be submitted within 3 days from the date of acceptance of the tender.
13. Tenders for works shall remain open for acceptance for a period of **15 days** from the date of opening of tenders. If the tenderer withdraws his tender before the expiry of the said period or makes any modifications in terms and condition of the tender which are not acceptable to the APGV B, then the APGV B without prejudice to any other right or remedy be at liberty to forfeit the earnest money.
14. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that, after the work is awarded, he will have to enter into an agreement for each component with the competent authority in the APGV B.
15. The tenderer should visit the site to ascertain the working conditions and local authority regulations / restrictions if any and other information required for the proper execution of the work.
16. The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. APGV B reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / before. Vendor will be paid for the actual work done at the site duly verified by the Empanelled Architect, Empanelled Engineer and the concerned official of the APGV B.
17. The unit price shall be deemed to be fixed price. In case of extra items, a record of labour charges paid shall be maintained and shall be presented regularly to APGV B for checking. The settlement will be made based on figures arrived at jointly and taking unit price given in the contract assigned to the successful Tenderer. In case of extra items where similar or comparable items are quoted in the tender, extra rates shall be based on tender rates.
18. If the rate quoted by the Vendor for any item / items are not workable or abnormally lower than the market rate, the APGV B may demand Bank guarantee from the Vendor for satisfactory completion of these work. The bank guarantee amount will be not less than 50% of the estimated amount of the items for which the rates are not workable or abnormally low. This bank guarantee will be released after completion of these works (unworkable and abnormally low rated items (below 25% of Estimated rate)) to the satisfaction of APGV B
19. No employee of the APGV B is allowed to work as a Vendor for a period of 2 years of his/her retirement from APGV B Services without previous permission of the APGV B. This contract is liable to be cancelled, if either the Vendor or any of his employee is any

time to be such a person who had not obtained the permission of APGVB as aforesaid before submission of the tender or engagement in the Vendor's service.

20. **Estimated Cost: Rs.10,00,000.00 Plus GST as applicable.**

**General Manager I,
APGVB, Head Office Warangal,
H.no-2-5-8/1, First floor,
Opp: Lifeline Hospital, Ramnagar,
Hanmakonda, Telangana-506001.**

ELIGIBILITY CRITERIA

SECTION – 1

S.No	Criteria	Documents Required
1	The Vendor should have minimum of 07 (Seven) years' experience in the field as on 31.03.2021.	Copy of Registration of the Firm or Copy of incorporation At least one copy of the work order from the clients prior to 31.03.2014 .
2	Bidder should have a minimum of Rs.3.00 Lakhs annual average turnover per year during last three financial years i.e. 2016-17, 2017-18, 2018-19 from the related business.	Audited balance sheet and P&L account for years mentioned and certificate from the Chartered Accountant.
3	The Tenderer should have executed any of the following work in a single contract during the last Seven (7) years ending with 31.03.2021 for at least, One (1) similar work costing Rs.8.00 LAKHS (80% of Tender value) OR Two (2) similar works each costing Rs.5.00 LAKHS (50% of Tender value) OR. Three (3) similar works each costing Rs.4.00 LAKHS (40% of Tender value) Similar work means carrying out works associated with supply & installation of Generators for Government, Nationalized banks, PSU's, Reputed Corporate companies, MNC's, IT companies.	Order copies and satisfactory completion certificates clearly indicating the cost & nature of work executed, date of commencement & completion issued by the Clients.
4	The Vendor must have valid GST registration, PAN number.	Copy of the GST registration certificate and copy of PAN card.
5	The bidder should not have been black-listed/ barred by any Public Sector Bank, RBI or IBA or any other Government/PSU agencies during last five years.	An undertaking in this regard is to be submitted to Bank by Bidder on Rs.100/- Stamp Paper. Bank has right to verify the same from concerned authorities/agencies.

Signature of Vendor

SECTION – 2

FINANCIAL DETAILS

ANNUAL TURNOVERS FOR THE LAST THREE YEARS

S.No.	Year	Turnover from supply & installation of Generator works (in lakhs)	Turnover from all other sources (in lakhs)	Remarks
1				
2				
3				

1. List your sources of finance

- Own resources _____
- Bank credit _____
- Other sources specifies if any? _____

2. Name and address of Bank from whom reference can be obtained.

Name : _____

Address : _____

Phone: _____

Note:

1. Please attach certified/attested copies of the latest IT and/or Profit and Loss account statement to support the information furnished, failing which your firms will be summarily rejected.
2. Please attach certified Certificate of financial Soundness by Bank.

Signature of Vendor

SECTION – 3

EXPERIENCE PROFILE

<u>DETAILS OF SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS</u>									
S.No.	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Actual date of completion	Value of completed work (in lakhs)	Reasons for delay	Penalty if any
SIMILAR WORKS									
1									
2									
3									
4									

Note:

1. Tenderer must attach copies of the certificates issued by the Client.
2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached

Relevant certificates of having completed similar works issued by competent authority must be enclosed failing which your tender will be summarily rejected.

Signature of Vendor

DETAILS OF OTHER WORKS COMPLETED IN LAST SEVEN YEARS

S.No	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Actual date of completion	Value of completed work (in lakhs)	Reasons for delay	Penalty if any
OTHER WORKS									
1									
2									
3									
Note: 1. Tenderer must attach copies of the certificates issued by the Client. 2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached									

Relevant certificates of having completed similar works issued by competent authority must be enclosed failing which your tender will be summarily rejected.

Signature of Vendor

SECTION – 4

<u>DETAILS OF ON GOING WORKS</u>								
S.No	Description of the work	Name and address of the Employer	Contract No. and date.	Date of award of work	Stipulated date of completion	Value of work as per order (in lakhs)	Value of work completed so far (in lakhs)	Remarks
1								
2								
3								
4								
5								

Note :
1. Please attach copies of the certificates issued by the Client.
2. Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached

Signature of Vendor

SECTION – 5

DOCUMENTS TO BE ATTACHED WITH THE TENDER BY THE TENDERER

1. Details of all works and similar works completed in last Seven years.
2. Annual Turnover for the last three years with supporting documents.
3. Registration of Company.
4. Partnership deed/Memorandum and Articles of Association of the firm.
5. Registration under Labour Laws.
6. GST Registration Certificate.
7. Details of Skilled and Trained Manpower including Engineers and Technical staff Presently employed.
8. Details of Tools, Plants and Machinery (in working conditions) owned.
9. Details of Testing, Measuring and Inspection Equipment and facilities for Calibration owned.
10. Details of Safety Appliances and Equipment owned
11. ISO 9000 certificate (if any).
12. **General Service tax registration certificate to be enclosed COMPULSORY**
13. Original Power of Attorney of the person signing the tender documents or photocopy duly attested by Notary Public.
14. Details of on-going works & supporting Documents.
15. Details of Plants and Machinery proposed to be deployed on the project.
16. Details of Engineers and Technical staff proposed to be deployed on the project along with organization chart and bio-data of key personnel.
17. Programme for execution of works.
18. Month wise Cash flow requirements.

Signature of Vendor

LETTER OF TRANSMITAL

General Manager- I,
APGVB, Head office,
H.no-2-5-8/1, First floor,
Opp: Lifeline Hospital,
Ramnagar, Hanmakonda,
Telangana-506001.

Sir,

SUB: PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.

Having examined the details given in invitation and technical note for the work **PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.** hereby submit the pre-qualification information and relevant documents.

1. We hereby certify that all the statements made as information supplied in the enclosed forms and Annexure are true and correct.

2. We have furnished all information and details necessary as per check list for pre-qualification and have no further pertinent information to supply.

3. We submit the following certificates in support of our suitability, technical Knowledge, Capability for having successfully completed the following works.

Name of the work

Client / Owner

- 1.
- 2.
- 3.

Enclosures:

Signature of the tenderer
Seal of Tenderer
Date of Submission

Signature of Contract

FORM OF SUBMISSION OF TENDER

TO

**General Manager- I,
APGVB, Head office,
H.no-2-5-8/1, First floor,
Opp: Lifeline Hospital,
Ramnagar, Hanmakonda,
Telangana-506001.**

Dear Sir/s,

Ref: **PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.**

I / We the undersigned have carefully gone through and clearly understood, after visiting the site, Contract documents consist of **PART 1** Notice Inviting Tender, Eligibility criteria Form of Submission of tender General Notes, General Conditions of Contract' Special Conditions of Contract, Form Of Agreement, Technical Specification, Schedule of Approximate Quantities and Rates General Specifications of Materials , Abstract of General conditions of contract and Declaration **PART 2** Price Schedule of Probable Quantities prepared by your Architects **M/s. abhikram-S**, 3-6-134, Flat no.302, SVC-ROYAL DM Apartments, street no.18, Himayatnagar Hyderabad 500029

I / we do here by undertaken to execute and complete the whole or part of the work (as desired by you) at the respective rates quoted.

I / We are depositing as earnest of money sum of **Rs.10,000.00 (RUPEES TEN THOUSAND ONLY)** by demand draft in favour of **APGVB, payable at Warangal**, along with this tender for due execution of the work at my / our tendered rates together with any variations which shall be adjusted at prices based by the Architects / Employer on our tendered rates.

In the event of this Tender being accepted I / we agree to enter into an agreement as and when required and executed the contract according to your form of Agreement, in default whereof, I / we do hereby bind my-self / ourselves to forfeit the aforesaid deposit.

I / we further agree to complete the work included in the said schedule of quantities within ____ days from the date of the work order issued to commence the same.

Date of commencement shall be either one-week, from the date, the acceptance letter is issued to the Vendor or day on which the Vendor is instructed to take possession of site whichever is later.

I / we agree not to employ sub-Vendors other than those that may be approved by Architects / Employer.

I / We agree to pay Government, General and Sales Tax (State and Central), Excise and Octroi duties, service tax , insurance and all other taxes including works contract extra, turnover tax, VAT etc as prevailing foretime to time, on such items for whom same is to be levies, and the rates quoted by me / us are inclusive of the same.

Yours Faithfully,

Vendor's Signature _____

Designation _____

Address _____

- 1.
- 2.

GENERAL NOTES

1. PROCEDURE OF FILLING AND SUBMISSION OF TENDER

- i) The tenderers should quote their rates in figures and words where the quantities have been indicated in the relevant items of the schedule of quantities, failures to do so may invalidate the tender. Erasing or over writing shall not be allowed. Corrections in the tender should be avoided if this becomes unavoidable, the entire rate (and not a portion only) shall be scored out and signed (not simply initiated) by the tenderer as token of such cancellation. A fresh rate in specified manner shall then be correctly written.
- ii) In the event of the tender being submitted by a firm, it must be signed by a member or members of the firm having legal authority to do so, and if called for, the legal documents in support thereof must be produced for inspection and the same in the case of the firm carried out by one member of a joint family. It must disclose that the firm is duly registered under the India Partnership Act. Any tender signed by a member not holding a power of attorney shall be treated as informal.
- iii) All corrections are to be initiated.
- iv) The tenderer is to quote this rate in ink both in words and figures in English. In case of any variation, the rates quoted in the words in the “Original” copy of the tender shall only be valid. The tender shall be clearly and legibly written and whole writing must be by the hand of the person signing the tender and with the same pen and ink. Failure to do so may invalidate the tender.

The employer reserves to itself the right to accept the lowest or any tender or split up and distribute any items of work to any specialist firm or firms without assigning any reason. The employer reserves the right to split up and distribute the work to more than one tenderer, if necessary. Person tendering shall submit and return together with his tender, this condition of contract, specifications and the priced schedule of quantities and all set of papers signed on all the pages in a sealed cover. Signature will be deemed to be the acceptance of the contents of these tender papers by the tenderer. All enclosures to the tender shall be in duplicate.

Tenderer shall note that their tenders shall remain open for acceptance for a minimum period of 2 months from the date of opening the tenders. The tender must be unconditional. Conditional tenders may be summarily rejected.

Submission of tenders:

The tenders are to be submitted along with the copy of “General Clause of Contract and Technical Specifications” duly signed by the tenderer in a sealed cover at the office as mentioned in the tender notice. The authorized representatives of tenderer are present during opening of the tender.

2. RATES TO INCLUDE:

While quoting their rates the tenderer should include the following if otherwise not stated herein before.

- a) Necessary cost of taking samples of materials supplied by them for construction including cement and steel, wood/tiles etc., testing of the same at Govt.'s / approved laboratory including transportation, cost of the samples, as and when required.
- b) Submission of test reports of other materials as may be specified by Architects / PMC

3. STORAGE OF MATERIALS:

The Vendor shall not store their materials and debris within the premises other than the work site handed over to him.

4. LABOUR HUTMENT:

Shelter or stay for the labourers has to be arranged by the Vendor at his own expense and responsibility.

5. IDLE LABOUR:

In case the construction work is held up for any site conditions not attributable to the Vendors or for any decisions instructions / want of details from Employer / Architects or for any of the conditions as per Article 30, the Vendor shall be allowed reasonable extension of time by the employer but any claim for idle labour shall lie under the above conditions. Vendor's quoted rates should include for all such contingencies.

6. The Vendor shall engage one competent person at site who shall take the instructions from the Architects. The work should not suffer due to lack of supervision, manpower and materials.
7. The Vendor is required to co-ordinate his works along with other agencies working at site. He has to reimburse any of the damage made by him or any of his representatives for any have the other agency or owner at site.
8. Making of any cut-out / opening for electrical wiring / fitting in any of false ceiling, partition, Paneling, masonry work etc., and providing panels of the same finish in partitions, paneling shall not be paid extra.
9. The Vendor is required to fabricate a sample where required, or any item so installed for approved. Any changes made by the Architect's / Employers, in the sample to the specifications as mentioned in the tender, shall not be deducted or paid extra. The bulk production of the furniture can only be taken up after the final approval of the sample of the item.
10. The partitions shall be so fixed that all joinery work is in plumb and true in line. The partition frame shall be firmly fixed to the floor and ceiling by using suitable wall plugs and screws.
11. The Vendor shall check all dimensions before fabricating and fixing the partitions or ceiling in position at site.
12. All measurements given in the schedule hereunder are for the purpose of tender only. Payment will be made on actual measurement of the work done.
13. All measurements shall be as per relevant I.S.I. standards.

GENERAL CONDITIONS OF CONTRACT

Except where provided for in the description of the individual items in the schedule of quantities and in the specifications and conditions laid down hereinafter and in the drawings, the work shall be carried out as per standard specifications and under the direction of Employer / Architect.

1. INTERPRETATION

In constructing these conditions, the specifications, the schedule of quantities, tender and agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires.

- I. **Employer:** The term employer shall denote **APGVB** with their Head Office at H.no-2-5-8/1, First floor, Opp: Lifeline Hospital, Ramnagar, Hanmakonda, Telangana-506001 and any of its employees representative authorized on their behalf.
- II. **Architects / PMC Consultants:** The term Architects shall mean **M/s. abhikram-s,**
- III. **Vendor:** The term Vendor shall mean _____ (Name and address of the Vendor) and his / their heirs, legal representatives, assigns & successors.
- IV. **Site:** The site shall mean the site where the works are to be executed as shown within boundary in red border on the site plan including any building and erection thereon, allotted by the employer for the Vendors use.
- V. **Site Supervision:** Supervision by the Architect
- VI. **Drawings:** The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further drawings, which may be supplied, or any other instruction, which may be given by the Employer during the execution of the work.

All drawings relating to work given to the Vendor together with a copy of schedule of quantities are to be kept at site and the Employer / Architects shall be given access to such drawings or schedule of quantities wherever necessary.

In case any detailed Drawings are necessary Vendor shall prepare such detailed drawings and / or dimensional sketches therefore and have it confirmed by the Employer / Architects as case may be prior to taking up such work.

The Vendor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specifications and schedule of quantities or to additional instructions at least 10 days ahead from the time when it is required for implementation so that the Employer may be able to give decision thereon.

- VII. **“The Works”** shall mean the work or works to be executed or done under this contract.

- VIII.** “**Act Of Insolvency**” shall mean any act as such as defined by the Presidency Towns Insolvency Act or in Provincial Insolvency act or any amending status.
- IX.** “**The Schedule Of Quantities**” shall mean the schedule of quantities as specified and forming part of this contract.
- X.** “**Priced Schedule Of Quantities**” shall mean the schedule of quantities duly priced with the accepted quoted rates of the Vendor.
- XI.** “**Contract**” shall mean Contract documents consist of Notice Inviting Tender, Eligibility criteria Form of Submission of tender General Notes, General Conditions of Contract, Special Conditions of Contract, Form Of Agreement, Technical Specification, Schedule of Approximate Quantities and Rates General Specifications of Materials, Abstract of General conditions of contract and Declaration the schedule of quantities, specifications and drawings attached here to and duly signed.
- XII.** ‘**Contract Price**’ shall mean the sum named in the Tender subject to such additions thereto or deductions there from as may be made under the provisions hereafter contained.
- XIII.** ‘**Notice in Writing**’ or written notice shall mean a notice in writing, type or printed characters sent (unless delivered personally or otherwise provided 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.
- XIV.** ‘**Net Prices**’ any arriving at the Contract amount the Vendor shall have added to or deducted from the total of the items if the Tender any sum, either as a percentage or otherwise, then the net price of any item in the tender shall be the sum arrived at by adding to or deducting from the actual figure appearing in the tender as the price of that item a similar percentage or proportionate sum. Providing always that in determining the percentage or proportion of the sum so added or deducted by the Vendor, the total amount of 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 hold to mean rates or prices so arrived at.
- XV.** ‘**Virtual Completion**’ shall mean the building is in the opinion of the Architect and Employer fit for occupation.
- XVI.** Words importing persons include firms and corporations. Words importing the singular only, also include the plural and vice verse where the Context requires.

2. SCOPE OF CONTRACT

The Vendor 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 Architect and Employer. The Architect with approval of Employer issue further

drawings and / or written instructions, details directions and explanations which hereafter collectively referred to as 'Architect's Instructions'. In regard to:

- a) The variation or modification of the design quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the drawings or between the schedule of quantities and / or drawings and / or specification.
- c) The removal from the site of any defective material brought thereon by the Vendor and the substitution of any other material thereof.
- d) The demolition removal and / or re-execution of any work executed by the Vendor/s.
- e) The dismissal from the work of any persons employed there upon.
- f) The opening up for inspection of any work covered up.
- g) The rectification and making good of any defects under clauses hereinafter mentioned and those arising during the maintenance period (Defect Liability Period).

The Vendor shall forthwith comply with and duly execute any work comprised in such Employer's or his agent / Architect's instructions, provided always that verbal instructions, directions and explanations given to the Vendor's or his representative upon the works by the Employer's or his agent / Architects shall, if involving a variation, be confirmed in writing to the Vendor/s within seven days. No works, for which rates are not specifically mentioned in the priced schedule of quantities, shall be taken up without written permission of the Employer or his agent / Architects. The employer in consultation with the Architects as provided in clause "variation" shall fix rates of items not mentioned in the priced schedule of quantities.

Regarding all factory made products for which ISI marked products are available, only products bearing ISI marking shall be used in the work.

3. TENDERS SHALL VISIT THE SITE

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

4. TENDERS

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed on the last page together with initials on every page. Initial / signature will indicate the acceptance of the tender papers by the tenderer.

(Also see general rules and instructions for the guidance of Tenderers)

The schedule of quantities shall be filled in as follows:

- I. Amount column to be filled in for each item and the amount for each sub head as detailed in the “Schedule Of Quantities”.

The Employer reserves the right to reject the lowest or any tender and also to discharge any or all of the tenders of each section or to split up and distribute any item of work to any specialist firm or firms, without assigning reasons.

The tenderers should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting. If called upon by the Employer / Architects detailed analysis of any or all the rates shall be submitted. The Employer / Architects shall not be bound to recognize the Vendor’s analysis. All corrections are to be initialed.

The works will be paid for as “measured work” on the basis of actual work done and not as “LUMPSUM” contract, unless otherwise specified.

All items of work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved, directly related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump-sum charges in the tender in respect of any items of work will be made for the actual work done on the basis of lump sum charges as will be assessed to be payable by the Employer / Architects.

The employer has power to add to, omit from any work as shown in drawings or described in specifications or include in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the Vendor without authorization from the Employer. No variation shall vitiate the contract.

The tenderer shall note that his tender shall remain open for consideration for a period of **three months** from the date of opening of the tender.

5. AGREEMENT

The successful Vendor will be required to sign agreement in accordance with the draft agreement from enclosed and the schedule conditions. The Vendor shall pay for all stamps and legal expenses, incidental thereto. However the written acceptance by the employer of a tender will constitute a binding contract between the employer and

the person so tendering whether such formal agreement is or is not subsequently executed.

6. AUTHORITIES, NOTICES, PATENT RIGHTS AND ROYALTIES:

The Vendor shall confirm to the provisions of the statutes relating to the works, and so to the regulation and bylaws of an local authority, and of any water, lighting and other companies on authorities with whose systems the structures are proposed to be connected and shall before making any variation from the drawings or specifications, that may be necessitated by so conforming given to the Architect's written notice, specifying the variations proposed to be made and the reason for making it apply for instruction thereon. In case, the Vendor shall not within the 10 days receive such instruction, he shall proceed with the work conforming to the provisions, regulations or bylaws in questions.

The Vendor shall bring to the attention of the Architect all notices required by the said acts, regulations or bylaws to be given to any Authority, and pay to such authority or to any Public Officer all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Architect /Employer.

The Vendor shall identify the Employer against all claims in respect of patent rights, designs, trade marks or name or the protected rights in respect of any constructional plant, machine, work or material used for or in connection with the works or temporary works and from and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto. The Vendor shall defend all actions arising from such claims, unless he has informed the Architects, before any such infringement and received their permission to proceed and shall himself pay all royalties, license fees, damages, coat and charges of all and every sort that may be legally incurred in respect thereof.

7. NOTICES AND STATUTORY REGULATIONS:

The Vendor shall give all notices and pay all fees and shall comply all Acts and Regulations for the successful completion of the contract works. The whole of the work is to be complied with as per the requirements and bylaws of the relevant statutory authorities including contract labour (Regulation and Abolition) Act 1970.

8. QUANTITY OF WORK TO BE EXECUTED

The Schedule of Quantities unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Procedure of the Architects shall be considered to be approximate and no liability shall attach to the Architect for any error may be discovered therein. The Employer reserves the right to execute only a part or the whole or any excess thereof without assigning any reason therefore.

The Vendor shall be deemed to have satisfied himself before tendering 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 things necessary for the completion of the works.

9. **OTHER PERSONS ENGAGED BY THE EMPLOYER**

The Employer reserves the right to execute any part of the work included in this contract or any work, which is not included in this contract by the other Agency, or Persons and Vendor shall allow all reasonable facilities and use of his scaffoldings for the execution of such work. The main Vendor shall extend all cooperation in his regard.

10. **EARNEST MONEY AND SECURITY DEPOSITS**

The tenderer will have to deposit an amount of **RS. 10,000.00 (RUPEES TEN THOUSAND ONLY)** in the form of Demand draft drawn in favour of **APGVB PAYABALE AT WARANGAL** at the time of submission of tender as an Earnest money. The employer is not liable to pay any interest on the earnest money. The Earnest money of the unsuccessful tenderers will be refunded without any interest soon after the decision to award the work is taken after the expiry of the validity period of the tender. The successful tender to whom the contract is awarded will have to deposit as initial security deposit a further sum to make up 2.0 % of the value of the accepted tender including the Earnest Money. The initial security deposit will have to be made within 14 days from the date of acceptance of tender, failing which the employer at his discretion may revoke the letter of acceptance and forfeit the earnest money deposit furnished along with the tender. Apart from the initial security deposit made as above, retention money shall be deducted from progressive running bills @ 8% of the gross value of each running bill until the total security deposit, i.e., the initial security deposit plus the retention money equals to **(Total Security Deposit EMD (2.0 %) + FSD 5.0 %)**

The above Security Deposit will be refunded after satisfactory completion of Defect liability period of one year from the date of Issue of virtual completion certificate by the Employer.

11. **VENDOR TO PROVIDE EVERYTHING NECESSARY**

The Vendor shall provide everything necessary for the proper execution of the work 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 provide that the same can reasonably be inferred there from and if the Vendor finds any discrepancies therein he shall immediately and in writing , refer the same to the Employer / Architects whose decision shall be final and binding.

12. **TIME OF COMPLETION, EXTENSION OF TIME & PROGRESS CHART**

The Vendor shall be allowed admittance to the site on the ‘Date of Commencement’ stated in the Appendix, and he shall thereupon and forthwith begin the works and shall regularly proceed with to complete the same (except such painting or other decorative work as the Architect may desire to delay). On or before the “Day of Completion “stated in the Appendix subject nevertheless the provision for the extension of time hereinafter contained.

If in the opinion of the Architect the works be delayed:

- a. By force major or
- b. By reason of any exceptionally inclement weather or
- c. By reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners of public authorities arising, than through the Vendor's won default or
- d. By the works or delays of the Vendors tradesmen engaged or nominated by the Employer / Architect and not referred in the Schedule of Quantities and / or specifications or
- e. By reason of civil, commotion, local combination of workmen or strike or lock-out effecting any of the buildings traders or
- f. By reason of the Architect's instructions as per clause 2, or
- g. In consequence of the Vendor not having in due time, necessary instructions from the Architect for which he shall have specifically applied in writing ahead of time, giving the Architect reasonable time to prepare such instructions, the Architects shall make a fair and reasonable extension of time for completion of the Contract works In case of such strike or lock-out, the Vendor shall as soon as possible, give written notice thereof the Architect, but the Vendor shall nevertheless constantly use his endeavors to prevent delay and shall do all they may reasonably be required, to the satisfaction of the Architect to proceed with the work. The Vendor on starting the works shall furnish to the Employer / Architect a PERT / CPM Programme for carrying out the work stage in the stipulated time for the approval of Architect / Employer and follow strictly the approved time schedule incorporating charges if any, to ensure the completion of the work in stipulated time. A graph or chart on individual work shall be maintained showing the proportionate progress of work week by week by Architect a weekly progress report stating the number of skilled and un skilled laborers employed on the work, working hours done, place, type, and quantity of work done during the period.

The Vendor must inform the Architect within 10 days in advance of all drawings and detailed required by him from time to time. The Vendor shall adhere to the approved program and arrange for the materials and labour etc accordingly.

Despite repeated instructions, if the Vendor fails to show proportionate progress of the work, the Architect / Employer may take suitable action and deemed fit without prejudice to any terms and conditions of the contract

13. LIQUIDATED DAMAGES

Should the work be not completed to the satisfaction of the Employer / Architects within the stipulated period, the Vendor shall be bound to pay to the Employer a sum calculated as given below by way of liquidated damages and not as penalty during which the work remains un-commenced or unfinished after the expiry of the completion date.

If the Vendor fails to complete the work by the Scheduled date of completion or within any sanctioned extended time, he will have to pay liquidated damages at 1% of contract amount for each week beyond the date that the work remains incomplete subject to maximum of 10% of the contract value (without extra items).

14. NOTICE AND PATENTS OF APPROPRIATE AUTHORITY AND OWNERS

The Vendor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-Laws of any authorities, and / or any water, lighting and other companies, and / or authorities with whose systems the structures were proposed to have connection and shall before making any variations from the drawings or specifications that may be associated to so conform, give the Employer / Architects written notices specifying the variations proposed to be made and reasons for making them and apply for instruction thereon. The Employer / Architects written notices specifying the variations proposed to be made and reasons for making them and apply for instruction thereon. The Employer / Architects on receipt of such intimation shall give a decision within a reasonable time.

The Vendor/s shall arrange to give all notices required for by the said Acts, Regulations or Bye-laws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer.

The Vendor shall indemnify the Employer against all claims in respect of patent rights, royalties, damages to buildings, roads or members of public in course of execution of work and shall defend all actions arising from such claims and shall keep the Employer saved harmless and indemnified in all respects from such actions, costs and expenses.

16. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS.

All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workmanlike manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars, and instructions as may from time to time be given by the Employer / Architects during the execution of the work and to his entire satisfaction.

All mandatory tests shall be carried out as per CPWD specifications. If required by the Employer / Architects, the Vendor shall have to carry out tests on materials and workmanship in approved materials testing laboratories or as prescribed by the Employer / Architects at his own cost to prove that the materials etc., under test conform to the relevant I.S Standards or as specified in the specifications. The necessary charges for preparation of mould (in case of concrete cube), transporting, testing etc., shall have to be borne by the Vendor. No extra payment on this account should in any case be entertained.

All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through normal channels and must include charges for import duties, sales tax, octroi and other charges and must be the best of their kind available and the Vendors must be entirely responsible for the proper and efficient carrying out of the work. The work must be done in the best workmanlike manner. **Samples of all materials to be used must be submitted to the Employer / Architects when so directed by the Engineer / Architects and written approval from Employer / Architects must be obtained prior to placement of order.**

Any damage (during constructions) to any part of the work for any reasons due to rain, storm or neglect of Vendor shall be rectified by the Vendor in an approved manner at no extra cost.

Should the work be suspended by reason of rain, strike, lockouts or any other cause, the Vendor shall take all precautions necessary for the protection of work and at his own expenses shall make good any damage arising from any of these causes.

The Vendor shall cover up and protect from damage, from any cause, all new work and supply all temporary doors, protection to windows, and any other requisite protection for the execution of the work whether by himself or special tradesmen or sub-Vendor and any damage caused must be made good by the Vendor at his own expenses.

17. REMOVAL OF IMPROPER WORK

The Employer shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Employer / Architects are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions. In case the Vendor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Employer / Architects shall be borne by the Vendor or may be deducted from any money due to or that may become due to the Vendor. No certificate, which may be given by the Architects, shall relieve the Vendor from his liability in respect of unsound work or bad materials.

18. SITE SUPERVISION

The Architect may appoint a Site supervisor or clerk of works who shall be representative of the Architect. The duties of the supervisor representative are to watch and supervise the works and to test any materials to be used of workmanship employed in connection with the works. He shall have no authority either to relieve the Vendor of any of his duties or obligations under the Contract, or except those expressly provided hereunder, to order any work involving delay or any extra payment by the Employer or any variation of or in the works.

The Vendor shall afford the Employer's representative every facility and assistance for examining the works and materials and checking the measuring time and materials. Neither the Employer's representative nor any assistant to the Architect shall have power to revoke, alter enlarge or relax the requirements of this Contract, or to Sanction any day-work, additions, alterations, deviations or omissions unless such an authority may be specially conferred by a written order of the Architect / Employer.

The Employer's Representative shall have to give notice to the Vendor or his foremen about the non-approval of any work or materials and such works shall be suspended or the use of such material should be discontinued until the decision of the Architect is obtained, the work will from time to time be examined by the Architect or the Employer's representative but such examinations shall not in any way exonerate the Vendor from the obligation to remedy defects which may be found to exist at any stage of the work or after the same is completed. Subject to the limitations of this cause, the Vendor shall take instruction from the Architect / Employer.

19. VENDOR'S EMPLOYEES

The Vendor shall employ technically qualified and competent supervisors for the work who shall be available (by turn) throughout the working hours to receive and comply with instructions of the Employer / Architects. The Vendor shall engage at least one experienced Engineer as site-in-charge for execution of the work. The Vendor shall employ in connection with the work persons having the appropriate skill or ability to perform their job efficiently.

The Vendor shall employ local labourers on the work as far as possible. No labourer below the age of sixteen years and who is not an Indian National shall be employed on the work.

Any labourer supplied by the Vendor to be engaged on the work on day work basis either wholly or partly under the direct order or control of the Employer or his representative shall be deemed to be a person employed by the Vendor.

The Vendor shall comply with the provisions of all labour legislation including the requirements of

- a) The payment of Wages Act.
- b) Employer's Liability Act.
- c) Workmen's Compensation Act.
- d) Contract Labour (Regulation & Abolition) Act. 1970 and Central Rules 1971
- e) Apprentices Act 1961
- f) Minimum Wages Act
- g) Any other Act or enactment relating thereto and rules framed there under from time to time.

The Vendor shall keep the Employer saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the Employer in connection with any claim that may be made by any workmen.

The Vendor shall comply at his own cost with the order for requirement of any Health Officer of the State or any local authority or of the Employer regarding the maintenance of proper environmental sanitation of the area where the Vendor's labourers are housed or accommodated, for the prevention of small pox, cholera, plague, typhoid, malaria and other contagious diseases. The Vendor shall provide, maintain and keep in good sanitary condition adequate sanitary accommodation and provide facilities for pure drinking water at all times for the use of men engaged on the works and shall remove and clear away the same on completion of the works. Adequate precautions shall be taken by the Vendor to prevent nuisance of any kind on the works or the lands adjoining the same.

The Vendor shall arrange to provide first aid treatment to the labourers engaged on the works. He shall within 24 hours of the occurrence of any accident at or about the site or in connection with execution of the works report such accident to the Employer and also to the competent Authority where such report is required by law.

20. DISMISSAL OF WORKMEN

The Vendor shall on the request of the Employer immediately dismiss from works any person employed thereon by him, who in the opinion of the Employer be unsuitable or incompetent or who may misconduct him. Such discharges shall not be the basis of any claim for compensation or damages against the Employer or any of their officer or employee.

21. ASSIGNMENT

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

22. DAMAGE TO PERSONS AND PROPERTY INSURANCE ETC

The Vendor shall be responsible for all injury to the work or workmen to persons, animals or things and for all damages to the structural and / or decorative part of property which may arise from the operations or neglect of himself or of any sub-Vendor or of any of his or a sub-Vendor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include inter-alia, any damage to buildings whether immediately adjacent or otherwise, and any damage to roads, streets, foot paths or ways as well as damages caused to the buildings and the works forming the subject of this contract by rain, wind or other inclemency of the weather. The Vendor shall indemnify the Employer and hold harmless in respect of all and any expenses arising from any such injury or damages to the person or property as aforesaid and also in respect of any claim made in respect of injury of damage under any acts on compensation or damage consequent upon such claim.

The Vendor shall reinstate all damages of every sort mentioned in this clause so as to deliver the whole of the contract works complete and perfect in every respect and

so as to make good or otherwise satisfy all claims for damages to the property of third parties.

The Vendor shall affect the insurance necessary and indemnify the Employer entirely from all responsibility in this respect. The insurance must be placed with a company approved by the Employer and must be effected jointly in the name of the Employer and Vendor and the policy lodged with the Employer. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be affected from the very initial stage. The Vendor shall also be responsible for anything, which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim for damages from any sums due to or to become due to the Vendor.

23. MEASUREMENTS

Before taking any measurement of any work the Site Engineer or a subordinate deputed by him shall give reasonable notice to the Vendor. If the Vendor fails to attend at the measurements after such notice or fails to countersign or to record the difference within a week from the date of measurement in the manner required by Site Engineer or by the subordinate deputed by him as the case may be his final and binding on the Vendor and Vendor shall have no right to dispute the same.

24. PAYMENTS

All bills shall be prepared by the Vendor in the form prescribed by the Employer's / Architects. Normally one interim bill shall be prepared each month subject to minimum value for interim certificate as stated in these documents. The bills in proper form must be duly accompanied by detailed measurements in support of the quantities of work done and must show deductions for all previous payments, retention money, etc.

The work done will be physically recorded by the architect/representative in the presence of the Vendor which shall be check measured by the Engineer in charge (APGVB) and duly signed by the Vendor or his representative.

The bill prepared by the Architect will be scrutinized by the department and will be recommended to the competent Authority for Payment duly deducting at source retention Money, IT and other taxes as applicable, as mentioned in the clauses.

If the Employer has supplied any materials or goods to the Vendor, the cost of any such materials or goods will be progressively deducted from the amount due to the Vendor in accordance with the quantities consumed in the work.

All the interim payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the requiring of bad, unsound, and imperfect or unskilled

work to be removal and taken away and reconstructed, or re-erected or be considered as and admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim, nor shall, it conclude, determine or affect in any way the power of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or affect the contract. The final bill shall be submitted by the Vendor within one week of the date fixed for completion of the work or of the date of certificate of completion furnished by the Architect and payment shall be made within one week from the date of receipt of Architect's certificate.

Final Payment

The final bill shall be accompanied by a certificate of completion from the Architects. Payments of final bill shall be made after scrutiny by the department which will be recommended to the competent authority for payment after deduction of Retention Money as specified in clause 11 of these conditions, which shall be refunded after the completion of the Defects Liability Period after receiving the Architect's certificate that the Vendor has rectified all defects to the satisfaction of the Architects. The acceptance of the payment of the final bill by the Vendor would indicate that he has no further claim in respect of the work executed.

25. VARIATION / DEVIATION

The tender rates shall be fixed and applicable for any increase or decrease in the tendered quantities. The Architect can increase or decrease any quantities to any extend or even delete particular item as per the site requirements and the Vendor shall not be paid anything extra on this account. Nothing extra will be paid by the APSFC on account of omission / deletion of items or decrease in the quantity of items. The APSFC shall not entertain any claim whatsoever from the Vendor on this account.

The price of all additional items / non-tendered items will be worked out on the basis of rates quoted for similar items in the contract wherever existing. If similar items are not available, the rates for such items will be derived as per standard method of rate analysis based on prevalent fair price of labour, material and other components as required with 15% towards Vendor's profit and overheads.

26. SUBSTITUTION

Should be Vendor desire to substitute any materials and workmanship, he/they must obtain the approval of the Employer / Architects in writing for any such substitution well in advance. Materials designated in this specification indefinitely by such term as "Equal" or "Other approved" etc. specific approval of the Employer / Architect has to be obtained in writing.

27. CLEARING SITE ON COMPLETION

On completion of the works the Vendor shall clear away and remove from the site all constructional plant/machines, surplus materials, rubbish and temporary works

of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Employer/Architects.

28. DEFECTS AFTER COMPLETION

The Vendor shall make good at his own cost and to the satisfaction of the Employer all defects, shrinkage, settlements or other faults, which may appear within 12 months after completion of the work. In the default, the Employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the Vendor and such damages, loss and expenses shall be recoverable from him by the Employer or may be deducted by the employer, in lieu of such amending and making good by the Vendor, deduct from any money due to the Vendor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient recover that balance from the Vendor from the amount retained under clause no.11 together with any expenses the Employer may have incurred in connection therewith.

29. CONCEALED WORK

The Vendor shall give due notice to the Employer/Architects whenever any work is to be buried in the earth/concealment/low roofing, concrete or in the bodies of walls or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before such burial, in default whereof the same shall, at the opinion of the Employer/ Architect be either opened up for measurement at the Vendor's expenses or no payment may be made for such materials. Should any dispute or differences arise after the execution of any work as to measurements etc., or other matters which cannot be conveniently tested or checked, the notes of the Employer / Architects shall be accepted as correct and binding on the Vendor.

30. IDLE LABOUR

Whatever the reasons may be no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

31. SUSPENSION OF WORKS

If the Vendor except on account of any legal restraint upon the Employer preventing the continuance of the work or in the opinion of the Employer shall neglect or fail to proceed with due diligence in the performance of his part of the contract or if he shall more than once make default, the Employer shall have the power to give notice in writing to the Vendor requiring the work to be proceeded within a reasonable manner and with reasonable dispatch, such notice purport to be a notice under this clause.

After such notice shall have been given, the Vendor shall not be at liberty to remove from the site of the works or from any ground contiguous thereto any plant or materials to subsist from the date of such notice being given until the notice shall

have been compiled with. If the Vendor fails to start the work within seven days after such notice has been given to proceed with the works as therein prescribed, the employer may proceed as provided in clause 43. (Termination of Contract by Employer)

32. TERMINATION OF CONTRACT BY EMPLOYER

If the Vendor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number of amount of his creditors or shall enter into a Deed or arrangement with his creditors, or if the Official Assignee in insolvency, or the Receiver of the Vendor in insolvency, shall repudiate the contract, or if a receiver of the Vendor's firm appointed by the court shall be unable within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that he is able to carry out and fulfill the contract, and if so required by the employer to give reasonable security therefore, or if the Vendor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the Vendor, or shall assign, charge or encumber this contract or any payments due or which may become due to Vendor, there under, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the Vendor within three clear days after the notice shall have been given to the Vendor in manner hereinafter mentioned requiring the Vendor to observe or perform the same or shall use improper materials of workmanship in carrying on the works, or shall in the opinion of the employer not exercise such due diligence and make such progress as would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the employer after three clear das notice requiring the Vendor so to do shall have been given to the Vendor as hereinafter mentioned or shall abandon the contract, then and in any of the said cases, the Bank may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby effecting the powers of the employer of the obligations and liabilities of the Vendor the whole of which shall continue in force as fully as if the contract, had not been so determine and as if the works subsequently executed by or on behalf of the Vendor (without thereby creating any trust in favour of the Vendor) further the employer or his agent, or servants, may enter upon and take possession of the work and all plants tools scaffolding sheds machinery, steam, and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell 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 works or by employing any other Vendors or other persons or person to complete the works, and the Vendor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other Vendors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be the employer shall give notice in writing to the Vendor to remove his surplus materials and plants and should the Vendor to remove his surplus materials after receipt by him the employer may sell the same by Public Auction and shall give credit to the Vendor for the amount so realized. Any expenses or losses incurred by the Vendor for the amount so realized. Any expenses

or losses incurred by the employer in getting the amount payable to the Vendor by way of selling his tools and plants or due on account of work carried out by the Vendor prior to engaging other Vendors or against the Security Deposit.

33. ARBITRATION

All disputed or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof this contract or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination foreclosure or breach of the contract (other than those in respect of which the decision of any person is by the contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the Employer hereinafter mentioned be referred for adjudication to a sole Arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole Arbitrator referred to above, the Employer will send within thirty days of receipt of the notice, to the Vendor a panel of three names of persons who shall be presently unconnected with the organization for which the work is executed from the following categories of Arbitrators”:-

- a. Retired High Court/Supreme Court judge who have experienced in handling Arbitration Cases.
- b. Member of Council of Arbitrators
- c. Fellow of the Institution of Engineers
- d. Eminent Retired Chief Engineer from State/Central PWD/Public sector undertaking of good reputation and integrity
- e. Fellow of Indian Institute of Architects

The Vendor shall on receipt of the names as aforesaid, select any one of the person's name to be appointed as a sole Arbitrator and communicate his name to the Employer within thirty days of receipt of the names. The Employer shall thereupon without any delay appoint the said person as the Sole Arbitrator. If the Vendor fails to communicate such selection as provided above within the period specified, the Competent Authority should make the selection and appoint the selected person as the Sole Arbitrator.

If the Employer fails to send to the Vendor the panel of three names as aforesaid within the period specified, the Vendor shall send to the Employer a panel of three names of persons who shall all be unconnected with either party. The Employer shall on receipt appoint him as the Sole Arbitrator. If the Employer fails to select the person and appoint him as the Sole Arbitrator within 30days of receipt of the panel and inform the Vendor accordingly, the Vendor shall be entitled to appoint one of the persons from panel as the Sole Arbitrator and communicate his name to the Employer.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another Sole Arbitrator shall be appointed as aforesaid.

The work under the Contract shall, however, continue during the arbitration proceedings and no payment due or payable to the Vendor shall be withheld on account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date he issued notice to both the parties fixing date of the first hearing.

The Arbitrator may from time to time, with the consent of the parties, enlarge the time for making and publishing the award.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his Sole discretion.

The award of the Arbitrator shall be final and binding on the both the parties.

Subject to aforesaid the provisions to the Arbitration Act. 1992 or any statutory modification or re-enactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

The Employer and the Vendor hereby also agree that arbitration under clause shall be condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

SPECIAL CONDITIONS OF CONTRACT

1. DRAWINGS AND SPECIFICATIONS

The works shall be carried out to the entire satisfaction of the EMPLOYER and the Architect, in accordance with the signed drawings and specifications and such further drawings and details as may be provided by the Architect, and in accordance with such written instructions, directions and explanations as may from time to time be given by the Architect, whose decision as to the sufficiency and quality of the work and materials shall be final and binding upon all parties. If the work shown on any such further drawings or work that may be necessary to comply with any such instructions directions or explanations, be in the opinion of the Vendor extraction that comprised in or reasonably to be inferred from the contract he shall before proceedings with such work, give notice in writing to this effect to Architect, and in the event of the Architects agree to the same in writing the Vendor shall be entitled to an allowance in respect of such extra work as on authorized extra. If the Architect and the Vendor fail to agree as to whether or to there is an extra, then, if the Architect decided that the Vendor is to carry out the said work, the Vendor shall do so, and the question whether or not there is any extra, and it so the amount thereof, shall failing agreement, be settled by Arbitration as hereinafter provided, but such references shall in no way delay the fulfillment of this contract.

No drawings shall be taken as in itself on order for variation unless, in addition to the Architect's signature, it bears express words stating that is intended to be such an order or bears a remark '**VALID FOR EXECUTION**'. No claim for payment for extra work shall be allowed unless the said work shall have been executed under the provisions of clause 6 (Authorities notices, patent right and royalties) or by the Authorities of directions in drawing of the Architect as herein mentioned.

One complete set of the signed drawings and specification and scheduled of quantities shall be furnished by the Architect to the Vendor. The Architect shall furnish within such time, as he may consider reasonable, one copy of any additional drawing, which is his opinion, may be necessary for the execution of any part of work. Such copies shall be kept at the works, and the architect or his representatives shall, at all reasonable time have access to the same and shall be return to the Architect by the Vendor before the issue of the Final certificate. The contract shall remain in the custody of the Architect, and shall be produced by him at his office as and when required by the Employer or by the Vendor.

2. INSPECTION OF DRAWINGS

Before filling in the tender, the Vendor will have to check up all drawings and schedule of quantities, and will have to get an immediate clarification from the Architect on any point that he feels is vague or uncertain. No claim of damages or compensation will be entertained on this account.

3. EXECUTION OF WORK (PRICES TO INCLUDE)

The whole of the work is described in the contract a (including the schedule of Quantities, the specifications and all drawing pertaining there to) and as advised by

Architect from time to time is to be carried out and completed in all its parts to the entire satisfaction of the Architect. Any minor details of the work which may not have been definitely referred to in this contract, but which are usual in practice and essential to the work, are deemed to be included in this contract. Rates quoted in the Schedule shall be inclusive of all freights, taxes, such as octroi, sales tax, Royalties, duties, excise, turnover tax, sales tax on works contract, etc., as well as transportation, so as to execute the Vendor as per the rules and regulations of Local Bodies, State Government and Government of India.

The rates quoted in the tender should include all charges for:

- a. Labor, maintenance fixing, carrying, cleaning, making good, hauling, watering etc
- b. Plant, machinery, scaffolding, framework, English ladders, ropes, nails, spikes, tools, materials and workmanship protection from weather, shuttering, temporary supports, platform and maintenance of the same.
- c. Covering for the walling and other works during inclement weather or striking or whenever directed as necessary.

4. SITE SUPERVISION

The Vendor shall appoint at his own cost competent and adequate number of qualified Engineers at site, for (1) joint measurements and preparations of bills, (2) for testing materials at site and outside laboratory, (3) for other general supervision. Their appointment shall be approved by the Employer / Architect. The site Engineers shall not be removed from the site without the written consent of the Employer / Architect.

5. DIMENSIONS

Figures, dimensions, are in all case to be accepted preferences to scaled sizes. Large-scale details take precedence over small-scale drawings. In case of discrepancy, the Vendor is to ask for a clarification before proceeding with the work. Accordingly if any work is executed without prior clarification it is liable to be rejected and shall not be paid for.

6. PROGRAMME OF WORKS

Vendor shall have to prepare and submit the CPM/PERT charges for Architect's approval immediately after issue of the work order and display the approved charts in the site office. He shall also make bar charts indicating individual items and during the progress of work he shall update the bar charts showing the proportionate progress of work every week.

He shall strictly adhere to the programme of works as per CPM/PERT charts showing the proportionate progress of work.

7. PROCUREMENT OF MATERIALS

Vendor shall procure all the materials for the work from the open market. Time is the essence of the contract. **Acceptance of the completion date by the Vendor shall mean that he has taken into consideration the availability of all material of approved make and quality in sufficient quantities at site to enable him to complete the entire work in the stipulated period.**

Vendor will get sample of all materials approved by the Employer / Architect before placing order / purchase / procurement. They shall conform to I.S. codes and or tender specification as applicable.

For all materials the Vendor shall quote for the best quality of the materials of best make / source or supply and it will be got approved by Employer / Architect before procurement.

In case sufficient quantities of approved quality materials from approved source are not available in time, Vendor may have to procure the same for neighboring area with longer leads as required and directed at no extra cost. The material will be, however as per relevant I.S code as and wherever applicable.

8. UNFIXED MATERIALS

When any materials intended for the works shall have been placed at site by the Contract, such material shall not be removed there from (except for the purposes of being used on the works) without the written authority of the Employer / Architect and when the Vendor shall have received payment in respect of any certificate in which the architect shall have stated that he has taken in to account to value of such unfixed materials on the works such material shall become the property of the Employer and the Vendor shall be liable for any loss or damage to any such materials.

9. CUSTODY AND SECURITY OF MATERIALS

The Vendors shall be responsible for the custody and security of all materials and equipment at site and he will provide full time watchman / watchmen to lock after his materials, stores equipments etc.

10. RATES

Vendor shall quote all the **rates both in figures and in words** and any alterations shall have to be initiated by the Vendor. Rates quoted by the Vendor for the same item in different schedules will be same and in case different rates are quoted, the lowest will be taken as correct and the schedule corrected accordingly. In case of discrepancy between figures and the words the rate quoted in words shall be taken as correct one. All quoted rates should be inclusive of sales tax on works contract. Rates quoted by the Vendor shall hold good for all the work carried out to any height and depth as shown in detailed drawings and as required and directed by the Architect.

Rates quoted by the Vendor shall also hold good for any small work at any place at site.

11. PRICES FOR EXTRAS ETC., ASCERTAINMENT OF

Should it be found after the completion of the works from measurements taken (in accordance with the previous paragraph) that any of the quantities or amounts of the work thus ascertained are less or greater than the amounts specified for the works in the priced schedule of quantities and / or tender or that any variations, is made, the valuation of such quantities, amounts or variations, unless previously or otherwise agreed upon, shall be made accordance with the following rules

- a. The net rates or prices in the original tender shall determine the valuation of the extra work, where extra work is of a similar character and executed under similar conditions the work priced therein.
- b. The net prices the original tender shall determine the value of the item omitted, provided if omissions vary the conditions under which any remaining items of work are carried out, the prices for the same shall be valued under thereof
- c. Where extra works are not of similar character and / or executed under similar conditions as aforesaid or where the omissions vary, the conditions under which any remaining items of work are carried out of it the amount of any omission or additions relative to the amount of the whole of the contract works or to be any part thereof shall be such that in the opinion of the Architects the net rate or price contained in the priced schedule of quantities or tender or for any item of work involves loss or expenses beyond that reasonably contemplated by the Vendor or is by reason of such omission or addition rendered unreasonable or inapplicable, the Architect shall fix in consultation with the Employer such other rate or prices as in the circumstances he shall think reasonable and proper, which shall be final and binding on the Vendor.
- d. Where extra work cannot be properly measured or valued, the Vendor shall be allowed any work prices at the net rates stated in the tender or the priced schedule of 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 (and if required by the Architect, the workmen's name) and materials employed at or before the end of the week following that in which the work has been executed.

The measurements and valuations in respect of the extra items of contract shall be completed within the 'period of final measurement' or within three months of the completion of the contract works as defined under clause no 16 (Certificate of Virtual Completion)

12. EXTRA ITEMS RATES

The work or extra items shall be started only after the approval of extra items rates by client / Architect. Rates for additional or extra items of construction work, which can be derived from the contract item rates and are not covered in the contract, shall be calculated on the basis of actual cost plus 10 % for profit.

13. ARCHITECT'S DRAWINGS AND INSTRUCTIONS

A set of major drawings along with the contract documents shall be provided to the Vendor. For any clarifications or further drawings are required by the contract, during or before the start of construction work, the Vendor shall inform the Architects in writing to provide the same. Working details will be given to the Vendor from time to time during the progress of work as and when required. In case of other drawing is required by the Vendor he will give a minimum ten days notice to the Employer / Architect.

14. FAILURE BY VENDOR COMPLY WITH ARCHITECT INSTRUCTIONS

If the Vendor after receipt of written notice from the architect requiring compliance with such further drawings and / or Architects instruction, fails within seven days to comply with the same, the Employer / Architect may employ and pay other persons to execute any such work whatsoever as may be necessary to give effect thereto and all cost incurred in connection there with shall be recoverable from the Vendors by the Employer on a Certificate by the Architect as a debit or may be deducted by him from any money due or which become due to the Vendors.

15. INFORMATION TO BE SUPPLIED BY THE VENDOR

- a. The Vendor shall furnish the Employer / Architect the following:
- b. Detailed industrial statistics regarding the labor employed by him etc
- c. The Power of Attorney, name and signature of his authorized representative who will be in charge for the execution of work
- d. The list of technically qualified persons employed by him for the execution of this work.
- e. The total quantity and quality of materials used for the works.
- f. The list of plant and machinery employed for this work.

16. ARCHITECT'S DELAY IN PROGRESS

The Architect may delay the progress of the works in case of rains or otherwise, without vitiating the contract and grant such extension of time with the approval of the employer for the completion of the contract as he may think proper and sufficient in consequences of such delay, and the Vendor, shall not make any claim for compensation or damage in relation thereto.

17. CERTIFICATE AND PAYMENTS

The Vendor shall be paid by the Employer from time to time, by installments under interim Certificates to be issued by the Architect to the Vendor on account of the works executed by the Vendor when in the opinion of the Architect, work to the approximate value, named in the Appendix as 'Value of work for interim Certificates' (or less at the reasonable discretion of the Employer / Architect) has been executed in accordance with this contract, subject however, to a retention of the percentage of such value need in the Appendix hereto mentioned as 'retention percentage for interim Certificates' until the total amount retained shall reach the sum 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 in the interim Certificate, such amount as he may consider proper on account materials delivered upon the site by the Vendor for use in the work. And when the works have been virtually completed and the Architect shall have certified in writing that they have been completed, the Vendor shall be paid in accordance with the Certificate issued by the Architect the sum of money named in the Appendix after satisfying themselves as 'Installment after Virtual Completion 'being a part of the said 'Total Retention Money'.

The Vendor shall be entitled to the payment of the final balance in accordance with the final Certificate to be issued in writing by the Architect at the expiration of the period refer to as ' The Defect Liability Period' in the Appendix hereto, from the date of Virtual Completion or as soon as after the expiration of such period as the work shall have been finally completed and all defect made good according to the true intent and meaning hereof, whichever shall happen, provided always that the issue by the Architect of any certificate during the progress of the works or after the completion shall not relieve the Contract from his liabilities in cases of fraud , dishonesty or fraudulent concealment relating to the works of materials or any matter dealt within the certificate, and in case of all defects and insufficiency in the works or materials which reasonable examination world have disclosed. No certificate of the Architect shall of itself be conclusive evidence that any works and materials to which it relates are in accordance with the contract.

The Architect shall have power to withhold any certificate if the works or any part thereof are not being carried out to his / employer satisfaction.

The Architect may by any Certificate make any correction in any previous Certificate, which shall have been issued by him.

Payment upon the Architect's Certificates shall be made within a period named in the Appendix as 'Period of honoring of Certificates' after such Certificates have been delivered to Employer.

18. DELAYED PAYMENTS

Any amounts payable by the Employer to the Vendor in pursuance of any Certificate given by the Architect hereunder shall, if not paid within the 'Period of honoring of Certificate' no interest paid by the Employer.

19. FORCE MAJEURE

Neither party shall be held responsible by the other for breach of any condition of this agreement attributable to any 'Act of God' Act of state, lockout of control or any other reason, beyond the control of the parties and any breach of clauses arising from much force majeure conditions as aforesaid shall not be regarded as a breach of the provision of this Agreement.

20. INCOME-TAX

Income Tax shall be deducted at source by the client from the Vendor' interim and final bill payments as per Statutory Regulations.

21. SITE MEETINGS

A senior representative of the Vendor shall attend weekly meetings at works site and in addition meetings as and when arranged by Architect to discuss the progress of the work and sort out problems, if any and ensure that the work is completed in the stipulated time.

22. ACTION WHERE THERE IS NO SPECIFICATION

In case of any class of work for which is there is no specification mentioned, the same will be carried out in accordance with the Indian Standards Specifications subject to the approval of the Architect.

23. REPORTING OF ACCIDENT TO

The Vendor shall be responsible for the safety of persons employed by him on the works and shall reports serious accidents to any of them whenever and wherever occurring on the works to employer who shall make every arrangement to render all possible assistance. This shall be without prejudice to the responsibility of the Vendor under the Insurance Clause of the general conditions. Vendor shall take all precaution detailed in the safety code attached separately.

24. TYPOGRAPHICAL CLERICAL ERRORS

The Employer / Architect clarification regarding partially omitted particulars of typographical or Clericals errors shall be final and binding on the Vendors.

25. WORK PERFORMED AT VENDOR'S RISK

The Vendor shall take all precautions necessary and shall be responsible for the safety of the work and shall maintain all lights, goods, signs, temporary passages or other protection necessary for the purpose. All works shall be done by the Vendor's risk and if any loss or damage shall result from fire or from others cause, the Vendor shall promptly repaid or replace such loss or damage free from all expenses to the employer.

The Vendor shall be responsible for any loss or damage to materials, tools or other articles used held for use in connection with the work. The work shall be carried on to completion without interferences with the operations of existing machinery or equipment, if any.

26. SPECIAL CONDITIONS OF CONTRACT

In the event of any discrepancy with clauses mentioned anywhere else in the tender with the clauses mentioned within special conditions of contract, the clauses mentioned within the special conditions of contract shall supersede those mentioned elsewhere.

FORM OF AGREEMENT

ARTICLES of AGREEMENT made this _____ day of _____ year 2019 between the **Andhra Pradesh Grameena Vikas Bank**, Head office, Warangal (Hereinafter referred to as the “Employer / Owner” which expression shall, unless excluded by or repugnant to the context, includes its successors and assigns) of the ONE PART and _____ of _____ (Hereinafter referred to as “Vendor” unless excluded by or repugnant to the context, includes its successors and assigns) of the OTHER PART. WHEREAS the Employer intends to carry out **PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK’S OWN BUILDING AT NALGONDA, TELANGANA STATE.** (Herein referred to as “Project”).

AND WHEREAS the Employer in order to effectively carry out the said works has engaged **M/s ABHIKRAM-S Hyderabad** (Hereinafter referred to as “Architects”) to prepare plans, drawings and specifications describing the works to be executed by the Vendors for the project, to open tenders received at the office of the Employer, to scrutinize and recommend to the Employer the name(s) of the Vendor(s) from whom tenders were received and recommended to the Employer for the issue of work order to the Vendor.

AND WHEREAS for the purpose of the said project, the Employer invited sealed tenders from experienced, resourceful and bonafide Vendors vide his **Notice Inviting Tender (No. _____ dated _____/____/2021).**

WHEREAS the Vendor submitted his Tender Documents containing General Notes, General Conditions of the Contract, Technical Specifications and Schedule of Quantities etc. for the works, prepared with the assistance of Consultants (Hereinafter collectively referred to as the “said conditions”), duly signed on each page as a token of his acceptance of the same, along with requisite Earnest Money Deposit of Rs. _____ (Copy enclosed Vide Annexure-1).

AND WHEREAS out of the Tenders received, the Tender of the Vendor was found to be most suitable for the project.

AND WHEREAS the Architect has accordingly recommended to the employer for issue of work order to the Vendor subject to his furnishing the requisite Security Deposit (Copy enclosed Vide Annexure-II).

AND WHEREAS the employer has issued the Work Order (No. _____ dated. _____) to the Vendor.

AND WHEREAS the Vendor has accepted the aforesaid Work Order vide his letter of acceptance NO. _____ dt. _____ (Copy enclosed Vide Annexure III) and has also deposited with the Employer a sum of Rs. _____ which with the Earnest Money of RS. _____ forms the requisite Security Deposit @ 1 % of the accepted Tender Value of Rs. _____.

AND WHEREAS the Employer has caused the plans, drawings, specifications, schedule of quantities etc. relating to the project at the work site at to be issued to the Vendor.

NOW, therefore, it is hereby agreed to and between the parties as follows:

1) Contract documents

The following documents shall constitute the Contract Documents.

- I. This Article of Agreement.
 - II. Tender submitted by the Vendor included the N.I.T and Tender Documents (Vide Annexure-I).
 - III. All correspondence between the Bank/Architects and the Vendor from the date of issue of N.I.T and the date of issue of work order.
 - IV. Work order No. _____ dt. _____ (Vide Annexure-II).
- 2) In consideration of the payments to be made to the Vendor as hereinafter provided the Vendor shall upon and subject to the said conditions, execute and complete the contracted works shown upon the said drawings etc. and such further detailed drawings as may be furnished to the Vendor by the said Owner/Employer through the Architects and described in the said Specifications and the said Schedule of Quantities.
 - 3) Notwithstanding what are stated in the N.I.T conditions of Tendering, Conditions of Contract of herein before stated by the Employer through the Architects, reserves itself the right of altering the drawings and the nature of the work and addition to or omitting any items of work or of having portions of same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.
 - 4) As mentioned in Article 1 above, the said conditions shall be read and be treated as forming part of this agreement and parties hereto will respectively be bound thereby and to abide by and submit themselves to the conditions and stipulations and perform the same on their parts to be respectively observed and preferred.
 - 5) Any dispute arising under this agreement shall be referred to the Arbitration in a manner specified in the General Conditions of the Contract and all legal disputes shall be limited within the territorial jurisdiction of the Hyderabad thereto. The decision of the arbitration shall be final and binding on both the parties.

IN WITNESS WHEREOF THE PARTIES there to present have hereunder set and subscribed their hands, the day, month and year first above written.

Signed and delivered for and on behalf of **Andhra Pradesh Grameena Vikas Bank**
Shri. _____

Authorized official
In the presence of –

1. (Name and Address) _____

2. (Name and Address) _____

Signed and delivered for and on behalf of The Vendor M/s _____ by
Shri _____ his surly authorized official in the presence of –

1. (Name and Address) _____

2. (Name and Address) _____

SCHEDULE OF APPROXIMATE QUANTITIES AND RATE

1. The quantities given herein are those upon which the lump sum cost of the work is based. They are subjected to alterations omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of the work to be done. The unit rate noted below are those governing payment of extras or deductions for omissions, according to the conditions of the contract as set forth in the preliminary specifications of the Telangana state. Detailed standard specifications and other conditions or specifications of this contract.
2. It is to be expressly understood that the measured work is to be taken net (notwithstanding) any custom or practice to the contrary according to the actual quantities when in place and finished according to the drawings or as may be directed from time to time by the Architects, and the cost calculated by measurements or weight, at the respective prices, without any additional charge for any necessary or contingent works connected there with. The rates quoted are for work in site and complete in every respects.
3. If any operation of work, which is specified in the respective items mentioned in the schedule of quantities, is not executed by the Vendor then proportionately the rate quoted in the schedule shall be re-fixed.

SAFETY CODE

1.1 Scaffolds:

- 1.1.1 Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying material as well, suitable footholds and hand holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1 (1/4 horizontal and 1 vertical)
- 1.1.2 Scaffolding or staging more than 4m. above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached bolted, braced and otherwise secured at least 3 feet high above the floor or platform of such scaffoldings or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 1.1.3 Working platform, gangways, and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6m above the ground level on the floor level. They shall be closely boarded, should have adequate width and should be suitably fastened, as described in (ii) above.
- 1.1.4 Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1m. Wherever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.
- 1.1.5 Safe means of access shall be provided to all working platforms and the working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 m. in length while the width between side rail in rung ladder width shall in no case be less than 290mm. for ladder upto and including 3m in length. For longer ladders this width should be increased at least 20mm. for each additional meter or length.
- 1.1.6 A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer-in-charge obtained prior to construction.
- 1.1.7 All personnel of the Vendor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
- 1.1.8 Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY VENDORS

1.1 Application:

These rules shall apply to the Vendor for **PROPOSED SUPPLY & INSTALLATION OF 62.5KVA & 20 KVA DIESEL GENERATORS FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA STATE.**

1.1.1 "Work Place" means a place at which, at an average 50 or more workers are employed in connection with construction work.

1.1.2 "Large Work Place" means a place at which, at an average 500 or more workers are employed in connection with construction work.

1.2 First Aid:

1.2.1 At every work place, there shall be maintained in a readily accessible place first aid appliance including an adequate supply of sterilized dressings and sterilized cotton wool. The appliances shall be kept in good order and, in large work place they shall be placed under the charge of a responsible person who shall be readily available during the working hours.

1.2.2 At large work places, where hospital facilities are not available within easy distance of the work. First Aid post shall be established and be run by a trained compounder.

1.2.3 Where large work places are remote from regular hospitals, indoor ward shall be provided with one bed for every 250 employee.

1.2.4 Where large work places are situated in cities, in towns or in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals, suitable transport shall be provided to facilitate removal of urgent cases to the hospitals. At other work places, some conveyance facilities, such as a car, shall be kept readily available to take injured person or persons suddenly taken seriously ill to the nearest hospital.

1.3 Drinking Water:

1.3.1 In every work place, there shall be provided and maintained at suitable places easily accessible to labour, a sufficient supply of cold water fit for drinking.

1.3.2 Where drinking water is obtained from an intermittent public water supply, each work place be provided with storage where such drinking water shall be stored.

1.3.3 Every water supply storage shall be at a distance of not less than 15m from any latrine, drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells

shall be entirely closed in and be provided with a trap door which shall be dust and water proof.

- 1.3.4 A reliable pump shall be fitted to each covered well the trap-door shall be kept locked and opened only for cleaning or inspection which shall be done at least once in a month.

1.4 Washing and Bathing place:

1.4.1 Adequate washing and bathing places shall be provided, separately for men and women.

1.4.2 Such places shall be kept in clean and drained condition.

1.5 Scale of Accommodation in Latrines and Urinals:

There shall be provided within the precincts of every work place latrines and urinals in an accessible place, and the accommodation, separately for each for each of them, shall not be less than the following scale:

	No. of Seats
1.5.1 Where the number of persons does not exceeds 50,	2
1.5.2 Where the number of persons exceeds 50 but does not exceed 100	3
1.5.3 For every additional 100	3 per 100

1.6 Latrines and Urinals for Women:

If women are employed separate latrine and urinals, screened from those of men and marked in the vernacular in conspicuous letter. "For Women Only" shall be provided on the scale laid in 6.0. Those for men shall be similarly marked "For Men Only". A poster showing the figure of a man and a woman shall also be exhibited at the entrance of latrines for each sex. There shall be adequate supply of water close to the urinals and latrines laid in 6.0 Those for men shall be similarly marked "For Men Only". A poster showing the figure of a man and a woman shall also be exhibited at the entrance of latrines for each sex. There shall be adequate supply of water close to the urinals and latrines.

1.7 Latrines and Urinals:

Except in work places provided with water flushed latrines connected with a water borne sewerage system, all latrines shall be provided with receptacles on dry earth system which shall be cleaned at least four times daily and at least twice during working hours and kept in a strictly sanitary condition. The receptacles shall be tarred inside and outside at least once a year.

1.8 Construction of Latrines:

The inside walls shall be constructed of masonry or some suitable heat-resisting non-absorbent material and shall be cement-washed inside and outside at least once a year. The dates of cement washing shall be noted in a register maintained for the purpose and kept available for inspection. Latrines will not be of a standard lower than borne-hole system and should have thatched roofs.

1.9 Disposal of Excreta:

Unless otherwise arranged for by the local sanitary authority arrangements for proper disposal of excreta shall be made by septic tank or leach pit duly approved by the Engineer and in conformity with the requirements of local public health authorities.

1.10 Provision of Shelters during rest:

At every work place there shall be provided, free of cost, two suitable sheds one for meals and the other for rest separately for men and women for the use of labour. The height of the shelter shall not be less than 11 feet from the floor-level to the lowest part of the roof. The sheds should be roofed with at least thatch and mud flooring will be provided with a dwarf wall around not less than 750mm. Sheds should be kept clean and the space should be on the basis of at least 0.50 Square meters per head.

1.11 Crèches:

1.11.1 At every work place, at which 50 or more women workers are ordinarily employed there shall be provided two huts for the use of children under the age of 6 year belonging to such women. One hut shall be used for infant's games and play and the other as their bedroom. The huts shall not be constructed on a lower standard than the following:

1.11.1.1 Thatched roofs:

1.11.1.2 Mud floor and walls:

1.11.1.3 Planks - spread over the mud floor and covering matting.

The huts shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the place clean. There shall be two ayahs in attendance. Sanitary utensils shall be provided to the satisfaction of the Health Officer of the area concerned. The use of the hut shall be restricted to children their attendants and mothers of the children.

1.11.2 Where the number of women workers is more than 25 but less than 50, the Vendor shall provide at least one hut and one ayah to look after the children of women workers.

1.11.3 The size of creche or creches shall vary according to the number of women workers.

1.11.4 The creches or creche shall be properly maintained and necessary equipment like toys, etc. shall be provided.

1.12 Canteen:

A cooked food canteen on a moderate scale shall be provided for the benefit of workers where ever it is considered expedient.

1.12.1 The above rule shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contract.

TECHNICAL SPECIFICATIONS - DG SETS

1 SCOPE

1.1 This specification defines the minimum requirements for the supply of self excited Internal Combustion Engine driven emergency generator complete with Heat Exchanger, Acoustic enclosure, Air cooled fluid cooler, automatic voltage regulator, control panel, generator breaker, and other accessories as specified in the Material Requisition.

1.2 Unless otherwise specified the emergency generator shall be supplied complete with

- a) Brush less excitation system complete with AVR.
- b) AMF panel cum local control panel including control cubicle and associated auxiliary devices, generator breaker, battery and charger.
- c) Any other part / accessories not specifically mentioned above but considered necessary for safe and reliable operation.

2 CODES AND STANDARDS

Unless they are in variance with the clause of this specification the Internal Combustion Engine driven generator system and its components shall comply with the latest edition of the applicable standards listed below. For imported electrical equipment corresponding local codes and standards shall apply.

IS - 2253 Designation for type of construction and mounting arrangement of rotating electrical machines.

IS - 4691 Degree of protection provided by enclosures of Rotating Electrical Machinery

IS - 4722 Rotating electrical machines.

IS - 4728 Terminal marking and direction of rotation for rotating electrical machinery.

IS - 4889 Methods of determination of efficiency of rotating electrical machine.

IS - 6362 Designation of Methods of Cooling of Rotating Electrical Machines.

IS - 7132 Guide for testing synchronous machines.

IS - 7306 Methods of determining synchronous machines quantities from tests.

IS - 7816 Guide for testing of insulation of rotating machines.

IS - 12065 Permissible limits of noise level for rotating electrical machines.

IS - 12075 Mechanical vibration of rotating electrical machines with shaft heights 56 mm and higher - measurements, evaluation and limits of vibration severity.

IS - 12802 Temperature rise measurement of rotating electrical machines.

IS - 13364 AC Generators driven by reciprocating internal combustion engines.

IS - 13947 Low voltage Switchgear and Control gear : General Rules.

IEC - 34 Rotating Electrical Machines.

The equipment shall also conform to the provisions of Indian Electricity rules and other statutory requirements currently in force.

In case of any contradiction between the standards listed above and this specification, the requirement laid down in this specification shall prevail.

3. PERFORMANCE REQUIREMENTS

3.1 Site Conditions

Generator shall be suitable for operating satisfactorily in humid atmosphere. Ambient conditions shall be suitable for Hyderabad. Generator rating indicated in the Schedule shall be the net output of the set at specified site conditions after accounting for all auxiliaries for the prime mover and Generator.

3.2 Voltage Regulation

The voltage regulation of the machine shall be within $\pm 2\%$ of the nominal voltage under following conditions:

- between no load and nominal load with p.f. of 0.8 lag to unity.
- with the machine cold or warm.
- at a speed drop of approximately 3% of the nominal speed.

3.4 Voltage setting range

The generator terminal voltage shall be adjustable with a continuously variable potentiometer. The adjustment range shall be $\pm 10\%$ of the nominal voltage.

3.5 Unbalanced Load

The generator shall be capable of withstanding without injury the effects of a continuous current unbalance corresponding to a negative - phase sequence current of 8% of the rated current for cylindrical rotor machines and 10% for salient pole machines provided none of the phase current exceeds rated current.

3.6 Frequency Limits

The generator shall be suitable for continuous operation at rated load for a frequency variation of $\pm 3\%$ of rated value. In addition the vendor shall furnish the short time under-frequency operating limits.

3.7 Over Current Requirement

The generator shall be capable of withstanding without injury stator current of

1.5 p.u for 30 seconds and 1.1 p.u. for one hour.

3.8 Short circuit conditions

The generator shall be capable of withstanding with out damage, three phase or a line to line or line to earth or two line to earth short circuit for a period of 3 seconds when operating at rated speed and rated load and with an excitation corresponding to 5 % over voltage.

3.9 Parallel Operation

The Generator sets shall be suitable for parallel operation amongst themselves, or with other generating sets at operating voltage and under load conditions up to rated value.

3.10 Excitation support system

Excitation system shall be provided with short-circuit support equipment (series compounding) to maintain three times the rated current for three seconds in case of short-circuit to ensure proper fault clearance in outgoing feeders.

4 DESIGN AND CONSTRUCTION

4.1 The generator design shall meet the ambient conditions of Nalgonda.

4.2 The generator shall be mounted on a common base frame together with prime mover unless otherwise agreed. The generator shall be provided with necessary lifting hooks and two earth terminals on opposite sides for connection to main earth grid.

4.3 The generator winding shall be of class 'H' insulation with temperature limitation for class 'B'. The windings and overhangs shall be braced to withstand the short circuit forces.

4.4 The stator winding shall be star connected and all windings shall be brought out to six insulated terminals in a terminal box. The stator neutral side connection shall be brought in neutral cubicle having protection CT s. The terminal boxes for the line terminals and neutral shall have sufficient space for the terminals of cable size specified in Schedule. The terminal boxes shall be complete with lugs and Single compression cable glands. Current transformers shall be as specified in Schedule

4.5 All parts and accessories shall be suitable to withstand stresses due to over speed/overload/short circuit conditions specified.

4.5 Bearings shall be antifriction, shielded and pre lubricated. Grease in the bearing enclosure shall provide additional lubrication to bearing as well as provide sealing against dust and moisture.

4.6 The generator shall be air cooled unless otherwise specified. Generator enclosure shall be as specified in data sheet.

4.7 The direction of rotation of the rotor of the machine shall be compatible with that of the prime mover. A clear indication of the direction of rotation shall be given on either end of the machine.

- 4.8 Field winding shall have class 'H' insulation with temperature limitations for Class-B. The field winding shall be capable of operating at a field voltage of 125 % of field voltage at rated load for at least one minute starting from stabilized temperatures at rated conditions.
- 4.9 All cabling on the generator set skid shall be in GI perforated cable trays/ conduits. All cables shall be identified close to their termination point. Single compression type cable glands shall be used for cable termination.
- 4.10 A rating plate of stainless steel shall be fixed on the generator frame and shall give the information as per IS : 4722.

5 EXCITATION SYSTEM

The generator shall be provided with brushless type solid state self-excitation system with automatic voltage regulator. The excitation system shall include the automatic voltage regulator, AC exciter and rotary rectifier.

All components shall be mounted considering the effects of the centrifugal forces.

Automatic solid state voltage regulator shall be provided with the following features as a minimum.

- Short circuit protection.
- Manual voltage control
- Voltage build up circuitry
- Test mode

6.1.1 Automatic mains failure scheme

This shall be effective in Auto position of Auto / Manual selector switch located in local control panel. The generator set shall normally be at rest. Upon failure of normal supply, an impulse shall be extended from purchaser's equipment. Upon receipt of this impulse, generator set shall start automatically and rated speed and voltage shall be built up. All accessories required for starting and completion of various sequence of operation for the above purpose shall be provided as part of DG set. Immediately after this, voltage monitoring relay located in control panel shall extend an impulse for closing generator breaker . The relay shall also be controllable from PLC and hence necessary control wiring shall be brought out

6.1.2 Manual start in service mode

This shall be effective in manual position of Auto / Manual switch and service position of service / test selector switch located in control panel. The scheme of operation shall be same as of auto mode as per clause 6.1.1 above except that starting impulse shall be extended manually through the push button either in local control panel or purchaser's control panel.

6.1.3 Test mode

This shall be effective in test position of service / test selector switch. The scheme of operation shall be same as that of manual start in service mode as clause 6.1.2 above except that the closing impulse for generator breaker shall not be extended automatically.

6.2 Shut-down

Unless otherwise specified, stopping the generator set in all cases for a normal shut down shall only be done manually by means of push button in either local control panel or purchaser's remote panel.

6.3 Starting time

The total time from the receipt of the starting impulse for the generator set till reaches rated speed and generator reaches rated voltage shall not be more than 30 seconds. If this time is exceeded, an annunciation in the local control panel shall be provided with a facility for repeat annunciation in purchaser's panel.

7 GENERATOR CONTROL PANEL

7.1 The local generator control panel for the generator set shall comprise of the following unless otherwise specified in the attached data sheet.

- a) TPN MCCB for full load.
- b) AMF relay (AVK SEGC make/BE21/ eqvt)
- c) Metering equipments and Indicating instruments such as Digital Voltmeter, Digital Ammeter, KW Meter and Digital KWH Meter,
- d) Control gear for generator set auxiliaries
- e) **Battery charger suitable to charge 2 sets of Batteries.**

Any other accessory required to make the generator set operational as a package shall be included in scope of supply. If required the generator control panel shall be split into various functional sections viz. metering, control, and regulation etc.

The generator breaker shall also be part of the control panel unless otherwise specified. The breaker rating shall be as specified in the Schedule/SLD. This breaker shall serve the purpose of local isolation. The breaker shall be in draw out execution. In case of 415 V generator, breaker shall have four poles for isolation of phases and neutral.

All motor starters for DG set auxiliaries if required shall be DOL type in fixed execution with compartmentalized construction having sheet steel enclosed vertical panels along with horizontal and vertical bus bars. All bus bars shall be PVC sleeved. Each panel shall have a separate cable alley.

Unless otherwise specified, the DC control supply required for AMF/local control panel and for any other purpose shall be met by DC system consisting of battery and battery charger of suitable capacity to be supplied by the generator set manufacturer.

The battery shall be Sealed Maintenance Free lead acid, high discharge automotive type suitable for engine starting duty and conforming to relevant IS. The battery shall be placed on battery stands made of steel with suitable PVC coating. The battery capacity shall be adequate for three consecutive starts of the engine under cold engine condition, without recharging, with additional 10 % spare capacity.

The battery charger shall have 3phase full wave controlled rectifier bridge with their protective devices. The charger shall be of solid state design, constant voltage type with current limiting feature suitable for automatic and manual, normal and quick charging of batteries. The output voltage shall be stabilized to $\pm 1\%$ for mains variation of $\pm 10\%$ and load variation of 0 to 100% . Taps shall be provided on the primary side of the transformer at $\pm 5\%$ and $\pm 10\%$ rated voltage. A suitable filter circuit shall be provided at the rectifier output to obtain a smooth Dc output voltage. The maximum ripple content in the charger output voltage shall be lower than the safe value recommended by battery manufacturer and in any case shall not exceed 5% with battery disconnected. The charger shall be sized for boost charging the battery within 10 -14 hours.

The charger shall have auto as well as manual control facility through a lockable selector switch. In auto mode, the charger shall automatically control the battery charging current/voltage to ensure optimum boost charging of the battery. After completion of boost charging, the charger shall switch to float charging mode without any manual intervention.

In the manual mode, it shall be possible to charge the battery at any desired current, which is safe for the battery. Fine control of the output voltage/current shall be possible. In both auto and manual modes the battery charging current shall be limited to a safe value by means of adjustable potentiometer control. A backup timer of 0-24 hours range shall be provided for switching the charger from boost to float mode after the set time, under any mode of operation.

The charger shall be complete with all interconnections within the panel. All connections shall be made using 660 V grade PVC insulated wires/ cables with adequately sized copper conductors for power connections and copper conductor of size 1.5 mm size for control connections.

All main and control transformers shall be class B insulated. All semi conductor devices shall be natural air cooled with absolute case temperature limited to 75 °C at highest load and ambient temperature. PCB shall be tropicalized to render them immune to dust, moisture and fungal growth. Auto / Manual selector switch. ON/OFF switch for incoming power supply, float/boost selector switch, potentiometer for coarse and fine control of output voltage and backup timer shall be provided on the front of the panel in addition to AC incoming voltmeter and ammeter with selector switch and DC output voltmeter and ammeter. Indication lamps for AC power on (3 lamps) charger in float, charger in boost, charge failure shall also be provided.

7.2 The generator control panel shall be free standing, metal enclosed fabricated with cold rolled sheet steel of 2mm thickness, dust and vermin proof type with a hinged door and having a degree of protection IP 51 unless otherwise specified. Power and control equipment shall be segregated inside the panel as far as practicable. The maximum height shall not be more than 2275mm. All hardware shall be corrosion resistant and bolts, nuts and washers shall be made of galvanized, zinc passivated or cadmium plated high quality steel. Unless otherwise specified the panel shall be suitable for bottom cable entry. The Panel shall be powder coated with Siemens grey after seven-tank treatment for sheet

Necessary removable type un-drilled gland plate, single compression cable glands and cable lugs shall be provided with the panel.

All auxiliary devices for control, indication, measurement and alarm such as Push button, control / selector switches, indicating lamps, metering instruments, annunciations etc. shall be mounted on the front door of the panel. Adequate number of potential free contacts shall be provided in the control panel for any remote control, monitoring of the generator set.

7.3 All switches shall be load-break, heavy duty type. All fuses shall be non deteriorating HRC cartridge pressure fitted, link type. The contactors for auxiliary motor starters shall be of air-break type having AC-3 duty rating. Thermal overload relays shall be three element, positive acting, ambient temperature compensated type with adjustable setting range and built in protection feature against single phasing. All indicating instruments shall be moving iron, flush mounting type and of 72 mm x 72 mm. square pattern. As an option, vendor may offer digital meters. All control/select or switches shall be rotary back connected type having a cam-operated contact mechanism with knob type handle 'Stop' push buttons shall having a cam-operated contact mechanism with knob type handle. 'Stop' push buttons shall be stay put type.

7.4 Wiring for power, control and signaling circuits shall be done with PVC insulated copper conductors having 660 V insulation grade. Minimum size of control wires shall be 1.5 mm Clamp type terminals shall be acceptable for wires up to 10 mm size and for conductors larger than 10 mm bolted type terminals with crimping lugs shall be provided. A minimum of 10 % spare terminals shall be provided on each terminal block.

7.5 50 x 6 mm Aluminum or equivalent copper earth bus shall be provided in the panel for connection to the main earth grid. All non current carrying metallic parts of the mounted equipments shall be earthed. Doors and movable parts shall be earthed using flexible copper connections.

7.6 Engraved nameplates shall be provided for all devices mounted on the front of the panel. Nameplate or polyester adhesive stickers shall be provided for each equipment mounted inside the panel.

8 Diesel Engine :

Diesel Engine shall be suitable for generating set application developing suitable BHP at 1500 RPM, powered by multi cylinder. The engine shall be of heavy duty type suitable for cold starting and equipped with a minimum of the following accessories.

- a) Fly wheel to suit flexible couplings with guard
- b) Air cleaner
- c) Heat Exchanger with Air Cooled fluid cooler, Pipe lines, Water pumps
- d) Fan with guard
- e) Water pump-centrifugal type, engine mounted
- f) Fuel pump
- g) Fuel filter
- h) Governor-Electronic type
- i) Fuel injection equipment
- j) Exhaust silencer (Residential Silencer)
- k) Electric starting equipment comprising of starting motor on 24V DC supply
- l) Lubricant oil cooler
- m) Lubricant oil pump-gear type, engine mounted
- n) Lubricant oil filter
- o) Turbo charger (exhaust gas driven)
- p) Battery charging generator with voltage regulator-24V DC
- q) 24V Battery of suitable AH capacity

8.1.1 Instrument panel shall consist of :

- a) Starting switch with key
- b) Lubricating oil temperature gauge
- c) Lubricating oil pressure gauge
- d) Water temperature gauge
- e) Battery charging ammeter
- f) Circuit breaker
- g) Safety control for low lubricating oil pressure
- h) Safety control for high water temperature
- I) Hour meter (mech.) and RPM indicator

The Instruments a to d & I can be mounted on the Engine itself

8.2 Base frame:

The engine alternator shall be perfectly aligned and assembled on a sturdily fabricated adequately machined base frame, made out of high quality MS channels. The base frame should be provided with lifting facilities and pre-drilled foundation holes suitable for installation either on concrete foundation or with anti-vibration mountings.

8.3 Fuel tank:

Fuel tank of standard capacity (as per manufacturers standards) for each set with inlet-outlet pipe connections, filling cap, drain plug level indicator and floor mounting pedestal along with hand operated fuel transfer pump and suitable hose shall be provided. The Fuel Tanks of both the sets shall be interconnected at the bottom with an equalizer of 25mm dia MS line and provided with Gate valves near both Tanks.

9. ACCOUSTIC ENCLOSURE:

The Enclosure shall be completely as per CPCB norms and generally consist of a self supporting frame work built with tubular section and plain or corrugated metallic sheets and its base shall be built of standard channel section, M.C 100x50, to support the frame work on its own weight. The base shall be placed on the ground around the DG set without any foundation or anchor to the ground

The panels, framework, doors and all other surfaces are finished with a rust preventing primer. The outer surface shall be painted matt finish paint.

The enclosure shall be completely weather proof and is suitable for both indoor and outdoor application. The DG set Control panel, Fuel tanks shall be mounted within the enclosure

Performance: The average Noise level at 1mtr from the outer surface of the enclosure shall be maintained as per CPCB norms The Sound level shall be measured at site using a calibrated Noise level measuring device, with all noise making loads switched off, in the presence of Empanelled Engineer.

The Temperature rise inside the enclosure shall not be more than 5Deg.C. Over ambient temperature. The enclosure shall be supplied by the Agencies with approval from ARI Pune.

10 TESTS AND INSPECTION

10.1 The purchaser or his authorized Representative may visit the works during manufacture of equipment to assess the progress of work as well as to ascertain that only quality raw materials are used for the same. He shall be given all assistance to carry out the inspection.

10.2 Detailed test procedures along with the facilities available at vendor's works shall be furnished by the vendor.

10.3 Minimum Acceptance tests :

On completion and before handing over of the work, the following tests shall be carried out by the Vendor to the entire satisfaction of the Engineer-in-Charge.

A) Phase-I Test :

- i) Insulation resistance test - Sectional and overall
- ii) Continuity resistance test-sectional and overall
- iii) Earth resistance test
- iv) All instruments and relays shall be tested under normal operating conditions.
- v) Visual examination to ensure that the plant equipment and accessories are provided and the finish and general appearance of the work are as per contract specification.
- vi) A) **NO LOAD** test for a period of 3 hours continuously to see that the engine, alternator and other accessories are functioning normally.

The duration of the test may be increased if necessary and as directed by the authorized representative of the accepting officer.

B) **Phase-II Test :**

On completion of the Phase-I tests to the entire satisfaction of the authorized representative of the accepting officer, a full load test will be carried out for 12 hours continuously and for a period of three days by directly loading or loading artificially.

The overall efficiency of the set at 1/4 load, 1/2 load and full load shall be worked out and compared with the figures given by the tenderer in his tender documents. If there is any reduction in the efficiency of the plant, the Vendor shall make suitable adjustments, actions etc. to bring up the efficiency to the specified limit.

All necessary arrangements for testing under artificial load conditions, such as cables, electrodes etc. shall be provided by the Vendor and the charge for the same is deemed to be included in the rate quoted in the schedule. However the engine should complete with the first filling of lubricating oil, to be supplied by the Vendor.

C) Tests on Alternator:

- i) Routine tests for alternator as per IS : 4722.
- ii) Phase sequence test

11. PAINTING, PACKING AND DESPATCH

11.1 All metal surfaces shall be thoroughly cleaned of scale, rust, and grease etc. prior to painting, cleaned surfaces shall be given two coats of primer and prepared for final painting . Final finish shall be free from all sorts of blemishes.

11.2 The equipment shall be shipped to site suitably packed to prevent any damage during transit. Each package shall have labels to show purchaser's name, purchase order and equipment no. suitable lifting lugs etc. Shall be provided and lifting points shall be clearly marked on the package. Packing shall be suitable for storage at site for a minimum period of 6 months.

PROFORMA

SCHEDULE OF PARTICULARS AND GUARANTEE ON DIESEL OIL ENGINE DRIVEN GENERATING SETS

Item No	Description	Particulars
OIL ENGINE		
1.	Maker's Name	
2.	Maker's Type	
3.	No. and arrangements of cylinders	
	a) No. of cylinders	
	b) Arrangement of cylinders	
4.	Method of starting	
5.	Rated Speed (RPM)	
6.	Time required for starting from cold	
7.	Type of Governor	
8.	Guaranteed limits of governing	
	a) Permanent variations	
	i) Full load thrown off	
	ii) Full load put on	
9.	Total speed variation which can be effected by hand speed regulating gear	
10.	Specification of lubricating oil recommended	
11.	Specification of fuel oil recommended	
12.	Rated output at normal temperature and pressure conditions as defined in BS: 649 latest in the case of Diesel Engine i.e. at 1000 M above mean sea level and ambient temperature above 45degrees C	

13. Overloaded for one hour at standard operating conditions
14. Guaranteed output at site (continuous running for 12 hours under the worst atmospheric conditions specified in the schedule of requirements)
15. Over load for one hour at site
16. Guaranteed fuel oil consumption
 - (A) under standard temperature and pressure (S.T.P)
 - i) at full rated output (liters/metric horse power/hour
 - ii) at 3/4 rated output ,,
 - iii) at 1/2 rated output ,,
 - (B) at site conditions
 - i) at full rated output ,,
 - ii) at 3/4 rated output ,,
 - iii) at 1/2 rated output ,,
17. Guaranteed lubricating oil consumption at full rated output Liters
18. Mechanical efficiency %
19. Thermal efficiency %
20. Details of standard accessories offered with the engine
21. Safety protections
 - a) Whether over speed trip provided or not
 - b) Whether low lubrication oil trip provided or not
22. Direction of rotation when looking from engine towards the driven machine
30. Whether the engine is 2 stroke or 4 stroke
24. Method of aspiration (Eg. natural, turbo, or super charged etc.)

25. Method of cooling
ALTERNATOR
26. Maker's Name
27. Maker's type no.
28. Rated continuous maximum rating
in KVA to BS 2613-57
29. Rated continuous output in
KW at 0.8 PF
30. Rated speed (RPM)
31. Rated voltage
32. Number of phases
33. Overload capacity
 - a) 10 percent for Hrs
 - b) 50 percent for Hrs
34. Temperature rise of the windings
measured by thermometer after
continuous run at full rated
output, rated voltage, frequency
and PF and with surrounding air
temperature at 45degrees C
(Amb. temperature)
35. a) Efficiency at 0.8 PF at full load
b) Efficiency at 0.8 PF at 3/4 load
c) Efficiency at 0.8 PF at 1/2 load
36. Inherent voltage regulation (increase
in voltage from full load to no load
with constant speed and excitation)
37. Are damper windings fitted on poles ?
38. Radial clearance between stator and
rotor (air gap)
39. Peripheral speed of the rotor
40. Critical speed of the rotor

41. Method of lubrication
42. Direction of rotation
43. Excitation voltage
44. Alternator excitation current at full load on
 - i) Unity PF
 - ii) 0.8 PF
45. Whether DG set is suitable for Rectifiers/Inverter and computer type loads ?
46. What is the maximum motor load to which the DG set can be used with DOL Starter?

Note : Before use of any of the above brands for the Project, Prior Written permission shall be taken from client/Employer. The Client shall have choice to select any of the approved brands.

LIST OF APPROVED MAKES

S No.	Name of the Equipment	Approved Makes
1.	Diesel Engine	Cummins/Caterpillar/Krilsokar/Greaves cotton/Mahindra/Ashok Leyland /Eicher/ Crompton Greaves
2.	Alternator	Cummins/Caterpillar/Krilsokar/Greaves cotton/Mahindra/Ashok Leyland /Eicher/ Crompton Greaves
3.	ACB	Schneider Electric Master Pact / Siemens /ABB
4.	HRC Fuses	Siemens /Schneider Electric
5.	Selector Switches	Siemens / BCH /Salzer / Kaycee/Schneider
6.	Digital Panel Meters	Conzerv / AE / Schneider
7.	Indicating (LED type)	Siemens / Altos/Schneider
8.	Connectors/ Terminal Blocks	Elmex / Connectwell / Essen
9.	PVC Insulated Copper Wires	Finolex / RR Kabel /
10.	Aluminum conductor Cables	Ralison/Finolex//CCI/
10.	Cable Glands	Comet / Jainsons / Braco
11.	Cable Sockets/ Lugs	Dowells / Jainsons / Braco
12.	Lead Acid Battery	Exide / Amco / HBL
13.	Acoustic Enclosure	As per CPCB Norms. Certification to be produced.

ABSTRACT TO GENERAL CONDITIONS OF CONTRACT		
1	Earnest money Deposit	Rs.10,000.00
2	Initial Security Deposit	2.0 % of Quoted value including EMD.
3	Date of commencement	3 days from the date of receipt of work order
4	Period of Completion	6 Weeks from date of commencement
5	Defects Liability Period	12 months
7	Agreed Liquidated Damages	0.5% of tender amount per week subject to a maximum of 7% of contract value
8	Period of Final Measurement	30 days
9	Value of work for the issue of Interim Certificate	Minimum Rs 6.00 Lakhs
10	Retention money from each interim bill	8%
11	Total retention money including Earnest Money and initial security deposit	As per Clause 11, of General Conditions
12	Architects certificate of payment	15 days after submission of interim bills by the Vendor
13	Period of honoring payment certificate	7 working days from date of Architect's certificate of payment for interim bills and 45 working days for final certificate
14	Delayed Payments	No interest will be paid on this account
15	Estimated value	Rs. 10,00,000.00 Plus GST as applicable

SIGNATURE OF THE VENDOR WITH DATE

WITNESS:

DATE:

DECLARATION

I/We have inspected the site of works and have made me / us fully acquainted with the local conditions in and around the sites of works. I/We hereby declare that I/We have gone through the conditions laid down in the Notice Inviting Tender, Conditions of Contract, Technical Specifications and understood the same and on the basis of the same I/We quoted our rates in the Schedule of Quantities attached with the tender documents.

I/We shall also uniformly maintain such progress as may be directed by the Employer / Architect to ensure completion of same within the target date as mentioned in the tender document.

Witness:

Signature of Tenderer

Address _____

Date: _____/_____/2021

NOTE: ALL TECHNICAL CLARIFICATIONS IF ANY SHOULD FORM PART OF TECHNICAL BID. TECHNICAL CLARIFICATIONS AFTER OPENING OF THE TENDERS WILL NOT BE ENTERTAINED AT ANY COST

BILL OF QUANTITY FOR SUPPLY & INSTALLATION OF ONE 62.5 KVA & ONE 20 KVA DIESEL GENERATOR FOR APGVBANK'S OWN BUILDING AT NALGONDA, TELANGANA.

S NO	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
1	Supply, Installation, Testing and commissioning of following 415V, 3phase 50HZ, 0.8 PF, 1500 RPM, 4 wire air cooled DG set with an Acoustic enclosure of sound level <75db From distance One mtr @ 100% Load, ambient temperature 45 Deg capable of taking 10% over load for one hour after 12 Hours of continuous operation and as per central pollution control board norms/ Specification. The local Control panel with 125A, 4-POLE, 25KA MCCB (for 62.5KVA DG set) & 63A, 4-POLE , 16KA MCCB (for 20KVA DG set). The Diesel Engine shall be complete with necessary control and safety devices as per IS/ BS specifications. The Engine shall be suitable for continuous operation of Generator duty, inclusive of Fly wheel, flexible coupling, air cleaner, corrosion resistor, Radiator, fan with guard, Fuel pump, fuel filter, Electronic governor, starting system with separate Battery charger with 2nos 24V sealed Maintenance Free Batteries, Voltage regulator, Instrument panel with RPM Indicator, Exhaust silencer (residential), protections against Low Lub. Oil pressure, high water temperature and fuel lines from Fuel tank to DG set, battery stand, anti vibration pads and first filling of lubricating oil and fuel oil for set. The Alternator shall have brushless, continuous duty, self excited and self regulated through AVR with class H insulation. The DG Set shall be supplied along with standard Acoustic enclosure with sliding doors. The control Panel shall be suitable to operate from PLC in Main PCC for Auto operation and Interlocking arrangement. (NOTE: The DG sets shall confirm to the latest CPCB-II norms).				
a	62.5KVA	No	1		
b	20KVA	No	1		

S.NO	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2	Supply and Fixing of MS Exhaust Pipe of suitable size for following DG set cladded with 50mm thick Glass wool insulation covered with 24SWG Aluminum sheet with providing rain cap for following DG sets including suitable MS channels/ angles including cutting, welding and fabricating to the required size and painting with 2 coats of anti corrosive paint and 2 coats of synthetic enamel paint of Grey / Black colour complete as required. The pipe size shall be based on the back pressure.				
a	62.5KVA	Mtrs	30		
b	20KVA	Mtrs	30		
3	Supply, Installation, Testing and Commissioning of AMF panel for the DG Set shall have AUTO/ Manual/ OFF/ Test Selector switch, Indication lamps of Mains ON/ DG set ON, Energy meter with Voltage, Current, frequency and KWH reading.				
a	62.5 KVA	Nos	1		
b	20 KVA	Nos	1		
4	Supply, laying and commissioning of following size 1.1KV grade XLPE insulated armored aluminum/Copper conductor underground cable, in built up cable trench/already laid RCC Hume pipe or on cable tray with all installation materials. When the cable is to be laid in ground, the same shall be laid at a depth of 750mm below ground level including excavation and refilling of earth after cables are laid, providing protection with sand and bricks at sides and top and cable route markers at every 50mtr. interval and also at the turnings. The cable shall conform to IS 7098.				
a	3.5C X 50sq. mm Al. Arm. cable (XLPE) - (Between DG set to existing Auto Change Over inside the Main Panel)	Rmt	60		
b	3.5C X 25sq. mm Al. Arm. cable (XLPE) - (Between DG set to proposed Auto Change Over)	Rmt	60		

S.NO	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
c	7core 1.5sq.mm Copper Arm. Cable	Rmt	30		
d	14core 1.5sq.mm Copper Arm. Cable	Rmt	30		
e	3core 4.0sq.mm Copper Arm. Cable	Rmt	30		
f	3core 2.5sq.mm Copper Arm. Cable (For DG AMF Sensing)	Rmt	30		
5	Providing Double compression end terminations for the cable specified above with compression type steel gland, Bi-metallic lugs using crimping tool, Insulation tape, Identification tags etc., including end termination and Earthing of Gland.				
a	3.5C X 50sq. mm Al. Arm. cable (XLPE)	Nos	2		
b	3.5C X 25sq. mm Al. Arm. cable (XLPE)	Nos	4		
c	7core 1.5sq.mm Copper Arm. Cable	Nos	4		
d	14core 1.5sq.mm Copper Arm. Cable	Nos	4		
e	3core 4.0sq.mm Copper Arm. Cable	Nos	4		
f	3core 2.5sq.mm Copper Arm. Cable (For DG AMF Sensing)	Nos	4		
6	Earthing				
a	Providing G.I. Earth station, with 40mm dia. 2500mm long Galvanized iron pipe including construction of brick pedestal, providing meshed funnel, CI cover and other civil Engineering works, spreading a homogenous mixture of salt, charcoal around the pipe etc, completely as per IS 3043, 1987 or latest revision.(DG set Body - 1nos)	Nos	4		
b	Providing standard Copper Plate Earth station, with 600X600X3.15mm thick copper plate, 40mm dia, 2.5 mtr Class C, GI pipe with 25X3 copper strips runs on both sides up to top of the earth pit including excavation and construction of brick pedestal, providing meshed funnel, CI cover and other civil Engineering works, spreading a homogeneous mixture of salt charcoal around the plate etc, completely as per IS 3043, 1987 or latest revision. (DG Neutral)	Nos	4		

S.NO	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
7	Supply and laying of following size earth strips including excavation and refilling of earth when laid in ground and with all fixing accessories when laid inside the building including all necessary interconnections with earth station and Panels				
a	32X6mm GI strip	mtr	45		
b	25X6mm copper strip	mtr	80		
8	CIVIL WORKS : Construction of Civil foundations / Plinths for the following equipments (with cement, concrete & sand mixture of ratio 1:2:4) OR as per the drawings & details given by the equipment suppliers, civil repair works as required at site etc.				
a	Civil foundation for 62.5KVA DG set	Job	1		
b	Civil foundation for 20KVA DG set	Job	1		
9	Liaison works with all Statutory Agencies for obtaining all required permissions from EB/CEA/ Inspectorate/ CPCB or any other agency	1	lot		
	TOTAL (EXCLUDING GST)				
	DISCOUNT IF ANY				
	GRAND TOTAL (EXCLUDING GST)				

REMARKS:

PRICE QUOTED SHOULD BE EXCLUSIVE OF GST - BUT INCLUSIVE OF TRANSPORT, INSURANCE, INSTALLATION ETC.

Date : ___/___/2021

SIGNATURE WITH SEAL

SUPP