

**TENDER No. 3(R)/2022**



**KERALA STATE NIRMITHI KENDRA**

# **RE-TENDER**

Containing General Conditions of Contract and Schedule for the supply and Installation of 25 KVA III Phase KIRLOSKAR I GREEN DG Set Generator.

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*Name of Tenderer:*

*Address:*

*Signature of Tenderer:*

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**Last date and time for the receipt of Tender: 28.02.2022, 3 p.m.**

**FORM OF TENDER**

Sir,

I/We hereby tender to supply, under the annexed general conditions of contract, the whole of the articles referred to and described in the attached specification and schedule, or any portion thereof as may be decided by KESNIK at the rates quoted against each item. The articles will be delivered within the time and at the places specified in the schedule.

\* I/We am/are remitting/have separately remitted the required amount of Rs..... as earnest money being 1% of the quoted cost.

Yours faithfully,

(Signature).....

(Address) .....

.....

Date.....

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*\* To be scored in cases where no earnest money deposit is furnished.*

## GENERAL CONDITIONS

Sealed tenders are invited for the supply of the materials as specified in the schedule below/attached.

1. The tenders should be addressed to the officer mentioned below in a sealed cover with the tender no and name shown below duly superscribed on the cover.
2. The tenders should be in the prescribed form which can be obtained from the officer mentioned below on payment of the price which is also noted below. Duplicate copies of tender forms will also be issued at the rate specified below. The cost of tender form once paid will not be refunded. Tenders which are not in the prescribed form are liable to be rejected. The rates quoted should be only in Indian currency. Tenders in other currency are liable to be rejection.
3. Intending tenderers should send their tenders so as to reach the officer mentioned below, on due date and time (noted below). No tender received after the specified date and time will be accepted on any account. The rates will be considered firm for acceptance till the date mentioned below. Tenders not stipulating period of firmness and tenders with price variation clause and or "subject to prior sale" conditions are liable to be rejected.
4. (a) Every tenderer who has not registered his name with the Sores purchase Department, should send along with his tender, an earnest money 1% of the total cost of the articles tendered for (rounded to the nearest rupee) subject to a minimum of Rs.1500/-, if the amount calculated at 1% of the value of the articles tendered for falls below Rs.1500/- . The amount may be paid either by remittance into KESNIK, duly counter signed by the officer mentioned below, or by demand drafts (crossed) on the Nationalized Bank drawn in favour of the officer mentioned below. Cheques will not be accepted. The earnest money of the unsuccessful Tenderers will be returned as soon as possible after the tenders are settled; but that of the successful tenderers will be adjusted towards the security that will have to be deposited for the satisfactory fulfilment of the contract. No interest will be paid for the earnest money deposited.
- (b) Tenderers whose names are registered with Stores Purchase Department are generally exempted from furnishing earnest money for such articles or which they have registered their names. If the tender for stores other than those for which they have registered their names they will have to furnish earnest money as in the case of unregistered firms. Registered firms will have to quote invariably in every tender they submit the

registration number assigned to them by the Stores Purchase Department

- (c) (i) Micro, Small & Medium Scale Enterprises and Cottage Industries and Industrial Co-operative within the state which are certified as such by the Director of Industries and Commerce or by the Regional Joint Director of Industries and Commerce will be exempted from furnishing earnest money deposits in support of tenders submitted by them to Government Department. The Khadi and Village Industries Co-Operative Society and the Institution registered under the Literary, Scientific and Charitable Societies Act and Financed by the Kerala Khadi and Village Industries Board within the state which are certified as such by the Secretary, Kerala Khadi and Village Industries Board will be exempted from furnishing earnest money deposits in support of tenders submitted by them to Government Department. Government Institutions/State Public Sector Industries which manufacture and supply stores will also be exempted from furnishing earnest money for tenders submitted by them.
- (ii) Micro, Small & Medium Scale Enterprises and Cottage Industries and Industrial Co-operative within the state which have been registered as such with the Industries Department (Department Under the control of the Director of Industries and Commerce) on furnishing proof of such registration will be exempted from furnishing Security deposits against contracts for supply of stores manufactured by them provided that an officer of and above the rank of Deputy Director of Industries and Commerce having jurisdiction over the area also certifies to the soundness and reliability of the concerns to undertake the contracts. The Khadi and Village Industries Co-Operative Societies within the state which have been registered as such with the Kerala Khadi and Village Industries Board and the Institution registered under the Literary, Scientific and Charitable Societies Act and which are financed by the Board within the state on furnishing proof of such registration will be exempted from furnishing the security deposit against contract for supply of stores manufactured by them provided that the Secretary, Kerala Khadi and Village Industries Board also certifies to the soundness and reliability of the concerns to undertake the contracts. Government Institutions or any institutions listed in Annexure 16 which supplies stores, and Government of India undertaking will also be exempted from furnishing security in respect of contracts for supply of stores.

- (d) In the matter of purchase of stores by the State Government Department, Small Scale Industrial Units sponsored by the National Small Industries Corporation Ltd. New Delhi and in respect of which competency in certificate are issued by the Corporation will be exempted from payment of earnest money deposits and security deposits.
- (e) The Exemption stipulated in clauses (b), (c) & (d) above will not however, apply to tenders for the supply of raw materials or dietary articles or supply of stores on rate or running contract basis.
5. The tender will be opened on the appointed day and time in the office of the undersigned, in the presence of such of those tenderers or their nominees who may be present at that time.
  6. If any tenderer withdraws from his tender before the expiry of the period fixed for keeping the rates firms for acceptance, the earnest money, if any, deposited by him will be forfeited to KESNIK or such action taken against him as KESNIK think fit.
  7. Tenderers shall invariably specify in their tenders the delivery conditions including the time required for the supply of articles tendered for.
  8. (a) The tenderer shall clearly specify whether the articles offered bear Indian Standards Institution Certification Mark or not. In such case, they shall produce copies of Certification mark along with their tender in support of it.  
(b) Tenderers shall clearly specify whether the goods are offered from indigenous sources, from imported stocks in India or from foreign source to be imported under a licence. KESNIK reserve the right to reject offers for import of goods if the import Trade Control Policy in force at the time of award of the contract prohibits or restricts such imports.
  9. The final acceptance of the tenders rests entirely with the KESNIK who do not bind themselves to accept the lowest or any tender. But the tenderers on their part should be prepared to carry out such portion of the supplies included in their tenders as may be allotted to them.
  10. In the case of materials of technical nature the successful tenderer should be prepared to guarantee satisfactory performance for a definite period under a definite penalty.
  11. Communication of acceptance of the tender normally constitutes a concluded contract. Nevertheless the successful tenderer shall also execute an agreement for the due fulfilment of contract within the period to be specified in the letter of acceptance. The contractor shall have to pay all stamp duty lawyer's charges and other expenses incidental to the execution of the agreement. Failure to execute the agreement within the period specified will entail the penalties set out in para 12 below.
  12. (a) The successful tenderers shall, before signing the agreement and within the period specified in the letter of acceptance of his tender, deposit a sum equivalent to 5% of the value of the contract as security for the satisfactory fulfilment of the contract less the amount of money deposited by him along with his tender. The amount of security may be deposited in the manner prescribed in clause 4 supra or in Government Treasury savings bank and the pass book pledged to Director or in fixed deposit receipts of State Bank of Travancore/State Bank of India endorsed in favour of the above officer. Letters of guarantee in the prescribed form for the amount of security from an approved bank will also be considered enough at the discretion of KESNIK. If the successful tenderer fails to deposit the security and execute the agreement as stated above, the earnest money deposited by him will be forfeited to KESNIK, and the contract arranged elsewhere at the defaulter's risk and any loss incurred by KESNIK on account of the purchase will be recovered from the defaulter who will, however, not be entitled to any game accruing thereby. If the defaulting firm is a registered firm their registration is liable to be cancelled.  
(b) In cases where a successful tenderer, after having made partial supplies fails to fulfil the contracts in full, all or any of the materials not supplied may at the discretion of the Purchasing officer, be purchased by means of an other tender/quotation, or by negotiation or from the next higher tenderer who had offered to supply already and the loss, if any caused to KESNIK thereby together with such sums as may be fixed by the KESNIK towards damages be recovered from the defaulting tenderer.  
(c) Even in cases where no alternate purchases are arranged for the materials not supplied, the proportionate portion of the security deposit based on the cost of the materials not supplied at the rate shown in the tender of the defaulter shall be forfeited and balance alone shall be refunded.  
(d) If the contractor fails to deliver all or any of the Stores or perform the service within the time/period (s) specified in the contract, the purchaser shall without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, a sum equivalent to 0.5% or 1% of the delivered price of the delayed stores or unperformed services for each week of delay until actual delivery or performance, up to a maximum deduction of 10% of the contract price of the delayed stores or services. Once the maximum is reached, the purchaser may consider termination of the contract at the risk and cost of the contractor.
  13. The security deposit shall subject to the conditions specified herein, be returned to the contractor within three months after the expiration of the contract, but in the event of

any dispute arising between the Department concerned and the contractor, the Department shall be entitled to deduct out of the deposits or the balance thereof, until such dispute is determined, the amount of such damages, costs, charges and expenses as may be claimed. The same may also be deducted from any other sum which may be due at any time from KESNIK to the contractor. In all cases where there are guarantee for the goods supplied the security deposit will be released only after the expiry of the guarantee period.

14. (a) All payments to be contractors will be made by the Purchasing Officer in due course:-
- (i) either by departmental cheques payable at the Kerala Government Treasuries ; or
  - (ii) by cheques or drafts on the Reserve Bank of India, State Bank of India and State Bank of Travancore (at any of their principal branches in India)
  - (iii) in the case of supplies from abroad by drafts as may be arranged between the contracting parties.
- (b) All incidental expenses incurred by the KESNIK for making payments outside the District in which the claim arises shall be borne by the contractor.
15. The tenderers shall quote also the percentage of rebates (discount) offered by them in case the payment is made promptly within fifteen days/within one month of taking delivery of stores.
16. Ordinarily payments will be made only after the supplies are actually verified and taken to stock but in exceptional cases, payments against satisfactory shipping documents including certificates of insurance will be made up to 90% of value of material at the discretion of KESNIK. Bank charges incurred in connection with payments against documents through bank will be to the account of the contractor. The firms will produce stamped pre receipted invoice on all cases were payments ( advance / final) for release of railway receipts / shipping documents are made through banks. In exceptional cases were the stamped receipts of firms are not received for the payments ( in advance) The unstamped receipt of the bank (ie counter foils of pay in slips ( issued by the bank) alone may be accepted as a valid proof for the payment made.
17. The contractor shall not assign or make over the contract or the benefits or burdens thereof to any other person or body corporate. The contractor shall not underlet or sublet to any person or persons or body corporate the execution of contract or any part thereof without the consent in writing of the Director KESNIK. Who shall have absolute power to refuse such consent or to rescind such consent ( if given) at any time if he is no satisfied with

the manner in which the contract is being executed and no allowance or compensation shall be made to the contractor or the sub contractor upon such rescission. Provided always is that such consent be given at any time, the contractor shall not be relieved from any obligation, duty or responsibility under this contract.

- 18 (a) In case the contractor becomes insolvent, or goes into liquidation, or makes purposes to make any assignment for the benefits of his creditors or proposes any composition with his creditors, for the settlement of his debits, carries on his business or the contract under inspection on behalf of his creditors, or incase any receiving order or orders for the administration of his estate are made against him or incase the contractor shall commit any act of insolvency or case in which under any clause or clauses of this contract the contractor shall have rendered himself liable to damages amounting to the whole of his security deposits, the contract shall, thereupon, after notice given by the Director KESNIK to the contractor be determined and the KESNIK may complete the contract in such time and manner and by such persons as the KESNIK shall think fit. But such determination of the contract shall be without any prejudice to any write or remedy of KESNIK against the contractor or his sureties in respect of breach of the contract there fore committed by the contractor. All expenses and damages caused to KESNIK by any breach of contract by the contractor shall be paid by the contractor to the KESNIK, and may be recovered from his under the provisions of the Revenue Recovery Act in force in the state.
- (b) The persons / contractors submitting tenders should produce a solvency certificate, clearly indicating to what extend they are solvent from the Tahsildar of the Thaluk where they reside, along with their tenders.

*Note:- The solvency certificate referred to above will apply only in the case of supply of the following articles, viz. Dietary articles / fuels raw materials like roots, creepers, flowers etc, and provisions to hospitals and hostels sundry articles, etc.*

- 19.(a) In case the contractor fails to supply and deliver any of the said articles and things, within the time provided for delivery of the same, or incase the contractor commits any breach of any of covenants stipulations and agreements herein contained, and on his part to be observed and performed, then and in any such cases, it shall be lawful for KESNIK( If they shall think fit to do so) to arrange for the purchase of the said articles and things from else where or on behalf of the KESNIK by an order in writing under the hand of the director KESNIK put an end to this contract and in case the KESNIK shall have incurred, sustained or been put to any costs, damages or expenses by reason of such purchase or by reason of this contract having been so put an end to or in case any difference in price, compensation, loss, costs, damages, expenses or other moneys

shall then or any time during the continuance of this contract be payable by the contractor to the KESNIK under and by virtue of this contract, it shall be lawful for the KESNIK from and out of any moneys for the time being payable or owing to the contractor from the KESNIK under or by virtue of this contract or otherwise, to pay and reimburse to the KESNIK all such costs, damages and expenses they may have sustained, incurred or been put to by reason of the purchase made elsewhere or by reason of this contract having been so put an end to as aforesaid and also all such difference in price, compensation, loss, costs, damages, expenses and other moneys as shall for the time being payable by the contractor aforesaid.

(b) In case any difference or dispute arises in connection with the contract, all legal proceeding relating to the matter shall be instituted in the court within whose jurisdiction the Director KESNIK voluntarily resides.

20. Any sum of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriated by the Director or KESNIK or any other person authorized by KESNIK and set off against any claim of the Director or KESNIK for the payment of a sum of money arising out of or under any other contract made by the contractor with the Director or KESNIK or any other person authorized by KESNIK. Any sum of money due and payable to the successful tenderer or contractor from KESNIK shall be adjusted against any sum of money due to KESNIK from him under any other contracts.

21. Every notice hereby required or authorized to be given may be either given to the contractor personally or left at his residence or last known place of abode or business, or may be handed over to his agent personally, or may be addressed to the contractor by post at his usual or last known place of abode or business and if so addressed and posted shall be deemed to have been served on the contractor on the date on which, in the ordinary course of post, a letter so addressed and posted would reach his place of abode or business.

22. The tenderer shall undertake to supply materials according to the standard sample and/or specifications.

23. (a) No representation for enhancement of rates once accepted will be considered. However, in exceptional cases Government is convinced of any compelling need for enhancement of rate, it may do so.

(b) In the case of imported goods, when the price accepted is the ex-site price quoted by the tenderer, the benefit of any reduction in the c.i.f. price should accrue to the Director of KESNIK.

24. Any attempt on the part of the tenderers or their agents to influence the KESNIK in their favour by personal canvassing with the Officers concerned will disqualify the tenderers.

25. Tenderers should be prepared to accept orders subject to the penalty clause for forfeiture of security in the event of default in supplies or failure to supply within the stipulated period.

26. Samples should be forwarded if called for and unapproved samples got back by the tenderers at their own cost. Samples sent by V.P Post or 'freight to pay' will not be accepted. The approved samples may or may not be returned at the discretion of the undersigned. Samples sent by post, railway or plane should be so despatched so as to reach the Director not later than the date on which the tenders are due. In the case of the samples sent by the railway the receipt should be sent separately are not along with the tender since the tender will be opened only on the appointed day and demurrage will have to be paid if the railway parcels are not cleared in time. KESNIK will not be responsible if any sample is found missing at any time due to the non-observance of the provisions of this clause. Tenderers whose samples are received late will not be considered, samples should be forwarded under separate cover duly listed and the corresponding number of the item in the tender schedule should also be noted in the list of samples. Tenders for the supply of materials are liable to be rejected unless samples, if called for, of the materials tendered for are forwarded

27. Telegraphic quotations will not be considered unless they give details of prices and are immediately followed by confirmation with full relevant details posted before the due date of the tender.

28. (a) The prices quoted should be inclusive of all taxes, duties, cesses, etc; which are or may become payable by the contractor under existing or future law or rules of the country of origin supply or delivery during the course of execution of the contract.

(b) In case payment of customs/excise duty is to be made by the Director KESNIK. The officer will pay the duty on the "unloaded invoice price" only in the first instance any difference being paid when the tenderer produces the final assessment orders later.

29. The tender will invariably furnish the following certificates with their bills for payment:-

"Certified that the goods on which sales tax has been charged have not been exempted under the central sales tax act or the state sales tax act or the rules made there under and the charges on account of sales tax on these goods are correct under the provisions of the relevant act or the rules made there under.

Certified further that we (or our branch or agent), (Address)

are registered as dealers in the state of. . . . .

. . . . .

.....under Registration

No.....for purposes of sales tax "

30. Special conditions, if any, of the tenderers attached with the tenders will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.

31. (This applies only to the case of supply contracts where works such as erection and construction have also to be done. This may be scored out when not applicable). In the event of any question or dispute arising under these conditions or any special conditions of this contract or in connection with this contract the same shall be referred to the award of an arbitrator to be nominated by the purchasing officer and an arbitrator to be nominated by the contractor or in case of the said arbitrators not agreeing then to the award of an umpire to be appointed by the arbitrators in writing before proceeding on the reference and the decision of the arbitration or in the event of their not agreeing of the umpire appointed by them shall be final and conclusive and the provision of the Indian Arbitration Act, 1940 and of the rules there under and any statutory modifications thereof shall be deemed to apply to and be incorporated in this contract. Upon every and any such reference the assessment of the costs incidental to their reference and award respectively shall be in the discretion of the arbitrators or in the event of their not agreeing of the umpire appointed by them. The venue of arbitration shall be the place from which the acceptance of tender is issued or such other place as the purchaser at his entire discretion may determine.

Name of Officer :

Station and date:

32. The tenderer should send along with his tender an agreement executed and signed in Kerala Stamp Paper of Value Rs.15 purchased in the Kerala State. Stamp paper will be supplied to firms outside Kerala along with the tender forms or payment of Rs.20 (Rs.15 being the value of the stamp paper and Rs.5 incidental charges) which may be remitted by money order in advance. A specimen form of agreement is also given in this Annexure. Tenders without the agreement in stamped paper will be rejected outright. But in deserving cases where agreement has not been received, the purchasing officer may exercise his discretion and call upon such tenderer to execute the agreement within a period of ten days from the date of issue of such intimation, if the purchasing Officer is satisfied that the omission to forward the agreement along with the tender was due to cause beyond the control of the tenderer and was not due to any negligence on his part. Agreement received from a tenderer after the above time limit will not be considered.

(Name & designation of Purchasing Officer)

**Superscription: Tender No. 3(R)/2022 for the purchase and Installation of 25 KVA III Phase KIRLOSKAR i GREEN DG Set Generator.**

**Due date and time for receipt of tender 28.02.2022 , at 3 pm**

**Date and time for opening of tender: Same day 4 pm**

**Date upto which the rates are to be firm: for a period of one year**

**Price of tender form: Rs. 1000 /-+12%GST**

**Address of Officer from whom tender forms are to obtained and to whom tenders are to sent:**

**Name of office:**

**(Name and Designation of the Director of KESNIK)  
Director**

**Station and date:**



**Other Special Conditions:-**

1. *The tender should be accompanied by the literature, catalogues etc. containing detailed specifications of the items as specified in the schedule.*
2. *The items should be provided to the **Kerala State Nirmithi Kendra, PTP Nagar, Thiruvananthapuram – 38 Ph: 9497690024***
3. *The minimum rate of AMC after warranty should also be quoted.*
4. *List of institutions where you have supplied similar items should be furnished.*
5. *In case any clarification needed in addition to the specification mentioned regarding quality of items, it should be furnished.*
6. *All the items are to be tested and demonstrated before the competent authority of KESNIK by the authorized technicians of the firm.*
7. *Payment will be made only after satisfactory receipt, installation of the item.*
8. *Warranty period should be minimum 2 years.*
9. *The bill in triplicate should be forwarded to Director, Kerala State Nirmithi Kendra, PTP Nagar for payment.*

AGREEMENT

ARTICLES OF AGREEMENT executed on this the .....day of ..... two thousand and .....BETWEEN The KESNIK (hereinafter referred to as "the Government") of the part and Shri..... name and address of the tenderer) (hereinafter referred to as "the bounden") of the other part.

WHEREAS in response to the notification No..... dated..... the bounden has submitted to KESNIK a tender for the..... specified therein subject to the terms and conditions contained in the said tender;

WHEREAS the bounden has also deposited with the KESNIK a sum of Rs.....(1%) as earnest money for execution of an agreement undertaking the due fulfilment of the contract in case his tender is accepted by the KESNIK.

NOW THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:-

1. In case the tender submitted by the bounden is accepted by the KESNIK and the Contract for .....is awarded to the bounden, the bounden shall within .....days of acceptance of his tender execute an agreement with KESNIK incorporating all the terms and conditions in which the KESNIK accepts his tender.

2. In case the bounden fails to execute the agreement as aforesaid incorporating the terms and conditions governing the contract the KESNIK shall have power and authority to recover from the bounden any loss or damage caused to the KESNIK by such breach as may be determined by the KESNIK by appropriating the earnest money deposited by the bounden and if the earnest money is found to be inadequate the deficit amount may be recovered from the bounden and his properties movable and immovable in the manner hereinafter contained.

3. All sums found due to the KESNIK under or by virtue of this agreement shall be recoverable from the bounden and his properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue and in such other manner as the KESNIK may deem fit.

In witness whereof Shri..... (Name and designation) for and on behalf of the KESNIK and Shri.....the bounden have hereunto set their hands the day and year shown against their respective signatures.

Signed by Shri..... Date).....

In presence of witnesses:

- 1.....
2.....

Signed by Shri.....(date).....

In presence of witnesses:

- 1.....
2.....

## Schedule of materials

Sl. No.	Qty	Specification	Unit	Rate	Amount
1	1 No	Supply and Installation of 25 KVA III Phase KIRLOSKAR i GREEN DG Set Generator (Technical Specification attached)	1 No		
<b>Erection:</b>					
2	10 mtrs	Supply and laying of 4 C X 16 sq.mm. Al. armoured Cable	M		
3	35 mtrs	Supply and Laying of 6 Swg Copper	M		
4	3 Nos	Earth pit	Nos		
5	10 mtrs	Supply and Laying of 2 C x 2.5 copper cable	M		
6	4 Nos	Glanding & Termination	Nos		
		Charge for Preparation of Electrical Drawings, Necessary forms, Documents etc. And getting approval and energization certificate from Electrical Inspectorate			
		TOTAL			
		GST			
		AMC Charge for Three Years (After Warranty period )			
		GRAND TOTAL			

### Technical Specification

#### **ENGINE:**

KIRLOSKAR make model 3R1040T G1, 42 BHP Water cooled at 1500 RPM Diesel engine consisting of Fly wheel with starter ring, Lube oil filter, Air cleaner, Residential Silencer, 12V starting system with starter, Battery charging Alternator, lube oil pressure gauge, water temperature gauge, safety system for LLOP & HWT. The engine shall generally confirm to IS 10002:1981, BS 5514, DIN 6271, ISO 3046 standards.

#### **ALTERNATOR:**

KIRLOSKAR iGREEN Make 25 KVA 20 KW Three phase 415V, 0.8 pf, 4 wire 50hz at 1500-RPM self excited and self regulated alternator. The voltage regulation will be +/-1%. The insulation system is class "H". The Alternators are designed, built and tested to IS 4722/1992, BS 5000 part 99, IEC: 34-1 or any other equivalent Indian or international standards.

#### **STANDARD CONTROL PANEL:**

Control Panel as per Kerala Electrical Inspectorate requirement, inside Canopy, totally enclosed sheet metal suitable for above Alternator with EMS KG934 unit, CTs of suitable ratings, indicating Lamp's "LOAD ON & SET RUNNING", MCCB, KWH METER.

#### **BASE FRAME:**

Base frame is fabricated in sheet metal. The base frame is rugged in construction and designed for mounting KIRLOSKAR, engine and KG brush less alternator close coupled, with cross members mounted on AVM. The base frame shall have provision for mounting of acoustic enclosure & control panel on it. The base frame is having provision of lifting hook for convenient lifting of complete set. i.e.. along with canopy, engine and alternator.

**BATTERIES:**

KIRLOSKAR iGREEN make 1 x 12 V Charged Battery with leads.

**FUEL TANK:** 65 Ltrs Capacity Fuel Tank.

**ACCOUSTIC ENCLOSURE:**

Type Approved acoustic Enclosure. KIRLOSKAR GREEN Acoustic enclosure shall be powder coated and fabricated out of 16 SWG CRCA MS sheet. The silent canopy shall be of nut bolt type construction. Critical processes of punching is done on CNC machines to maintain dimensional accuracy of holes within 0.1 mm. Powder coating is done after seven-tank surface preparation process of sheet metal. Canopy panel and doors shall have inside lining of FIRE-RETARDANT foam as acoustic material. Four hinged doors shall be provided to canopy, one door shall have glass window for Engine control panel. Sound level will be 75 dB at a distance of one meter on free field conditions as per CPCB norms.

Chief Technical Officer

