



ISO 9001 & 14001 CORPORATION

**TENDER SPECIFICATION
FOR SUPPLY AND INSTALLATION OF 250 KVA SILENT
TYPE DG SET WITH AMF PANEL FOR MCA BUILDING AT
BIDANASI, CUTTACK.**

- ❖ Tender Call Notice No. : 2531 Dtd.24.08.2010
- ❖ Estimated Cost : Rs.20.46 Lakh
- ❖ Time of Completion : Sixty Days
- ❖ Cost of Tender Paper : Rs.6,000.00 + 4%VAT
- ❖ EMD : Rs.20,500.00
- ❖ Date of Sale / Downloading : Dtd.31.08.10 to 09.09.10
- ❖ Date of Receipt : Dtd.15.09.10 upto15.00 Hrs.
- ❖ Date of Opening : Dtd.16.09.10 at 16.00 Hrs.
- ❖ M.R. No. & Date :
- ❖ Issued to : M/s.

No. of Correction :
No. of overwriting :

Signature of the Contractor

COMMERCIAL BID

No. of Correction :
No. of overwriting :

Signature of the Contractor

PART - A

Sir,

1. After careful examination of the above specification together with the general conditions referred therein, we hereby offer to supply, erect, test and commission the materials covered thereon complete in all respects as per specification and general conditions at the rate quoted in attached schedule of prices of the tender.
2. Our offer shall be valid up to 180 days from the date of opening of Price Bid of the tender.
3. We hereby undertake to have the materials delivered/ work executed within the time specified in the tender and to adhere to the quantity to be supplied at destinations to be prescribed by the owner.
4. We hereby guarantee the technical particulars given in the tender, supported with necessary test reports from concerned authorities.
5. We certify to have purchased a copy of the tender papers by remitting Rs._____ (Rupees _____) only by cash and this has been acknowledged by you in your money receipt No_____ dated_____.
6. We agree to furnish the security deposit in the manner to be decided by your competent authority.

We remain.

Yours faithfully,

(Signature)
(With seal)

Note: This form should be duly filled in by the tenderer and returned to the Divisional Head (Elect), IDCO Bhubaneswar - 751 022 along with the tender.

No. of Correction :
No. of overwriting :

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ORISSA INDUSTRIAL INFRASTRUCTURE DEVELOPMENT CORPORATION (IDCO)
IDCO TOWER JANPATH, BHUBANESWAR-10



(IDCO/OP/ELECT/ F-05)

TENDER CALL NOTICE

No. BBSR / ELECT / E - 1651 / 10 - 11 /2531

Date. 24.08.2010

1. The Divisional Head (Electrical), IDCO, Bhubaneswar invites Sealed Tenders from Manufacturer of Diesel Engines / Alternators of makes specified below or their authorized OEM for **Supply and Installation of 250 KVA Silent type DG Set with AMF Panel for MCA Building at Bidanasi, Cuttack**. The Tender Documents will be issued on production of the following valid / satisfactory documents.
 - Copy of Documents in support as OEM / Authorisation from the Manufacturer.
 - Copy of valid VAT Registration Certificate.
 - Copy of valid VAT Clearance Certificate.
 - Copy of valid EPF Registration and PAN.
 - Copy of Letter having Service Facility at Bhubaneswar / Cuttack.
2. The Tender Document may be purchased from the office of the undersigned or can be downloaded from 31.08.10 to 09.09.10 IDCO's website at **www.idco.in** which must accompany the Tender Document Cost (Non-refundable) of Rs.6,000.00 + VAT @ 4% only in the form of Demand Draft along with the Tender drawn in any Nationalised Bank in favour of "**Orissa Industrial Infrastructure Development Corporation**" payable at Bhubaneswar in a separate cover failing which the Tender will be liable for rejection. IDCO shall not be responsible for any delay / difficulties / inaccessibility of the down loading facilities for any reason what so ever. In case of any discrepancy between the Tender Documents down loaded from internet and the Master Copy available in the office, the Master Copy will prevail. No claim on this account will be entertained.
3. The bids must be delivered by Regd. Post / Speed Post only to the office of the Divisional Head, Electrical Division, IDCO, Bhubaneswar on or before 15.09.10 at 16.00 Hrs. and will be opened on 16.09.10 at 16.00 Hrs. in presence of the bidders or their authorized representative, who wishes to attend. If the office happens to be eventually closed on the date of submission of the bids, the bids will be received and opened on the next working day of opening of the office at the same time and venue. Other details can be seen in the Bidding Documents.
4. Bids must be accompanied by Earnest Money in the shape of Demand Draft for an amount as mentioned in the table payable at Bhubaneswar and drawn in favour of "**Orissa Industrial Infrastructure development Corporation**". Bids without required amount of Earnest Money will not be taken in to consideration. Each Tender shall be accompanied with separate EMD.

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5. The authority reserves the right to accept or reject any or all the bids or parts without assigning any reason there of.

6. The undersigned will not be held responsible for postal delay.

7. In case of any clarification please visit IDCO's website or the bidder can contact Sri M.Amiya, Joint Manager (Electrical), IDCO, Bhubaneswar at Tel. No. (0674) 2543506, Extn.-456 during office hours.

TABLE					
Pkg. No.	Name of the Work	Approx. Value of Work	(EMD) Bid Security (in Rs.)	Cost of Documents (in Rs.)	Period of Delivery
1.	Design, Supply, Erection, Testing, Commissioning, Inspection by Statutory Local Authorities, Loading, Transportation Charges from Manufacturers Factory Site and Unloading at MCA Building Site, Bidanasi, Cuttack of 250 KVA, 415 Volt, 50 Hz, 3 Phase, Silent type DG Sets complete with Diesel Engine, Alternator, Acoustic Enclosure with AMF Panel having arrangement for termination of 2 nos. 3.5cx185 sqmm Armoured Aluminium PVC cables at incoming and outgoing sides, Control Cables, Batteries, Battery Charger, Fuel Tank, Fuel Piping, Silencer, Exhaust Piping, Thermal Logging, Asbestos Rope Insulation, Cladding etc. for Exhaust Piping complete as required. Engine Make: VOLVO / Cummins / Cater Pillar / Greaves / MWM / Kirloskar or equivalent. Alternator Make : Stamford / KEC / AVKC or equivalent.	Rs20.46 Lakh	20,500.00	6,000.00 + VAT @ 4%	60 Days

Sd/-

DIVISIONAL HEAD (ELECTRICAL)

Memo No. 2532/Dtd.24.08.2010

Copy submitted to Chief General Manager (Civil), IDCO, Bhubaneswar for favour of kind information.

Sd/-

DIVISIONAL HEAD (ELECTRICAL)

No. of Correction :
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Signature of the Contractor

Memo No. 2533/Dtd.24.08.2010

Copy forwarded to Manager (P&A), in charge of (PR), IDCO, Bhubaneswar for information and necessary action. It is requested to publish the notice in Local Daily Newspaper for one day on or before 31.08.10. The copy of the paper publication may please be furnished to this office on receipt of records.

Sd/-

DIVISIONAL HEAD (ELECTRICAL)

Memo No. 2534/Dtd.24.08.2010

Copy to Deputy General Manager (MIS), IDCO, Bhubaneswar for information and necessary action. The copy of Tender Notice contained in the floppy enclosed may be included in one web site.

Sd/-

DIVISIONAL HEAD (ELECTRICAL)

Memo No. 2535/Dtd.24.08.2010

Copy to IDCO Notice Board for wide circulation.

Sd/-

DIVISIONAL HEAD (ELECTRICAL)

COMMERCIAL TERMS & CONDITIONS

The Bidder shall tabulate the commercial terms and conditions of the tender in the following. Additional sheets may be attached, if required.

- 1.0 Bidder's Complete Company Name :
- 2.0 Bidder's Proposal Number :
- 3.0 Bidder's Proposal Date :
- 4.0 Name and Designation of the Officer :
of the Bidder to whom all references shall be made for expeditious technical co-ordination.
- 5.0 Bidder's Proposal Validity :
- a) Is the Bidder's proposal validity as per owner's specification acceptable? : (Yes / No)
- b) If not, specify the terms of Validity of Bidder's Proposal (in months) from the date of opening of Price Bid
- 6.0 Delivery and completion
- a) Is the terms of Delivery / Completion Period as per owner's specification acceptable? : (Yes / No)
- b) If not, specify the terms of Delivery / Completion Period (in months) from the date of issue of Letter of Intent :
- i) Supply of material (Delivery) :
- ii) Installation, testing and commissioning of works complete in all respect. (Completion) :
- c) Whether the Delivery / Completion Period is guaranteed under Penalty / Liquidated Damage as per GCC? : (Yes / No)
- 7.0 Terms of Payment:
- a) Are Terms of payment as per owner's specification acceptable? : (Yes / No)
- b) If not, specify the terms of payment :

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- 8.0 Whether EMD Deposited? : (Yes / No)
 If so, give reference. :
 If not, give reasons. :
- 7.0 Whether registered with D.G.S. & D / : (Yes / No)
 E.P.M. / Any other such Organization?
 If so, Give details? (Enclose Photostat :
 copy of the reference letter)
- 8.0 Whether Photocopy of following :
 currently valid documents furnished?
- (a) Orissa Sales Tax Registration : (Yes / No)
 Certificate
- (b) Orissa Sales Tax Clearance Certificate : (Yes / No)
- (c) Income Tax Clearance Certificate : (Yes / No)
- (d) Provident Fund Registration Certificate : (Yes / No)
- 9.0 Conformance:
- a) Whether the materials offered are : (Yes / No)
 strictly in accordance with owner's
 specification?
- b) If not, have deviation sheets been : (Yes / No)
 duly filled up?
- 10.0 Is the Performance Guarantee period : (Yes / No)
 specified in GCC accepted?
 If not, specify the Performance :
 Guarantee period (in months)
- a) From the date of commissioning at :
 site
- b) From the date of despatch :
11. Whether after sales service facilities : (Yes / No)
 are available at Bhubaneswar.
- a) If Yes, give address & details :
- b) If No, location nearest service centre :
12. Whether tenderer is a manufacturer of : (Yes / No)
 approved make of materials?

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GUIDELINES ON BANK GUARANTEE

The following points are required to be noted by the party while submitting any Bank Guarantee.

1. Non-judicial stamp papers on which Bank Guarantee is typed must be purchased in the name of the issuing Bank.
2. The Bank Guarantee must be executed on non-judicial stamp paper of the value applicable in the State, where the Bank Guarantee has been executed.
3. The Bank Guarantee must be furnished in the given proforma by any Nationalised / Scheduled Bank and **made operable at Bhubaneswar** only.
4. The Bank Guarantee must be executed within six months from the date of purchase of non-judicial stamp papers.
5. The Bank Guarantee should never be typed on both sides of the non-judicial stamp papers.
6. The Bank Officer executing the Bank Guarantee must furnish the number and date of power of Attorney / Delegation of Authority by which, he has been authorised to issue the Bank Guarantee.
7. The person executing the Bank Guarantee must write his full name and designation.
8. The person, executing the Bank Guarantee, must sign in all pages of Bank Guarantee.
9. All cuttings / additions / over writings in inks must be authenticated by the person executing the Bank Guarantee by his signature and seal of the Bank.
10. Execution of Bank Guarantee must be witnessed by two persons.
11. Witnesses must mention their full name and address.
12. Three months time must be given to file claim or suit from the date of expiry of the Bank Guarantee.
13. The Act, under which issuing Bank is constituted, should be correctly given.
14. If EMD is deposited in shape of Bank Guarantee, it should be valid, operative and irrecoverable till 60 (sixty days) after the validity of offer.
15. All dates should be carefully and correctly put in the Bank Guarantee.

No. of Correction :
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(Formats & Deviations)

FORMAT FOR BANK GUARANTEE AS EMD

Dated
Bank Guarantee No.

Ref. No.

To

**M/s. Orissa Industrial Infrastructure Development Corporation,
IDCO, IDCO Towers, Janpath,
Bhubaneswar - 7,
Dist. Khurda (Orissa)**

Dear Sirs,

In consideration of Orissa Industrial Infrastructure Development Corporation, having its Registered Office at IDCO Towers, Janapath, Bhubaneswar (hereinafter called the 'Owner' which expression shall unless repugnant to the subject or context include its successors and assigns) having issued enquiry for **"Supply, Erection, Testing and commissioning of One no. 250KVA Silent type D.G set complete with all accessories for MCA Building at Cuttack"** as mentioned in Tender Specification and M/s. _____ having its Registered Head Office at _____ (hereinafter called the 'Tenderer') who wished to participate in the said tender for **"Supply, Erection, Testing and commissioning of One no. 250KVA Silent type D.G set complete with all accessories for MCA Building at Cuttack"** as mentioned in Tender Specification and the owner, as a special favour, have agreed to accept an irrevocable and unconditional Bank Bid Guarantee executed by any Nationalised Bank operable at its Bhubaneswar Branch only for an amount of Rs. ____ valid up to _____ on behalf of the tenderer in lieu of Cash Deposit required to be made by the Tenderer, as a condition precedent for participation in the said tender.

We the _____ (Bank & Address) incorporated under ____ law and having our Registered Head Office at _____ and one of our branches at _____ (Bhubaneswar Branch Address) do hereby unconditionally and irrevocably guarantee and undertake to pay to the 'Owner' immediately on demand at our Bhubaneswar Branch without any demur reservation, protest, contest and recourse to the extent of the said sum of Rs. _____ (Rupees _____) only. Any such claim/ demand made by the said 'Owner' on us shall be conclusive and binding on us irrespective of any dispute or differences raised by the tenderer. This guarantee shall be irrevocable and shall remain valid up to _____. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from the Tenderer on whose behalf this guarantee is issued.

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We, the said Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Owner in writing and agree that any change in the constitution of the said tenderer or the said Bank shall not discharge our liability here under.

I witness where of, the Bank, through its authorized offices has set its hand and stamp on this _____ day of _____ 2010 at _____.

Witness :

Signature

(Signature)

Name :

Name :
Designation with Bank Stamp.

Official Address :

Attorney as per power of

Attorney No.

Date.

Note: The stamp papers of Rupees forty only shall be purchased in the name of "Bid Guarantee issuing Bank".

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PART - B

DEVIATION SHEET: PART – (I)

If the proposal has got any deviation from the Technical Specification, the Bidder shall tabulate these deviations clause by clause in this Schedule. Additional sheets may be attached, if required.

Clause No.	Deviations
------------	------------

No. of Correction :
No. of overwriting :

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DEVIATION SHEET : PART – (II)

If the proposal has got any deviation from the tendering conditions and the General Conditions of Contract, the Bidder shall tabulate these deviations clause by clause in this Schedule. Additional sheets may be attached, if required.

Clause No.	Deviations
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No. of Correction :
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DEVIATION SHEET (IN PRICE): PART – (III)

Against each and every deviation from the Technical Specification as enumerated in Deviation Sheet: Part - A, the amount by which the Bid Price will thereby be increased or decreased shall be intimated clause by clause in this Schedule. In case the amount is not mentioned in the Schedule against any of the deviations mentioned in Deviation Sheet: Part - A, it will be taken for granted that the same does not involve any change in the Bid Price. Additional sheets may be attached, if required.

Clause No.	Deviation if any	Amount by which the Bid Price will change	
		Increase (Rs.)	Decrease (Rs.)

No. of Correction :
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LIST OF MAKES

The Bidder shall tabulate the make of the offered major materials in the following proforma. Additional sheets may be attached, if required. Detail technical specification, leaflets etc. relating to the major materials shall be annexed to the bid.

S.NO.	MATERIAL DESCRIPTION	MAKE OF MATERIALS
--------------	-----------------------------	--------------------------

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

No. of Correction :
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LIST OF MANDATORY SPARES

The Bidder shall tabulate the make and quantity of the Spare Parts to be kept as mandatory spares in the following proforma. Additional sheets may be attached, if required. Detail technical specification, leaflets etc. relating to the major mandatory spares shall be annexed to the bid.

S.NO.	SPARE PARTS	MAKE OF SPARE	QNTY	RATE
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1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

No. of Correction :
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LIST OF SPECIAL TOOLS & TACKLES

The Bidder shall tabulate the Special tools and tackles required to be kept in the following proforma. Additional sheets may be attached, if required. Detail technical specification, leaflets etc. relating to the major tools and tackles shall be annexed to the bid.

S.NO.	TOOLS & TACKLES	QNTY
-------	-----------------	------

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

No. of Correction :
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DETAILS OF SIMILAR WORKS DONE DURING LAST TWO YEARS

The Bidder shall tabulate the details of similar works done during last two years by him or the manufacturer, on whose behalf he is quoting, in the following proforma.

SI No	Name of Client & Postal Address	Description of Work	Contract Value	Commencement Date	Scheduled Completion Time	Actual Date of Completion	Reasons for Time Over-run, if any.
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No. of Correction :
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DETAILS OF SIMILAR CONCURRENT WORKS

The Bidder shall tabulate the details of similar works presently being undertaken by him or the manufacturer, on whose behalf he is quoting, in the following proforma.

Sl No	Name of Client & Postal Address	Description of Work with capacity	Contract Value	Commence-ment Date	Scheduled Completion Time	Expected Date of Completion	Reasons for Time Over-run, if any.
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ANNUAL TURNOVER STATEMENT

The bidders shall indicate herein his annual turnover during preceding 2 years based on the audited balance sheet/profit & loss account statement.

FINANCIAL YEAR	ANNUAL TURNOVER (Rs.)	NET WORTH (Rs.)
2008-2009		
2009-2010		

NOTE 1. Copies of audited balance sheets with profit & loss account statement for last 2 years are enclosed along the bid.

2. Bidders shall work out Net worth on following basis.

Net worth: Reserve + capital - accumulated loss

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INSTRUCTION FOR THE TENDERER

General Instructions:

The work put to tender pertains for **"Supply, Erection, Testing, Commissioning of One no. 250KVA Silent type D.G. Set complete with all accessories for MCA Building at Cuttack** as mentioned in Tender Specification. The tenderer shall ensure to follow the instructions given hereunder failing which the tenders shall be liable for rejection.

Scope of Proposal:

The scope of proposal shall be in accordance with the enclosed technical specification covering for **"Supply, Erection, Testing, Commissioning of One no. 250KVA Silent type D.G. Set complete with all accessories for MCA Building at Cuttack** as mentioned in Tender Specification on Turnkey basis complete in all respect.

Submission of Tender:

Tenderers are advised to fill up the prices in the prescribed format only. The tender shall be submitted in three parts.

Part A will cover the **Commercial Bid** such as the Letter of Application, Commercial Terms and Conditions, VAT Tax Clearance Certificate, VAT Registration Certificate Income Tax Clearance Certificate / PAN, , Documentary Proof of satisfying the required eligibility criteria specified in Tender Notice, Undertaking for registration in Orissa Sales Tax Department in case of order (for bidders not possessing OSTRC), Bank Draft towards cost of Tender Paper (for the firms participating in the tender by downloading the tender document from our Website) and EMD etc. Any document the firm is willing to furnish other than Technical Literatures and Drawings shall be submitted with Commercial Bid.

Part B will cover the **Technical Bid** with required Drawings, General Conditions, Special Conditions, Technical Specifications, Guaranteed Technical particulars and Deviations, if any.

Part C will cover only the **Price Bid**.

Each envelope shall be duly sealed and the Envelope shall be super-scribed with **"Supply, Erection, Testing, Commissioning of One no. 250KVA Silent type D.G. Set complete with all accessories for MCA Building at Cuttack** as mentioned in Tender Specification. Date of Opening: **Dtd.16.09.2010** and sealed properly.

Telegraphic Tenders will not be accepted.

Receipt and Opening of Tender:

Tenders as described above shall be received in the Office of the Divisional Head (Electrical), IDCO, IDCO Towers, Janapath, Bhubaneswar and shall be opened on the scheduled date and time.

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VAT Clearance:

The tenderer shall furnish valid current VAT Clearance Certificates, TIN / PAN along with EMD contained in the envelope. Bidders not possessing TIN shall submit an undertaking to register themselves to Orissa Sales Tax Department in case of being awarded the work. Tenders not accompanied with these documents shall be liable for rejection at the discretion of the purchaser.

Nature of Contract

The work put to tender as described "scope of proposal" being a job contract in nature shall be treated as "Indivisible" works contract. Therefore this contract shall be subject to "Orissa Sales Tax on works contract".

Validity:

The tenderers shall keep the tender valid for a period of 180 (One Hundred Eighty) days from the date of opening of Price Bid.

Reservation of Right:

The owner reserves the right to accept any bid or reject any or all bids or cancel or withdraw invitation for bid without assigning any reason for such decision. Such decision, by the owner shall not be subject to question by any bidder and the owner shall bear no liability whatsoever consequent upon such a decision.

Clarifications on Tender Specifications:

The tenderer should seek for the clarifications with regard to the specification, if any, before submission of the tenders. No correspondence on this account will be entertained after submission of tender.

GENERAL TERMS AND CONDITIONS OF CONTRACT FOR TURNKEY CONTRACT**Definition of Terms:**

In construing this contract and the scope of work, the following words will have same meaning herein assigned to them unless there is something in the subject or context in consistent with such construction.

Owner:

The "Owner" shall mean the Orissa Industrial Infrastructure Development Corporation (IDCO) (A Government of Orissa Undertaking) and shall include its legal representatives, successors and assignees.

Contractor:

The "Contractor" shall mean the firm whose tender has been accepted by the owner and shall include its legal representatives, successors and assignees.

Engineer In Charge:

The "Engineer-in-charge" shall mean the Divisional Head, IDCO, Electrical Division, IDCO Towers, Janpath, Bhubaneswar or his authorised representative.

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Consulting Engineer:

The "Consulting Engineer" shall mean the Divisional Head (Electrical), IDCO, IDCO Towers, Janpath, Bhubaneswar or his authorised representative.

Consignee:

The "Consignee" shall mean the person authorised by the Consulting Engineer / Engineer-in-charge to receive the materials, supervise and take measurement of the work.

Site:

The "Site" shall mean, the actual place of the proposed Project as detailed in the specification or other place where work has to be executed under this contract.

Specification:

The "Specification" shall mean collectively all terms stipulated in the contract known as General Conditions, Technical Specification and such amendments as may be made in the Agreement pertaining to method and manner of performing the work with respect of quantities & qualities of materials and workmanship to be furnished under the contract.

Contract:

The "Contract" shall mean and include the following documents:

1. Invitation to Tender
2. Instructions to Tenderer
3. General Terms & Conditions of Contract
4. Technical Specification
5. Contract Agreement
6. Contractors' tender proposal including clarification letters
7. Letter of Intent
8. Work order
9. Agreement

Commissioning:

The "Commissioning" shall mean the first authorised operation of the equipment / installation after completion of erection, testing, initial adjustments, statutory approvals etc.

Approved:

The "Approved" shall mean the written approval of the Divisional Head (Electrical), IDCO.

Months:

Months shall mean the calendar month.

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Performance Test:

The "Performance Test" shall mean all the tests as prescribed in the specification / ISS to be carried out by the contractor before taking over the installation by the owner.

Final Acceptance:

The "Final Acceptance" shall mean the owners written acceptance of the works performed under the contract after successful completion of Performance and Guarantee Test and Commissioning.

Contractor to Inform Himself Fully:

The contractor shall be deemed to have carefully examined the General Conditions, Specifications, Schedules and Drawings and also to have satisfied himself as to the nature and type of work to be executed and where necessary of the site conditions and other relevant matters and details. Any information thus had or otherwise obtained from the owner / consulting engineer or the inspector shall not in any way relieve the contractor from his responsibility for supplying the plant and equipment or material and executing the work in terms of the specification including all details and incidental works and supply of all accessories or apparatus which may not have been specifically mentioned in the specification or drawings but otherwise necessary for ensuring complete erection and safe and sufficient working of the plant and equipment or installation.

Deviation:

In case the tenderer wish to deviate in any way from the General Conditions of contract or the Technical Specifications, he should draw specific attention to such departure in his tender. All such deviations shall be clearly mentioned in the Deviation Sheet giving the corresponding reference clause Number. Terms such as See covering letter or Tender printed General Terms & Condition are not acceptable, unless such deviations are submitted with the tender, it will be understood and agreed that the tenderers proposal is based on strict conformance to purchasers specification in all respects.

It is in the interest of the Tenderers to study the Specification, drawing etc. specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the Tenderers, the same are prominently brought out on a separate sheet in the Deviation Statement Format. Unless deviations are specifically mentioned in the Deviation Statement Formats attached in the tender paper, it shall be presumed that the Tenderer has accepted all the conditions, stipulated in the tender Specification, notwithstanding any exemptions mentioned therein.

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Price:

- i. The unit rates quoted for Design, Engineering, Manufacturing, Supply at site, Storage, Handling, Installation, Testing and Commissioning shall be inclusive of all taxes, duties, royalties and all other taxes applicable such as sales tax on work contract and income tax etc.
- ii. The prices are to be quoted on the lump-sum price based on item rates as indicated in the specification. THE TENDERER SHALL QUOTE FIRM PRICES FOR THE COMPLETE SCOPE OF WORK. The prices are to be quoted for the work complete in all respects in strict accordance with the specifications. Should the Tenderer wish to propose alternatives the same should be clearly mentioned in the deviation. Any action on the part of the Tenderer to revise the price/ prices/ and/ or to change the structure of price/ prices at his own instance after opening of the tender may result in rejection of the tender.
- iii. The tenderer shall ensure that all prices are filled in the price schedule both in works and figures. No over writing shall be allowed. The tenderer shall countersign all scoring and cancellation. In case of illegibility, the interpretation and decision of the Engineer-in-charge of the work shall be final.
All entry shall be in English language only. The price should be inclusive of all taxes, duties and transit insurance and FOR destination. Please note that this office will not issue any concessional form for Sales Tax. **The purchaser shall not issue any Waybill.**
- iv. When there is difference between a rate in figure and in words, the rates that correspond to the amount worked out by the bidder shall be taken as correct.
- v. When the bidder has not worked out the amount of an item or it does neither correspond with the rate written in figures not in words, then rate quoted by the bidder in words shall be taken as correct.
- vi. When the rate quoted by the bidder in figures and in words tallies but the amount is not worked out correctly, the rate quoted by the bidder shall be taken as correct and not the amount.

Terms of Payment:

Subject to any deduction which the owner may be authorized to make under the contract, the contractor shall on the certificate of the engineer or his authorized representatives whose certificate will be final regarding evidence of materials at site and completion or erection etc. be entitles to payments generally as follows.

1. 90% payment will be paid after receipt, verification, acceptance and erection, of the installation.
2. Balance 10% will be released after testing and commissioning of the installation against submission of the B.G. equivalent to the 10% of the contract price.

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Contract Price:

The lump sum price quoted by the contractor in his bid with additions and deletion as may be agreed before signing of the contract for the entire scope of the work viz. Supply and erection of equipment concerned under the specification and documents shall be treated as the contract price.

Change of Quantity:

The owner reserves the right to vary the quantities of items or groups of items to be ordered as specified in the accompanying Technical Specifications as may be necessary during the execution of the contract.

Taxes:

- i. The contractor shall include all taxes, duties, royalty of whatever nature, entry tax; other local taxes etc. if any in the quoted price.
- ii. VAT or any other tax on materials required for the work and also tax on works contract shall be payable by the contractor and owner will not entertain any such claim whatsoever on this account.
- iii. Not with standing anything contained elsewhere in the contract, the owner shall deduct at source from the payment due to the contract, the taxes as required under Orissa sales tax Act and Income Tax Act, 1961 or as amended from time to time, or any other statute. The owner shall pay the amount so deducted to the Sales Tax and Income Tax authorities as per the law. This is for the contractor to deal with the Sales tax Authority directly in respect to any claim or refund relating to the above tax owner shall not be liable or responsible for any type of payment for reimbursement in this regard.
- iv. The supplier/contractor should furnish his valid VAT clearance certificate with TIN.

Liquidated Damage for Delay in Completion:

If the contractor fails in the due performance of the contract to supply / erection / testing / commissioning the equipment within the time fixed by the owner or any extension thereof, he shall be liable at the discretion of the Engineer to liquidated damage amounting to 0.5% (HALF PERCENT) of the contract price per week. The contractor's liability for delay shall not in any case exceed 5% (FIVE PERCENT) of the total contract price. If the contractor shall fail to supply the equipment or any part thereof within a reasonable period after the expiry of the appointed time of extended time as may be provided for in the contract the provisions in clause "Negligence" shall become operative, in addition to the liability of Liquidated Damage as above.

Despatch Instructions:

The materials that will be required to be despatched under this contract, shall be despatched to Divisional Head, Electrical Division, IDCO, First Floor, IDCO Towers, Janpath, Bhubaneswar. The contractor shall have to intimate the probable date of arrival of materials at site to the Engineer.

No. of Correction :
No. of overwriting :

Signature of the Contractor

Inspection and Tests:

The corporation shall inspect, examine and test the equipment material through its representative at the manufacture / suppliers works during or after the manufacture of goods prior to despatch on receipt of a clear notice of minimum two weeks in advance to the reckoned from the date of receipt by the purchase. The supplier / contractor shall provide all facilities as may be required to carry out the tests in accordance with approved standards free of cost.

Negligence:

If the contractor neglects to execute the work with due diligence and expedition or refuses or neglects to comply with any reasonable orders given to him in writing by the Engineer in connection with the work, or contravene the provisions of the contract, the purchaser may give notice in writing to the contractor calling upon him to make good the failure, neglect or contravention complained of. Should the contractor fail to comply with such notice within a period, in the case of failure, neglect or contravention capable of being made good within that time or otherwise within such time as may in the opinion of the purchaser be reasonably necessary for making it good, then and in such case the purchaser shall have the option and be at liberty to take the work wholly or in part, out of the contractors hand and may carry on the work envisaged in the contract at a price with any other materials, tools, tackle or labour for the purpose of completing the works or part thereof. In such event the purchaser shall without being responsible to the contractor for fair wear and tear of the same be entitled to seize and take possession and have free use of all materials, tools tackle or other things which may be on the site, for use at any time in connection with the work to the exclusion of any right of the contractor over the same and the purchaser shall be entitled to apply and balance sum which may otherwise be then due on the contract by him to the contractor or such part thereof as may be necessary. If the cost of executing the work as aforesaid shall exceed the balance due to the contractor fails to make good the deficit, the said materials, tools tackle, construction plant or other things, the property of the contractor as may not have been used up in the completion of the works, may be sold by the purchaser and the proceeds applied towards the payment of such sale. Any outstanding balance existing after crediting the proceeds of such sale shall be paid by the contractor on the certificate of the Engineer, but when all expenses, cost and charges incurred in the completion of the work are paid by the contractor, all such materials, tools tackle, construction plant or other things not used up in the completion of the works and remaining unsold shall be removed by the contractors. If the proceeds of the above sale of the contractors materials tools and tackle, construction plant etc. are insufficient to cover the executing the aforesaid work, the balance remaining after crediting the proceeds of such sale shall be recoverable from the contractor by encasing the Bank Guarantee available/ any other money payable by the purchase or by action of law.

Notwithstanding anything contained above, the purchaser may determine the contract due to any breach of failure of the contract, without notice before determining the

No. of Correction : _____ Signature of the Contractor
No. of overwriting : _____

contract as above, if in the opinion of the purchaser, the default or defaults committed by the contractor is/ are curable and can be cured by the contractor if an opportunity is given to him, then the owner may issue a notice in writing calling upon the contractor to cure the default within such time as may be due in the event of termination, the security deposit will be forfeited without reference to the contractor and if no amount is available towards security deposit, an identical amount is recoverable from the contractor.

Power to Vary or Omit Work:

No alternation, amendments, omissions, additions or variations of the work herein after referred to as variations, under the contract shall be made by the contract except as directed in writing by the Engineer, but the engineer shall have full power, subject to the provision hereinafter contained from time to time during the execution of the contract by notice in writing, to instruct t the contractor shall carry out such variations and be bound by the same conditions as far as applicable, as through the said clarifications occurred in the contract, if any suggested variations would , in the opinion of the contractor, if carried our, percent him from fulfilling any of his obligations or guarantees under the contract, he shall notify the Engineer thereof within 10 days in writing and the Engineer conforms his instructions, the contractor's obligations and guarantees shall be modified to such as extent as may be justified. In the absence of any such notification, the contractor shall be bound to carry out the suggested variations without any additional financial implication to purchaser and it will amount to an absolute waiver of any claim whatsoever.

Settlement of Dispute:

Except as otherwise specifically provided in the contract all dispute concerning questions of facts arising under the contract shall be decided by the Engineer subject to a written appeal by the contractor to the Engineer, whose decision shall be final to the parties hereto. Any dispute or difference including those considered as such by only one of the parties arising out of or in connection with the contract shall be to the extent possible settled amicably between the parties. If amicable settlement cannot be reached them unresolved dispute issue may be settled by arbitration as provided subsequently.

Termination of Contract:

Notwithstanding anything contained elsewhere in this contract, if at any time during the terms of this contract, the plans of the Government of India and of the State Government change for any reason, the purchaser shall have the right to terminate the contractor by notice to the contractor by a registered letter. In respect of such changes the materials those are complete as ready for transportation within thirty- (30)-days after such notice, purchaser agrees to accept delivery thereof at the contract price and terms. In the case of the reminder of the undelivered materials, the purchaser may elect

- i. To have any part thereof complete and take delivery thereof at the contract price and
- ii. To cancel the reside (if any) and pay to the contractor a prorata amount of the contract price based upon the state of completion to be certified by him.

No. of Correction :
No. of overwriting :

Signature of the Contractor

The contractor shall deliver all such materials in process of manufacture to the purchaser and shall return to the purchase any funds remaining to the purchaser's credit. The purchaser shall not make any payment for any material not yet in process of manufacture on the date of notice of cancellation is received.

Deductions from Contract Price:

All costs, damages or expenses which the purchaser may have paid, for which under the contract the contractor is liable, may be deducted by the purchaser from any money due or becoming due by him to the contractor under the contract, or may be recovered by action of law or other wise from the contract. Further all legal and statutory deductions will be made and the contractor is not entitled to any reimbursement or claim whatsoever other than only a tax deduction certificate.

In the event of recovery to the necessary extent becoming impossible owing to insufficiency of the performance bond and withheld amounts, the balance due to the purchase, may be recovered in any way the purchaser may deem fit.

Earnest Money:

- i. The tenderer shall be required to submit earnest Money to be deposited as indicated in the NIT.
- ii. The Bid Guarantee offered shall be in one of the following alternative forms:
 - a) A crossed Bank Draft in favour of IDCO, Bhubaneswar.
 - b) An irrevocable Bank Guarantee of any Nationalised / Schedule Bank OPERABLE AT ITS BRANCH AT BHUBANESWAR ONLY in favour of IDCO, as per the proforma.
- iii. The Bank Guarantee should be kept valid up to 8 (eight) months from the date of opening of tender as per tender specification.
- iv. Earnest Money shall be forfeited in case of withdrawal/ modification of an offer within the validity period as required in the NIT/Tender specification after opening of tender. EMD shall be forfeited in case of non-acceptance of LOI / WO within stipulated period. EMD shall be forfeited in case of non-acceptance of LOI / WO within stipulated period.
- v. In case of tenders not accepted, the earnest money shall be refunded within 30 days of the accord of order/ contract to the successful tenderer.
- vi. Bids not accompanied by the required Bid Guarantee in accordance with the clause above, or if the Bid Guarantee is of inadequate value of the tender will not be entertained and shall be returned unopened.
- vii. Bidders are to attend the techno-commercial discussion whenever called by the owner. In case the bidder fails to attend the techno-commercial discussion, the same will be treated as violation of tender condition and the EMD may be forfeited with rejection of the offer.

Security Deposit:

The successful tenderers shall be required to submit security deposit for faithful execution of the contract at the rate of 10% (TEN PERCENT) OF THE CONTRACT VALUE in shape of Bank Guarantee from any Nationalised Bank operable at its branch at Bhubaneswar

No. of Correction :
No. of overwriting :

Signature of the Contractor

only VALID UP TO ONE MONTH AFTER THE COMPLETION OF CONTRACT PERIOD. In the event of default on the part of the contractor in the faithful execution of contract the security deposit shall be forfeited by an order of the purchaser. The forfeited of security deposit shall be without prejudice to any other rights arising or accruing to the purchaser under relevant provision of contract line L.D Negligence, termination etc.

Performance Bond:

The contractor shall furnish a performance bond as a guarantee for due performance during the guarantee period by way of a Bank Guarantee from any Nationalised Bank operable by its branch at Bhubaneswar to be kept valid for 12 months after completion of contract in all respects equal to an amount at a rate 10% (TEN PERCENT) of the total contract price for faithful filling the terms of guarantee for a period of 12 MONTHS AFTER SUCCESSFUL COMPLETION OF WORK. If during the contract period the bid amount gets reduced on account of any recoveries of otherwise the contractor shall furnish a bond covering the short fall to bring it to 10% of the contract value.

Extension of Time:

The application for extension of time is to be given to the owner through the Engineer and the owner may authorise the extension of time after considering the due merits. Whenever the owner grants extension of time the same shall be on the existing terms and conditions of the contract and without financial liability to the owner. The contractor in any case shall have no claim whatsoever for any of compensation on account of any delay attributable to any one.

Erection of the Materials:

The contractor shall be responsible for complete installation of the equipment materials required under the scope of contract. The contractor shall provide all equipment, tools, scaffolding and minor civil works required for safe transportation and erection.

All the materials and/ or equipment after receipt at site shall be checked and verified against shipping documents and all claims against loss or damage in transit shall be intimated to the owner. All insurance charges such as transit insurance, storage insurance and handling insurance charges shall be borne by he contractor. The materials and / or equipments shall remain under the custody of the contractor until the owner takes up the plant / installation as a whole after completion of the work. The contractor shall take adequate steps to ensure safety of such materials and/ or equipment. Necessary stores receipt certificates shall be issued to the owner after the stores are checked and certified. No materials and/ or equipment pertaining to the contract shall be removed from site without the consent in writing of the owner. The contractor shall be responsible for obtaining the correct reference lines for purchases of fixing the alignment of various equipment and/ or materials.

No. of Correction :
No. of overwriting :

Signature of the Contractor

Regulation of Local Authorities and Status:

The contractor shall comply with the rules and regulations of local authorities during the performance of his field activities. He shall also comply with the Minimum Wages Act, 1948 and the payment made there under in respect of any employee of workmen employed or engaged by his sub-contractor.

The contractor shall get the entire installation System inspected and cleared by the IIT, Chandrasekharpur, Bhubaneswar.

Manufacture's Supervision:

The contractor may be required to work under the supervision of the manufacture's Engineer, where the contractor is not the manufacture. However, this will not relieve the contractor of his responsibility of the correctness of quality of workmanship shall be responsible for the correctness of the positions, levels and dimensions of the works according to the drawing, notwithstanding that he may have been assisted by the Engineer in setting out the same.

Taking Over:

Upon successful completion of all the tests to be performed at site on equipment and / or materials and systems supplied and erected by the contractor the Engineer shall issue to the contractor a taking over certificate as a proof of the final acceptance of the equipment system. Such certificate shall not relieve the contract of any of his obligation which otherwise survive by terms and condition of the contract issuance of such certificate.

Engineer's Decision:

In respect of all materials, which are left to the decision of the Engineer, the Engineer shall if so required to do so by the contractor given in writing a decision thereon to the contract. All decisions of the Engineer shall be binding on the contractor.

Completion Certificate & Final Certificate:

When the contractor fulfils his obligation under the contract he shall be eligible to apply for completion certificate in respect of the work by submitting the completion documents along with such application for completion certificate.

The owner of his representative shall normally issue to the contractor the completion certificate within one month after receiving an application there of from the contractor after verifying from the completion documents and satisfying that the work has been completed in accordance with and as set out in the construction and erection drawings, and the contract documents. The contractor, after obtaining the completion certificate is eligible to present the final bill for the work executed by him under terms of the contract.

No. of Correction :
No. of overwriting :

Signature of the Contractor

Completion Certificate:

Within one month of the completion of work in all respects, the contractor shall be furnished with a certificate by the owner or his representative of such completion but no completion certificate shall be given nor shall the work be deemed to have been executed until all scaffolding, surplus materials and rubbish are cleared off the site completely nor until the work shall have been measured by the Engineer, whose measurement shall be binding and conclusive, the binding and conclusive, the work will not be considered as complete and taken over by the owner until the temporary works and staff colonies etc. constructed are removed and work site cleared to the satisfaction of the owner.

If the contractor shall fail to comply with the requirement of this clause on or before the date fixed for the completion of the work, the Engineer may at the expense of the contract remove such scaffolding, surplus materials and rubbish and dispose off the same as the things fit and clean off such dirt as aforesaid, and the contractor shall forth will pay the amount of all expenses so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Completion certificate shall be in 3 parts as follows:

- (a) Physical/ Mechanical completion work.
- (b) Satisfactory completion of commissioning of equipment with load.
- (c) Satisfactory completion of guarantee.

The contractor shall clearly indicate the three dates separately for completion documents / to form the completion documents.

- i) The technical documents according to which the work was carried out.
- ii) Three sets of construction drawings showing therein the modification corrections made during the course of executing and signed by the Engineer.
- iii) Completion certificate for embedded and Covered-up works.
- iv) Certificates of final levels as set out for various works.
- v) Certificates of tests performed for various works.
- vi) Materials appropriation statement for the materials issued by the owner for the works and list of surplus materials returned to the owner's store duly supported necessary documents.
- vii) Physical/Mechanical completion work.
- viii) Satisfactory completion of commissioning of equipment with load.
- ix) Satisfactory completion of guarantee.

Miscellaneous:**Entire Agreement:**

These General Conditions together with the specifications, tender drawing and guaranteed technical particulars, tender data with subsequent agreed modification thereof shall constitute the entire Agreement between the parties in respect of the

No. of Correction :
No. of overwriting :

Signature of the Contractor

subject matter thereof. No variation or modification of the contract or modification of the contract of waiver of any of the terms and conditions thereof shall be deemed valid unless in writing and signed by the parties hereto.

General Conditions of Contract, the tender specification and other contract/tender documents are to be taken as mutually explanatory to one another. However, in case of conflict between these documents, the technical specification, special conditions of the contract and general condition of the contract shall have precedence in that order.

Endorsement of Terms:

The failure of either party to endorse at any time of the provisions of the contract or any rights in respect thereof or to exercise an option herein provided shall in no way be construed to be a waiver of such provisions, rights of options or in any way to effect the validity of the contract. The exercise by either party of any of his herein shall not preclude either party from exercising the same or any other it may have hereunder.

Contract Labour Regulation & Abolition:

The contractor shall be responsible for following all statutory obligations under Contract Labour (Regulation & Abolition) Act, 1970, E.S.I and Provident Funds Acts as applicable for their labour and staff engaged in executing this work. The contractor will also keep purchaser indemnified against all claims and disputes arising out of death or injury to their workmen and staff. It will be necessary for the contractor to ensure that their workmen follow proper safety measures to avoid accident / damage / loss to life and property. Their workmen when working at any height must use approved safety belts. Charges for above are deemed included in the quoted rates and accepted amount. The bidder shall furnish the photocopy of their valid registration with Provident Fund Department.

Recovery of Damage:

Nothing contained in the conditions or in any other part of this contract shall be construed as preventing the purchaser from the contractor any damage to which the purchaser may be entitled in law as a consequence of any breach by the contractor of any of the terms of the contract.

Completeness of Equipment / Installation:

The equipment / installation shall be complete in every respect with all mountings fixtures and standard accessories which are normally even though not specifically detailed in the specification.

The contractor shall be eligible for any extra payment in respect of such mounting, fittings and fixtures and accessories which are needed for safe operation of the equipment / installations as required by applicable codes though they may not have been included in the contract. The various equipment and / or materials supplied this contract shall be subject to the purchaser/owners approval.

Time Schedule:

Time is the essence of the contract and the contractor shall be responsible for performance his works in accordance with the specified construction schedule. The offer should clearly indicate monthly/ quarterly schedule of deliveries, date of commencement and completion of supply erection testing and commissioning against that indicated in the NIT / construction schedule. If any time the contractor failing behind schedule he shall take necessary action to make good for such delays by increasing his work to comply with the schedule and shall communicate such actions in writing to the Engineer satisfying that the action will compensate delay. The contractor shall however not be responsible for provision of additional labour and/or materials or supply of any other services to the contractor except for the co-ordination of works. The entire scope of work shall be completed within 60 DAYS FROM the date of issue of supply order.

Safety Regulations:

Without prejudice to the general obligations under the statutes the contractor shall ensure the safety of all the workmen, materials and equipment either belonging to him or to others working at site.

Subletting of Contract:

The contractor shall not without the consent in writing of the purchaser, which shall not be unreasonably withhold, assign or sublet his contract of any substantial part thereof other than for raw materials, for minor details, or for any part of the works of which the markers are named in the contract, provided that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

For components/equipment procured for the purpose of the contract, after obtaining the written approval of the owner, the contractor's purchase specifications and inquiries shall call for quality plans to be submitted by the suppliers along with their proposals. The quality plans called for from the vendors shall set out during the various stages of manufacture and installations, the quality practices and procedures followed by the vendor's quality control organisation, the relevant reference documents/standards used, acceptance level, inspection of documentation raised, etc. Such quality plans of the successful vendors shall be discussed and finalised in consultation with the Engineers and shall form a part of the purchase order/ contract between the contractor and the vendor. Within 3 weeks of the release of the same purchase order /contracts for such bought out items/ components a copy of the same without price details but together with detailed purchase specifications, quality and delivery conditions shall be furnished to the Engineer by the contractor.

Force Majeure:

Any delays in or failure of the performance of either parties thereof shall not constitute default here or give rise to any claims for damages, if any, to the extent such delays or failure of performance caused by occurrences such as acts of God or the public enemy, expropriation or confiscation of facilities by Government authority, compliance with any order or request of any Government authorities, act of war, rebellion, sabotage, fire,

No. of Correction :
No. of overwriting :

Signature of the Contractor

floods explosions, riots or illegal strikes, provided always that such occurrences result in impossibility or performances of the contract. Only events of Force Majeure, which impedes the execution of the contract at the time of its occurrence, shall be taken into cognisance.

Language and Measurement System:

All documents pertaining to the contract including specifications schedules, notices, correspondence operating and maintenance instructions drawings or any other writing shall be in English Language. All measurements, location marking and drawings shall be in Metric Units.

Materials and Workmanship:

All materials used in the manufacture of these equipments shall be selected from the best available for the purpose, considering strength, durability and best engineering practice. Liberal factors of safety shall be used through out the design and especially in the design of all parts subject to alternation stresses or shocks. All the work shall be performed and completed in a thorough workmanship like manner and shall follow the best modern practice in the manufacture of high-grade equipment notwithstanding any omissions in the specification. Castings shall be free blow holes, flaws, cracks of other defects and shall be smooth, close grained and of true forms and dimensions. No plugged or filled up holes or other defects will ordinarily be allowed. Such castings are liable to be rejected.

However, the contractor may rectify minor casting defects be welding or other method in accordance with the standard manufacturing practice provided such rectification does not affect the strength of the casting or impair the efficient working of the plant and proper approval of the purchaser is obtained for the same.

Facility to the Contractor:

The purchase / owner will at his own discretion and convenience and for the duration of the execution of the work make available near the site land for construction of contractors field office, go-downs, workshop and assembly yard required for the execution of the contract. The contractor shall at his own cost construct all these temporary buildings and provide suitable water/ electricity and sanitary arrangement after obtaining approval from the Engineer. On completion of the works undertaken by the contractor he shall remove all temporary works erected by him and have the site cleared as directed by the Engineer. If the contractor fails to comply with these requirements, the Engineer at the expense of the contractor will remove such surplus and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid and the contractor shall forthwith pay the amount of all expense so incurred and shall have no claim in respect of any such surplus materials disposed of as aforesaid. But the purchaser / owner reserves the right to ask the contractor at any time during the pendency of the contract to caveat the land by giving 7 days notice on security reasons or national interest or otherwise a token rent of Rs.100.00 per month per hectare a part thereof shall be charged for the land so occupied. Electricity and drinking water at

No. of Correction :
No. of overwriting :

Signature of the Contractor

normal charges will be supplied at one point. The cost of distribution if any shall be borne by the contractor.

Modification Prior to the Date of Tender Opening:

The purchaser / owner reserves the right to revise or amend the tender specifications prior to the date notified for opening of the tender and also the right to postpone the date for presentation and opening of tender without assigning any reason, whatsoever.

Clarification Desired by the Tenderer:

1. The tenderer, before submission of the tender, should seek for any clarification with regard to the specifications. No correspondence on this account will be entertained once the tenderer has submitted the tender.
2. The contractor will be responsible for any loss theft, destruction and deterioration of quality of any materials when it is in the storage under the custody of the contractor. A custodian certificate is to be issued by the firm to the owner. The purchaser reserves the right to inspect the materials under the custody of the contractor from time to time. The contractor will indemnify the owner for any loss arising due to any reason whatsoever of the materials during storage under the custody of the contractor.
3. The contractor will make good of the loss at his own cost and arrangement without waiting for settlement of claim from insurance of any other Agencies.

Consignee:

Sri Kushal Chandra Mohanta, Assistant Manager (Electrical), Electrical Division, IDCO, IDCO Towers, Janapath, Bhubaneswar - 22 shall be the Consignee.

Jurisdiction of Court:

Dispute / Litigation if any, arising out of this contract deemed to have been entered into at Bhubaneswar shall be under the jurisdiction of Orissa High Court.

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No. of Correction :
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Signature of the Contractor

TECHNICAL BID

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No. of overwriting :

Signature of the Contractor

**DETAILED SPECIFICATION OF ONE NO. SILENT TYPE 250 KVA
DIESEL GENERATING SET FOR MCA BUILDING AT CUTTACK.**

The one number 250 KVA Diesel Generator shall not run in parallel Generating sets should be designed as indicated to give required output and should generally include the following :

ENGINE :

The Diesel Engine shall be water-cooled type and suitable for running at least 72 hours continuously giving the required BHP at 1500 rpm in worst ambient conditions mentioned in the specification. It shall use HSD as fuel. It shall generally be in accordance with BS-5514 Class of Governing AO. The engine shall be capable of taking an over load of 10% for one hours during any 12 continuous hours running. Suitable starting arrangement shall be provided. All tools and tackles required for maintenance of the engine shall be supplied along with the engine. The following items shall be included with the engine.

1. Suitable Turbo charger using waste energy.
2. 24V electric starting system as applicable complete with starter gearing, starter motor, battery charging alternator with in built regulator and battery. In built battery charger for charging of battery during idle period of D.G. Sets
3. Radiator, cooling fan not more than 915 mm diameter and water circulating pump of high performance for efficient cooling. Maximum Radiator height shall be 1830 mm from ground level.
4. Instrument panel with the following gauges :-
Start and Stop Push Button.
Lubricating Oil Pressure Gauge.
Water Temperature Gauge
Battery Charging Ammeter
Fuel Level Indicator
Tachometer-cum-Hour Meter (Mechanical)
5. Flywheel with suitable housing
6. Flexible coupling with safety guard
7. Centrifuge, gear type pump, filter and cooler for lubricating oil
8. Double bowl fuel oil filter, pre filter, water separator
9. BOSCH in- line fuel injection system complete with "P" type injector pump, nozzle electronic / Mechanical governor with "AO" class of Governing as per BS5514/ISO 3046.
10. Fuel shutdown solenoid 24VDC
11. Air Filter
12. Residential type silencer
13. Engine protection unit with safety control for low lubricating oil pressure and high water temperature. It shall provide audio alarm and visual indication with

No. of Correction :
No. of overwriting :

Signature of the Contractor

automatic shutdown. Audiovisual indications for the above shall be provided on the main control panel.

14. Standard oil resistant flexible hoses connection for fuel system.
15. Exhaust flexible pipe with necessary flanges, connection and heat insulation.
16. Anti vibration mounting pads.

ALTERNATOR :

The AC alternator shall be rated for 3-Phases, 4-wire, 415V, 50Hz operating system. It shall be rated for 250 KVA capacities running at 1500 rpm with IP-21 degree of protection. It shall be brush-less type and capable to catering load upto 0.8 (lagging) power factor. It shall be self regulated, self excited, screen protected drip proof and fitted with end shield, ball/roller bearings etc. It shall be provide with class "F" or "H" insulation. The band of voltage regulations shall be limited to Plus Minus 2.5% of the mean voltage. The alternator shall generally confirm to BS: 2163/IS: 4722.

ACOUSTIC ENCLOSURE

The Diesel Generating set shall be housed inside a factory built, high quality, ready to use acoustic enclosure. The enclosure shall be so designed that the temperature inside the enclosure shall not be more than 7 degree centigrade above the ambient. The design of enclosure shall be duly approved and guaranteed by the engine manufacture. The noise level, when the DG is running on full load with acoustic enclosure closed should comply to the requirements of Pollution Control Board and also satisfy the latest Statutory Regulation and norms. It shall adhere to all mandatory noise regulation norms.

The enclosure shall be fabricated out of mild steel components. Proper clearances in all sides of the DG set shall be provided for easy maintenance. The enclosure shall be duly treated for degreasing, pickling, phosphating and passivation. Its surfaces shall be finished with powder coating/epoxy painting. A viewing window shall be provided to monitor the control panel /instrument panel. The door openings of the enclosure shall be sliding type or hinged type. An Emergency STOP push button shall be provided so that the DG can be turned "OFF" locally without opening the enclosure window. Arrangement to shut the engine in case of high temperature inside the enclosure, shall be provided as a safety measure. There shall be provision of proper illumination inside the enclosure to facilitate maintenance of the DG set.

The insulating materials, such as rock wool/mineral wool etc. used for the purpose shall have high sound absorption quality, high temperature withstand and high fire retardant capability. It shall confirm to IS:8183 . Sound attenuators/down stream silencers may be provided at all opening for air inlet/outlet to facilitate flow of air with low noise.

No. of Correction

Signature of the Tenderer

No. of Correction :
No. of overwriting :

Signature of the Contractor

AMF PANEL:

The Panel shall be fabricated out of sheet steel and have hinged doors removable bottom gland plate, incoming and outgoing bus bar arrangement and required protections with metering arrangements. It shall be dust proof, vermin proof, totally enclosed suitable for indoor use with IP 41 class of protection. The cable facility shall be provided from bottom.

The panel shall primarily consist of 400A FP MCCB of 25 kA with O/C-E/FS/C protections. The incoming of the MCCB shall be directly fed from the alternator through armoured aluminum PVC cable. Arrangement for termination of two nos. 3 ½ c x 185 sqmm PVC insulated PVC sheathed 1100 Volt grade armoured aluminum cable shall be made for the incoming and outgoing side of the MCCB. The control panels shall be complete with the arrangement for automatic ON/OFF of DG Sets. Following measuring instruments shall be fitted to the control panel.

1. **One number 3-Phase 4-Wire CT operated electronic KWH meter with required CT and sealing and locking arrangement in a separate tamper proof enclosure. It shall have a viewing window for taking the meter reading.**
2. One number 96 x 96mm size 0-500 volt AC Voltmeter with Selector Switch and Control Fuses.
3. One number 96 x 96mm size 0-250 Amp AC Ammeter with required Current Transformers and Selector Switch.
4. One number Frequency Meter.
5. Push Buttons for Engine Start, Engine Stop, Reset.
6. Window Fault Annunciation for load on mains, load on set, set running, DC Control on, start failure, overload, DC control ON, low oil pressure, high water temperature.

The make of panel components shall be as follows :

1.	FP MCCB of 25 kA, with O/C-E/F-S/C protections	L&T / Merin Gerin /Siemens / Schnieder
2.	A.C. Voltmeter / Ammeter / Frequency Meter / Power Factor Meter	AE / IMP / MECO / Rishab
3.	Electronics KWH Meter suitable for Three Phase 4-wire system	Alstom / L&T / Conzerv
4.	Selector Switch	KAYCEE / Saltzer
5.	Current Transformers	MECO/ KAPA

No. of Correction :
No. of overwriting :

Signature of the Contractor

GUARANTED TECHNICAL PARTICULARS

(To be furnished by the bidders)

(A)	<u>Alternator</u>		
01.	Name of Manufacturer	:	
02.	Brand Name	:	
03.	Factory Address	:	
04.	Reference Standard	:	
05.	Frequency	:	
06.	Rated Voltage	:	
07.	No of Phases	:	
08.	Rated Speed		
a)	No Load	:	
b)	Rated Load	:	
09.	Phase Sequence (Viewed from driving end)	:	
10.	Power Factor	:	
11.	Rated Output (KW/KVA)	:	
12.	Rated Current	:	
13.	Direction of Rotation	:	
14.	Excitation System	:	
15.	Duty Type	:	
16.	Class of Insulation	:	
17.	Temperature Rise	:	
18.	Efficiency at Rated Voltage and Frequency and 0.8 pf		
a)	In Full Load	:	
b)	1/3 Load	:	
c)	¼ Load	:	

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19.	Short Circuit Rating (Peak)	:	
20.	Over Speed Limit	:	
21.	Limits of Vibration	:	
22.	Type of Enclosure	:	
23.	Cooling System	:	
24.	Variation in		
a)	Voltage	:	
b)	Frequency	:	
25.	Fly Wheel Effect of Rotating Parts	:	
26.	Cyclic Irregularity	:	
27.	Irregularity of Wave Form %	:	
28.	Overload Withstand Capacity		
a)	Momentary	:	
b)	Intermittent	:	
c)	Sustained	:	
29.	Motor Starting Ability(Current/Duration)	:	
	<u>PRIME MOVER :</u>		
1.	Name of The Engine Manufacturer	:	
2.	Type of Engine	:	
3.	Model and Number of Cylinders	:	
4.	IS Rating		
a)	Rating A (With Overload)	:	
b)	Rating B (Without Overload)	:	
5.	Rating at Site Condition	:	
6.	Direction of Rotation	:	

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7.	No and Arrangement of Cylinders	:	
8.	Whether Two Stroke or Four Stroke	:	
9.	Bore (mm)	:	
10.	Stroke (mm)	:	
11.	Cubic Capacity (Litres)	:	
12.	Nominal Compression Ratio	:	
13.	BMEP Developed	:	
14.	Mean Piston Speed	:	
15.	Muffler (Silencer) type	:	
16.	Filter Type and Make	:	
a)	Air	:	
b)	Fuel	:	
17.	Recommended Fuel Oil Specification	:	
18.	Fuel Oil Tank Capacity	:	
19.	Lubricating Oil Specification	:	
20.	Mode of Starting, Apparatus Req'd.	:	
21.	Specific fuel consumption under standard reference conditions as per I.S. 10000 part-II	:	
a)	At rated output	:	
b)	At 110% of rated load	:	
c)	At 75% of rated load	:	
d)	At 50% of rated load	:	
e)	At 25% of rated load	:	
22.	Lubricating oil consumption at 100% load litre of Kg / engine operating hour.	:	

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23.	Weight of Engine	:	
24.	Overall Dimension of Engine	:	
25.	Performance Curves as per IS-10000 (Part-IV) 1980 at standard reference condition.	:	
26.	Accessories on Engine as tested and for which a power allowance has been made in the manufacturer calculation of site rating.	:	
27.	Voltage of Electrical system	:	
28.	List of Equipment and Tools that will normally be supplied.	:	
29.	List of supplementary equipments	:	
30.	Schedule of recommended maintenance and overhaul periods	:	
31.	Maximum permissible back pressure in the exhaust system and maximum permissible intake depression.	:	
32.	Method of cooling and capacity of the cooling system with specific rates of water and oil circulation.	:	
33.	The maximum load that can be suddenly applied to the engine while it is running it is at full rated speed, at no load and at normal running.	:	
34.	The transient and permanent speed changes that will result from the application of this load.	:	
35.	The transient and permanent speed rise resulting from full load being thrown off.	:	

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36.	The transient and permanent speed change resulting from a change of load, both off and on, by all steps of 25 percent of the rated full load.	:	
37.	The steady state speed band recovery time to this speed band from all the conditions stated above.	:	
38.	Aspiration	:	
	<u>ACOUSTIC ENCLOSURE</u>		
1.	Name of Acoustic	:	
2.	Enclosure Material	:	
3.	Insulation Materials	:	
4.	Type of Shutters	:	
5.	Overall Dimension L x B x H	:	
6.	Noise Level to be Achieved	:	
7.	Maximum Rise in inside temperature above ambient at full load	:	
8.	Provision of Illumination inside the Enclosure	:	
9.	Fuel Tank Capacity	:	
10.	Handling / Lifting Facilities	:	

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PRICE BID

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BOQ FOR SUPPLY, ERECTION, TESTING, COMMISSIONING OF 250KVA SILENT TYPE DG SET COMPLETE WITH ALL ACCESSORIES FOR MCA BUILDING AT CUTTACK.					
SL No.	Description of Work	Qty.	Unit	Rate in Rs.	Amount in Rs.
1	Design, Supply, Erection, Testing and Commissioning of 250 KVA, 415 Volt, 50 Hz, 3 Phase Silent type DG sets complete with AMF Panel having arrangement for termination of 2 nos. 3.5 c x 185sqmm Armoured Aluminium PVC cables at incoming and outgoing sides. Control Cables, Batteries, Battery Charger, Fuel Tank, Fuel Piping, Silencer, Exhaust Piping, Thermal Logging, Asbestos Rope Insulation, Cladding etc. complete as required.	01	Set		
	TOTAL :				
(Rupees.....only)					

NB: DG Set will run continuous for Six Hours towards Testing and Commissioning purpose and the fuel for the same should be included in the Offer. No Extra Cost will be given towards Fuel.

Divisional Head(Electrical)

No. of Correction :
No. of overwriting :

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