

6049
24/02/23

Buyer Added Bid Specific Terms and Conditions
(For Biding through GeM Portal)

1. Only manufacturers or authorized dealers are entitled to quote their rates. The bidder should be having relevant Licence of Manufacturer/ Authorized Dealer and such a Registration should be valid as on the date of Bid submission. The manufacturer is required to submit documentary proof to this effect that he is actually a manufacturer. Authorised dealer shall submit documentary proof issued by the concerned manufacturer to this effect that he is a authorized dealer for the quoted item/ items. Manufacturer Authorisation Certificate/Form should be bid specific with OEM details such as name, designation, address, e-mail Id and Phone No. which is required to be furnished along with the bid. Specifications of the product/item should be certified by OEM.
2. The Manufacturer should be in the business of manufacturing of similar equipments for a period not less than 3 Years.
3. The bidder firm must have valid GST Registration Number. TDS on GST will be deducted as per rule.
4. Bidder should have executed the orders of similar items successfully to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency of the State/Central Government in at least one financial year out of last three Financial Years. Proof Attach.
5. A certificate for satisfactory supply of similar items to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency is required to be submitted by the bidder, failing which the Bid is liable to be rejected. The firms are required to submit documentary proof in this regard.
6. The Average Annual Turnover of the firm/ bidder should be 1.5 Lakhs for the Bided / similar items in last three financial years and a certificate from CA should be attached with the bid.
7. Net worth or turnover and installed capacity of the bidder (in case of manufacturer) should be equal to the value of the quantity Bided by the firm for the similar items. The firms are required to submit documentary proof in this regard.
8. FOR:- The Rates should be inclusive of FOR desination anywhere in Haryana at consignee locations at the supplier's risk shall be inclusive of GST, Freight Charges & other taxes/duties etc.
9. DELIVERY PERIOD:- 30 Days at ITIs from the date of placement of supply order.
10. PAYMENT TERMS:- 90% payment will be made by the consignee ITIs within 30 days on receipt of duly inspected and accepted items by the constituted Inspection Committee at consignee destination. Remaining 10% payment will be made after successful working/installation/ demonstration of items at sitewithin duration of 15 days. 100% payment towards petty tools/ equipments/ furniture shall be released after physical delivery and complete installation (if any) of the items in the Institute after due verification /checking and acceptance. Delay Payment does not have any Interest.
11. WARRANTY: As per applicable by the Manufacturers on manufactured goods or minimum three year complete.
12. INSPECTION:- The inspection will be done by the ITI through its authorized representative at the firms premises before dispatch of material. In case, the material offered for inspection by the firm fails to meet the specifications stipulated in Bid/Order/Contract and the samples are rejected by the Inspecting Committee, the Identing Institute will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the ITI will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd and ffinal inspection also, the firm will be liable for penal action including forfeiture of EMD, risk purchase, debarring/ blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.

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Note:- All the annexure from 'Annexure 1 to 16 including annexures/Govt. orders/ notifications are applicable to this present Bid.

Other Terms & Conditions:-

1. Price Fall Clause:

Price fall clause will be as per condition no. 15 of "General Conditions of Supply" as available at **Annexure-9**. The same is that the price quoted in the Bid/quotation or approved in the Rate Contract for the stores shall not exceed in any way the lowest price at which the Biderquote for the supply the stores of identical description to DGS&D, New Delhi/ State Government Institutions/Undertakings/any other person during the delivery period/currency period of the rate contract. If, at any time during the delivery period/currency period, the successful Bider reduces the rates/sale price of the quoted stores to any person at the price lower than the price chargeable under the supply order/ rate contract, the Biders should forthwith notify such reduction and inform this office and the price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of the rates shall stand correspondingly reduced to that level. The successful Biders shall promptly notify the reduction of rates to this office as well as to the concerned Indenting Officer/ Consignees. The Bider shall also give a certificate on their bills that the rates charged by them are not in any way higher to those quoted by them to the DGS&D, New Delhi and other State Government etc., during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments.

2. **Penalty to firm on Delay in delivery:** In case of delay in delivery beyond the delivery period, a penalty amount @ 0.5% of price of supply order for one week (seven days) for the delay of first two weeks and @ 1.0 % per week for the delay of five weeks (35 days) upto a maximum cap of penalty of 6.0% for total delay of seven weeks (49 days) would be applicable for each indented item. Thereafter, DS&D, Haryana could cancel the order in consultation with indenting department and suitable action could be taken against the supplier firm as per DS&D, Haryana latest policy/ instructions. However, if, purchasing department opts, to accept the items beyond seven weeks (49 days) delay, 1.0% penalty per week would continue for any unjustified delay in delivery till the supply is completed.

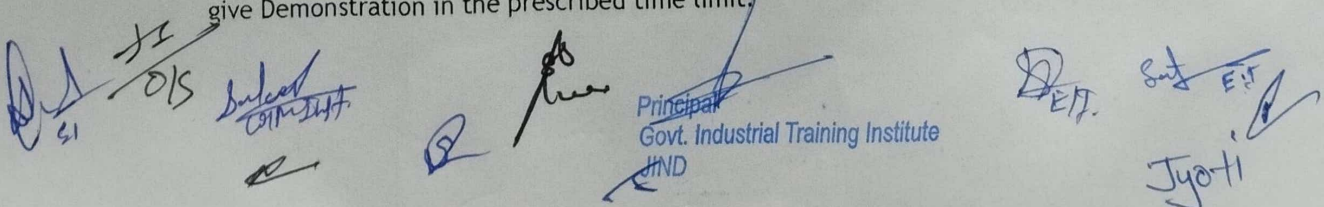
ii) In case of any complaint in the working of indented items during the warranty period, the firm shall attend the same within 48 hours from the time of logging of first complaint call by the concerned consignee/ Govt. ITI and the items must be repaired/ replaced within 72 hours thereafter. The complaint (s) would be logged by the concerned consignee/ Govt. ITI by email in order to keep the proper delivery records. Further in case of failure to repair/ replace faulty item (s) within 120 hours, penalty to the supplier @ Rs. 250/- per day per concerned consignee/ Govt ITI will be applicable from the day & time of lodging the complaint.

3. **Evaluation of Bids:** The procurement committee constituted under STRIVE shall evaluate the Bid with reference to technical requirements and various other commercial criteria given in the Bid Document. Further, the received price list of the asked items subject to the reasonability and comparability prevailing in market. Each item evaluated separately.

4. This BOQ bid is being floated on GeM Portal to call the competitive prices of the asked items, however supply order shall be released/placed by the ITI as per the actual latest requirement of the ITI subject to the reasonability of rates and complete satisfaction.

5. The quantity of items may be increased or decreased.

6. The Bid inviting authority/order placing authority may ask for samples and demonstration of any particular item quoted by the bidders. The bidders shall have to submit samples and give Demonstration in the prescribed time limit.

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7. All Items should be supplied with quality certificate. The ITI may get the items inspected by such person or persons, the competent authority/committee of ITI deems fit and to reject such of these items as in of the opinion do not come up to the specification. The decision of the competent authority/committee of ITI will be final in such cases. The rejected items will be returned on the bidder's cost.
8. The telephonic / return / e-mail complaints regarding fault / mal-functioning/ non-working etc. of the tool / machinery / furniture within warranty period will have to be attended within a week by the supplier & no any extra charges shall be paid to the firm in this regard.
9. In case supplied Items are found not as per specifications, then whole payment will be withheld and shall be released only after receipt of replacement items of desired specifications & quality.
10. Regarding Observation of warning signs of Collusion/Bid Rigging by the bidder firms in various Bidding processes issued by the State Government vide G.O. No. DS&D/Admin/CCI/EA-II/20211083-1283 dated 23.4.2021 will be applicable. (Annexure- 16).
11. Negotiation of Rates

Regarding negotiations of rates, policy issued by the State Government vide G.O. G.O. No.2/2/2010-4-IB-II dated 16.06.2014 (Annexure-5), G.O. No.2/2/2010-4-IB-II dated 09.02.2015 (Annexure-6) will be applicable/if applicable.

12. Concession to MSMEs of State:

The State Government has notified "Haryana State Public Procurement Policy for MSME - 2016" vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 (Annexure-2) and amendment vide G.O. No. 2/2/2016-4IB-II dated 11.12.2019 (Annexure-8) and as amendment vide G.O. No. 2/2/2016-4IB-II dated 13.08.2021 (Annexure-7) which will be applicable in respect of concessions to Haryana based MSMEs and KVIs. For claiming the relevant concession/s like Bid Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof from Government authorities showing that they come under Haryana based manufacturing MSME/KVI units as the case may be e.g. *Entrepreneurs Memoranda in Haryana in bidder's name and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016.

***Note:-** To claim the concessions/benefits under the above policy, the bidder is required to submit SSI Certificate/Manufacturing Entrepreneurs Memorandum (part-II) issued by the Industries Department Haryana in respect of the quoted item /Udhyog Aadhaar Memorandum (UAM)/Udhyam Registration of Haryana based manufacturing enterprises in respect of the quoted item (Ref. Industries & Commerce Department Haryana Memo No. TS/DS&D/11389-A Dated 03.07.2018) and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016 and amendments from time to time.

13. Concession/benefits to Startups/First Generation Entrepreneurs of State:

The State Government has notified "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O. No. 2/2/2016-4I B-II dated 03.01.2019 (Annexure-3) (or as amended from time to time in this regard) which will be applicable in respect of concessions to Startups/First Generation Entrepreneurs of State. For claiming the relevant concession/s like Bid Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof as per the said policy.

14. In case of evidence of cartel formation by the bidder(s), the EMD is liable to be forfeited along with other actions as are permissible to Government like filing complaints with the Competition Commission of India and/ or other appropriate forums.

15. Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms shall be as per procurement guidelines of STRIVE.

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16. **Preference to Make in India:-**The public procurement in the State in reference to "Preference to make in India" shall be governed by Govt. Order No.02/08/2020-4IB-II dated 18.11.2020(Annexure-10)(or as amended from time to time in this regard)
17. **Restriction in Public procurement from bidders of certain Countries:-**The restriction on procurement from bidders from a Country or Countries on grounds of Defense of India or matters directly or indirectly related thereto including National Security shall be governed by Govt. Order No.02/09/2020-4IB-II dated 10.12.2020(Annexure-11)(or as amended from time to time in this regard).
18. **Blacklisting:-** The firm should not be blacklisted/debarred either in Government Departments/Agencies in State of Haryana or Central Government Departments/Agencies etc. as on the date of submission of the bid in the present Bid.
19. **Arbitration Clause:-**The Arbitration if any will be decided as per the provision contained at Sr. No.18 of "Schedule 'B' Conditions of Contract"
20. **Jurisdiction**
All disputes will be settled within the jurisdiction at JIND.
21. No Interest shall be payable on EMD amount, security amount and performance warranty amount.
22. Earnest Money/Security Deposited to this office in previous Bids will not be adjusted towards the present Bid and no request will be entertained in this regard.
23. The EMD will be forfeited, in case Bider withdraws its Bid during the validity of bids OR the successful bidder, who fails to sign the contract agreement.
24. Bidder should give all relevant particulars about every item, such as maker's name, country of manufacture and specifications and brand/markaetc. Apart from this, the bidder should upload the Catalogue/information brochure of the items to be supplied where maker's/brand name, model no., detailed specifications, guarantee/ warrantee information etc. be mentioned.
25. Price: The Bidder shall quote composite price inclusive of Supply. Installation, Testing, Commissioning, Training, all taxes etc.The Price shall be quoted in Indian Rupees Only. The bidder will quote price of the item as per unit of measure where applicable such as per piece/per set.
26. While quoting rates of the different items in the BOQ, the bidder will refer detailed Technical specifications mentioned in the uploaded Specification/Bid Document. The firm must quote the prices of the items strictly as per the asked specifications and the items to be supplied should be of reputed/renowned brand.
27. Notwithstanding anything contained in the Bid,Principal Govt ITI, Jind reserves the right to accept or reject any Bid, and to cancel the bid process and reject the Bid, at any time, without thereby incurring any liability to the affected Bidder or Bidders and without any obligation to inform the participating/affected Bidder(s) the reason for suchdecision.
28. The bidder shall bound to comply all the rules/regulations/guidelines/instructions of the GeM for procurement of asked items mentioned in the bid.
29. Other terms & conditions as contained in various Annexure/ Documents being attached herewithwill form a part of thisBid.
30. Each item evaluted seperately.
31. F.O.R.:- The rates should be F.O.R. destination at supplier's risk.
32. GST: Inclusive.
33. Freight Charges: Inclusive.
34. Delivery Period & Installation: Delivery & Installation of complete material needs to be completed at all locations strictly with in 30 days of order. Failure to deliver stores with in the stipulated period shall result in forfeiture of EMD and vendor shall be blacklisted.
35. Payment: 90% payment will be released with in 15 days after physical delivery of inspected/accepted stores in physically good condition at consignee site. Remaining 10 %

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- will be released after satisfactory installation of the items at the consignee destination.
36. Inspection: The inspection will be done by the indenting department or his authorized representatives at the firm's premises before dispatch of material. In case, the material offered for inspection by the firm fails to meet the specifications stipulated in NIT/Order/Contract and the samples are rejected by the inspection committee, the indenting department will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the indenting department will have the right of increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd inspection also, the firm will be liable for penal action including forfeiture of EMD, risk purchase, debarring/blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.
 37. Warranty: 3 - year on site warranty from the date of installation.
 38. Bid Validity: Validity of prices should be for a period of one year from the date of bid opening.
 39. Only those Financial Bids will be Opened and evaluated which are found to fulfill all the eligibility and qualifying requirements of this tender.
 40. Make in India (MI Content): Minimum 50% local make in India content required. the bidder must upload a certificate from the OEM regarding the % of local content and the details of locations at which the local value addition is made.
 41. Besides terms & conditions recommended by the Department Technical Committee, DGS&D Haryana may incorporate Earnest Money Deposit (EMD), Performance Bank Guarantee (PBG), Security etc in tender as per DGS&D, Haryana rules/policy.

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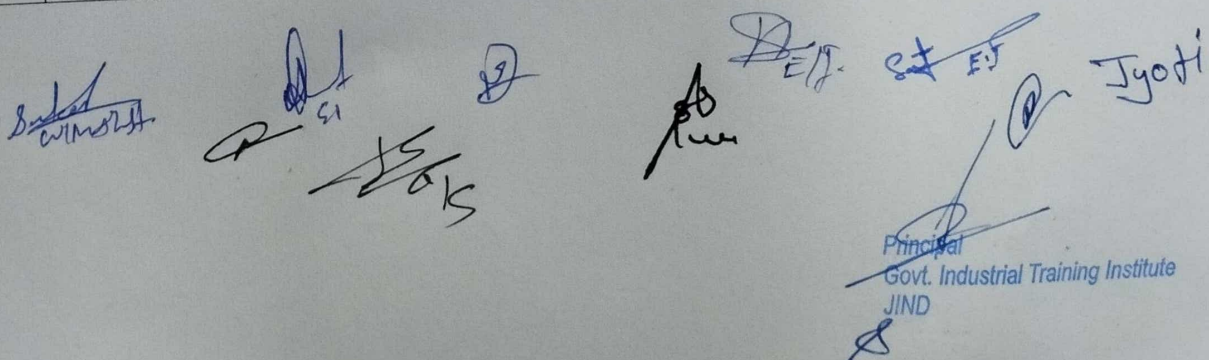
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Note:- Annexure 1-16 mentioned above may kindly be referred in the item specification document uploaded in pdf form
 Technical Bid format / Index for the Technical Bid documents

Sr. No.	Name of the document	Status of submission of proof (Yes/ No)	Remarks
1	All the documents submitted by the bidder as part of its Technical Bid are attested by the signing authority of the bidder.	Yes/ No	
2	An undertaking by the bidding firm in reference to acceptance of all the terms & conditions of the BID with all clauses and annexures.	Yes/ No	
3	Affidavit on Non Judicial Stamp Paper duly certified by the Notary stating that the firm [name of the firm] has not been blacklisted/debarred either in Government Departments/Agencies in state of Haryana or Central Government Departments/Agencies etc. as on the date with the submission of present Bid.	Yes/ No	
4	Only manufacturers / authorized dealers are entitled to quote their rates. The manufacturer/ authorized dealer is required to submit documentary proof to this effect that he/she is actually a manufacturer/authorized dealer.	Yes/ No	
5	The manufacturer/ authorized dealer should have executed the orders of similar items successfully to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency in at least one financial year out of last three Financial Years. The firms are required to submit documentary proof in this regard.	Yes/ No	
6	The bidder should have certificates for satisfactory supply of similar items to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency is required to be submitted by the bidder, failing which the Bid is liable to be rejected. The firms are required to submit documentary proof in this regard.	Yes/ No	
7	The Average Annual Turnover of the firm/ bidder should be as per Bid requirement for the Bided / similar items during last three financial years and a certificate from CA should be attached with the bid.	Yes/ No	
8.	Net worth or turnover and installed capacity of the bidder (in case of manufacturer) should be equal of the value of the quantity Bided by the firm for the same items. The firms are required to submit documentary proof in this regard.	Yes/ No	
9	Acceptance of all the terms & conditions/clauses of the Bid and govt. instructions issued time to time with the Sign. and Stamp of the authorized person.	Yes/ No	
10	Other relevant documents attached	Yes/ No	


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Bank Details of the tenderer for e-payment:-

- a. Bank Account No.: 36435445281
- b. Bank Name.: State Bank of INDIA
- c. Branch Name.: Kaithal Road, Patiala Chowk, Jawahar Nagar
- d. IFSC Code.: SBIN0016671

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Sr. No.	Name of Item	Specification	Qty	Trade
1	Electrical Machine Trainer	<p>Suitable for Demonstrating the construction and functioning of different types of DC machines and AC machines (single phase and three phase). Should be fitted with friction brake arrangement, dynamo meter, instrument panel and power supply unit.</p> <p>Standard Accessories:- DC Shunt motor 2 HP, 220V coupled with AC 3 phase squirrel cage induction motor & AC single phase Induction Motor 1 HP, 220V, AC.</p> <p>DC Shunt Motor Specification:-</p> <ol style="list-style-type: none"> 1. D.C. Shunt Generator in copper winding 2 HP, 220V. 2. Self Exited. 3. Continuous rating, Insulation Class 'B'. 4. Horizontal, Foot mounted. 5. 4 Pole with inter-pole. 6. RPM:- 1500. 7. Current : 7 Amp. Max. 8. Copper terminals brought out in the terminal box for connection (Armature(A1 and A2), Field (F1 and F2)). 9. Dynamically balanced provided lifting bolt and earthing terminal. 10. Air Cooled. <p>AC 3 Phase motor Specification:-</p> <ol style="list-style-type: none"> 1. Squirrel Cage Induction motor 5 HP, 3 Phase, 415 volts, 50Hz, 1440 RPM, in copper winding. 2. TEFC (Totally enclosed fan cooled), class 'F' insulation. 3. Horizontal foot mounted. 4. Copper terminals brought out on terminal box. 5. Air cooled. 6. Self exited. <p>Single Phase Induction Motor Specification:-</p> <ol style="list-style-type: none"> 1. Capacity:- 1 Hp. 2. Cage:- Steel Body. 3. Class: E Class. 4. RPM:- 1500. (Approx.) 5. Shaft:- Single. 6. Current:- 6 Amp. max. 7. Input Terminal:- Phase & Neutral. 8. Input Voltage: 220-240V, AC, 50Hz, Single Phase. 9. Tachometer (ME623B): 1 No. 10. Patchcords: 10 No. 11. Instructional Manual: 1 No. <p>Panel Specification:-</p> <ol style="list-style-type: none"> 1. Panel made of MS sheet of thickness 18 SWG of size 3'x2'6"x6" (depth), front door of panel should be on hinges so that it may be opened, with panel key and lock arrangement. Panel should be duly painted with grey color powder coated paint. <p>The Instrument Panel consists of following accessories:-</p> <ol style="list-style-type: none"> 1. All electrical accessories fitted on the panel should be BIS/ISI certified. 2. 1 no. Voltmeter range 0-600V AC, size 96x96 mm. 3. 3 no. Ammeter range 0-3A AC, size 96x96 mm. 4. 1 no. Frequency meter range 45-55 Hz size 96x96 mm. 5. 2 no. Voltmeter range 0-300V DC, size 96x96 mm. 6. 1 no. Ammeter range 0-10A DC, size 96x96 mm. 7. 1 no. Voltmeter range 0-300V AC, size 96x96 mm. 	1 Pc	Electrician

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		<p>8. 1 no. Ammeter range 0-10A AC, size 96x96 mm.</p> <p>9. DC Drive:- 1 no. Thyristorized DC Drive for speed control.</p> <p>10. Protections:- 1 no. DP MCB 16 Amp. & 1 no. TPN 63 Amp.</p> <p>11. Rotary Switch for Selection of Phase Voltage and phase current (off/R/Y/B/BR) 16 Amp., 440V:- 2 no.</p> <p>12. Motor should be mounted on MS 'C' channel of 75 x 40 x 5 mm thickness of appropriate size duly painted with grey colour enamel paint.</p> <p>Note:- Panel should be supplied with complete wiring and the drawing of wiring should be provided. BTI-30 Terminal should be provided for power supply and motor connections and should be brought out in front of panel.</p>		
2	Single Phase Transformer, core type, air cooled	<p>1. Rated capacity 1 KVA, 1 phase.</p> <p>2. Frequency:- 50 Hz.</p> <p>3. Should be both windings are in copper winding.</p> <p>4. Laboratory type model for conducting various experiments.</p> <p>5. Air cooled.</p> <p>6. Primary Voltage:- 240 volts.</p> <p>7. Secondary voltage 0-110-115-415 volts.</p> <p>8. Enclosed in MS Box 20 SWG with side ventilation.</p> <p>9. Top of box will be of 6 mm, bakelite sheet and the terminals of primary & secondary will be brought out with educational type BTI15 banana type terminals 30 Amps and proper marking.</p>	3 Pc	Electrician
3	AC Phase wound slip ring Motor with starter switch	<p>Motor Rating:-</p> <p>1. Slip ring induction motor 5 Hp, 3 phase, 415 volts, 50 Hz, 1440 RPM, in copper winding</p> <p>2. TEFC (Totally enclosed fan cooled), class 'F' insulation.</p> <p>3. Horizontal foot mounted.</p> <p>4. Copper terminals brought out on terminal box.</p> <p>5. Air cooled.</p> <p>Panel Specification:-</p> <p>1. Panel made of MS sheet of thickness 18 SWG of size 3'x2'6"x6" (depth). front door of panel should be on hinges so that it may be opened, with panel key and lock arrangement. Panel should be duly painted with grey color powder coated paint.</p> <p>The Instrument Panel consists of following accessories:-</p> <p>1. All electrical accessories fitted on the panel should be BIS/ISI certified.</p> <p>2. 1 no. Analog Voltmeter MI Type, size 96x96 mm Sq. 0-500V.</p> <p>3. 1 no. Analog Ammeter MI Type, size 96x96 mm Sq. 0-25A.</p> <p>4. Rotary Switch for Selection of Phase Voltage and phase current (off/R/Y/B/BR) 16 Amp., 440V:- 2 no.</p> <p>5. TPN MCB 63 Amp. 415 volts:- 1 no.</p> <p>6. Rotor resistance type Starter with on/off interlocking and DOL Starter for 5 HP motor:- 1 No.</p> <p>7. Indicating Lamp LED type (for main supply indication) 16 mm size, Red, Yellow, Blue colour:- 1 no. each.</p> <p>8. ICTP Switch 63 Amp:- 1 no.</p> <p>9. Motor should be mounted on MS 'C' channel of 75 x 40 x 5 mm thickness of appropriate size duly painted with grey colour enamel paint.</p> <p>Note:- Panel should be supplied with complete wiring and the drawing of wiring should be provided. BTI-30 Terminal should be provided for power supply and motor connections and should be brought out in front of panel.</p>	1 Pc	Electrician

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4	Synchronous motor with accessories like starter, excitation arrangements	<p>Motor Rating:-</p> <ol style="list-style-type: none"> 1. Synchronous Motor. 3 Hp, 3 phase, 415 volts, 50 Hz, 1440 RPM, in copper winding. 2. TEFC (Totally enclosed fan cooled), class 'B' insulation. 3. Horizontal foot mounted. 4. Copper terminals brought out on terminal box. 5. Air cooled. <p>Panel Specification:-</p> <ol style="list-style-type: none"> 1. Panel made of MS sheet of thickness 18 SWG of size 3'x2'6"x6" (depth), front door of panel should be on hinges so that it may be opened, with panel key and lock arrangement. Panel should be duly painted with grey color powder coated paint. <p>The Instrument Panel consists of following accessories:-</p> <ol style="list-style-type: none"> 1. All electrical accessories fitted on the panel should be BIS/ISI certified. 2. Analog Voltmeter MI Type 0-500 volts, size 96x96 mm:- 1 no. 3. Analog Ammeter MI Type 0-10 amp., size 96x96 mm:- 1 no. 4. Analog Voltmeter MI Type 250 volts, size 96x96 mm:- 1 no 5. Analog Ammeter MI Type 0-5 amp., size 96x96 mm:- 1 no. 6. TPN MCB 63 Amp:- 1 no. 7. Knife switch double pole 16 amp.:- 1 no. 8. 3Φ analog type power factor meter. 9. Rheostat for excitation arrangement. 10. Rotary Switch for Selection of Phase Voltage and phase current (off/R/Y/B/BR) 16 Amp., 440V:- 2 no. 11. Motor should be mounted on MS 'C' channel of 75 x 40 x 5 mm thickness of appropriate size duly painted with grey colour enamel paint. <p>Note:- Panel should be supplied with complete wiring and the drawing of wiring should be provided. BTI-30 Terminal should be provided for power supply and motor connections and should be brought out in front of panel.</p>	2 Pc	Electrician
5	AC Series type motor	<ol style="list-style-type: none"> 1. AC single phase Series Motor, 1 HP, 230 volts, 50 Hz, 15000 RPM, in copper winding. 2. TEFC (Totally enclosed fan cooled), class 'B' insulation. 3. Horizontal foot mounted. 4. Copper terminals brought out on terminal box. 5. Air cooled. 	2 Pc	Electrician
6	AC Squirrel cage Motor with star delta starter and triple pole iron clad switch fuse with Mechanical Load	<p>Motor Rating:-</p> <ol style="list-style-type: none"> 1. AC 3 Phase Squirrel cage induction Motor. 5 Hp, 415 volts, 50 Hz, in copper winding. 2. Full Load Speed: 1410 RPM. 3. Full Load Current:- 8.1 Amp. 4. Insulation class 'B'. 5. Horizontal foot mounted. 6. Copper terminals brought out on terminal box. 7. Provided lifting bolt, earthing terminals. 8. Frame size:- 112 M. 9. Air cooled. <p>Panel Specification:-</p> <ol style="list-style-type: none"> 1. Panel made of MS sheet of thickness 18 SWG of size 3'x2'6"x6" (depth), front door of panel should be on hinges so that it may be opened, with panel key and lock arrangement. Panel should be duly painted with grey color powder coated paint. <p>The Instrument Panel consists of following accessories:-</p> <ol style="list-style-type: none"> 1. All electrical accessories fitted on the panel should be BIS/ISI certified. 2. Analog Voltmeter MI Type 0-500 volts, size 96x96 mm:- 1 no. 	1 Pc	Electrician

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		<p>3. Analog Ammeter MI Type 0-25 amp., size 96x96 mm:- 1 no.</p> <p>4. TPN MCB 63 Amp, 415 volts:- 1 no.</p> <p>5. Automatic star/delta starter for 5 HP motor:- 1 no.</p> <p>6. Indicating Lamp LED type (for main supply indication) 16 mm size, Red, Yellow, Blue colour:- 1 no. each.</p> <p>7. ICTP Switch 63 Amp:- 1 no.</p> <p>8. Rotary Switch for Selection of Phase Voltage and phase current (off/R/Y/YB/BR) 16 Amp., 440V:- 2 no.</p> <p>Note:- Panel should be supplied with complete wiring and the drawing of wiring should be provided. BTI-30 Terminal should be provided for power supply and motor connections and should be brought out in front of panel.</p> <p>Foundation of MG Set:-</p> <p>Motor should be mounted on MS 'C' channel of 75 x 40 x 5 mm thickness of appropriate size duly painted with grey colour enamel paint.</p>		
7	Ceiling Fan Coil Winding Machine	<p>1. Operating Voltage 230V, single phase, 50 Hz, AC supply.</p> <p>2. Winding Speed 1440 RPM.</p> <p>3. Semi Automatic micro controller logic program with both dies.</p> <p>4. AC Voltmeter analog panel type 0-300 volt:- 1 no.</p> <p>5. AC Ammeter analog panel type 0-10Amp:- 1 no.</p> <p>6. Input Power supply indicator.</p> <p>7. Winding motor power 1/8 HP.</p> <p>8. Forward/Reverse push button with indicator.</p> <p>9. Winding Wire size/range: 27-38 SWG.</p> <p>10. Centre Distance:- 190 mm.</p> <p>11. Max. Coil diameter:- 300 mm.</p> <p>12. Reel Carrier: 125 mm length wire spool.</p> <p>13. Automatic break facility.</p> <p>14. Digital counter meter four digit.</p>	3 Pc	Wireman & Electrician
8	Primary Current Injection Unit	<p>1. Operating Voltage 230V, single phase, 50 Hz, AC supply.</p> <p>2. Protection-MCB 16A double pole, and 20A, HRC fuse.</p> <p>3. Output Current- 0-1000A, AC in parallel and 0-500A, AC in series.</p> <p>4. Output Voltage- 3 volt in parallel and 6 volt in series.</p> <p>5. Capacity:- 3 KVA.</p> <p>6. Test Range: 0.001s to 999.999s.</p> <p>7. Duty cycle-2.5mins ON, 10 mins OFF, if in batch test.</p> <p>8. PVC Panel.</p> <p>9. Zero Start Function to prevent the test object from damage the equipment only can be started from zero.</p> <p>10. Digital indicator to Display output Current and voltage.</p> <p>11. Portable Design, suitable for on-site testing.</p> <p>12. Current range selector rotary switch, with complete user manual.</p> <p>13. TN-2561.</p>	1 Pc	Electrician
9	Hydrometer	<p>1. Measuring Range: Specific Gravity 0.990-1.170.</p> <p>2. Size: 250 mm.</p> <p>3. Materials: Glass.</p> <p>4. Rubber Bulb and rubber tube quality should be high.</p> <p>5. Glass Tube diameter 25 mm.</p> <p>6. Lead piece should be bottom of the float.</p>	4 Pc	Electrician
10	3-Point D.C. Starter	<p>1. For 2.5KW DC Motor.</p> <p>2. With NO volt coil & Over Load protection.</p> <p>3. With Brass Contacts.</p> <p>4. Carrying Handle.</p> <p>5. BTI-30 Terminal should be provided for power supply, motor connections should be brought out in front of starter.</p>	2 Pc	Electrician
11	3-Point D.C. Starter	<p>1. For 2.5KW DC Motor.</p> <p>2. With NO volt coil & Over Load protection.</p>	2 Pc	Electrician

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		<p>3. With Brass Contacts. 4. Carrying Handle. 5. BTI-30 Terminal should be provided for power supply. motor connections should be brought out in front of starter.</p>		
12	Electric Induction Plate	<p>1. Operating Voltage 230 volt, 50 Hz, AC Supply. 2. Power 1500 Watt. 3. LCD Display and touch control panel. 4. Induction Type cook top. 5. Size 22.2x15.7x7.8 inches.</p>	4 Pc	Wireman
13	Motor-Generator (AC to DC)	<p>Motor-Generator (AC to DC) Squirrel Cage Induction Motor with star delta starter and directly coupled to DC shunt generator and switch board mounted with regulator, air breaker, ammeter, voltmeter, knife blade switches and fuses, set complete with case iron and plate, fixing bolts, foundation bolts and flexible coupling. Induction Motor rating: 5 HP. 415(output voltage varies 110-440 V), 50 cycles, 3 phase. DC Shunt Generator rating: 3 KW, 250V</p> <p>Motor Specification:-</p> <ol style="list-style-type: none"> 1. Squirrel cage Induction motor copper wound 5 H.P. 415 volts, 3 phase, 50Hz, 4 pole, in copper winding. 2. Full load speed 1430 R.P.M.. 3. Full load current 11.4 amp. 4. Insulation class 'B' 5. Horizontal foot mounted. 6. Copper terminals brought out in the terminal box for connection. 7. Provided lifting bolt, earthing terminals 8. Motor Frame size: 132S 9. Air cooled <p>Generator Specification:-</p> <ol style="list-style-type: none"> 1. D.C. Compound generator 3 K.W. 220 V. 2. Self excited 3. 1440 R.P.M. 4. 4 pole with inter-pole. 5. Continuous rating, Insulation class 'B'. 6. Horizontal. Foot mounted. 7. Dynamically balanced provided lifting bolt and earthing terminal 8. Air cooled 9. Copper terminals brought out in the terminal box for connection. <p>Panel Specification:- Panel made of MS sheet of thickness 18 SWG of size 3'6"x3'x6" (depth), front door of panel should be on hinges so that it may be opened, with panel key and lock arrangement. Panel should be duly painted with grey color powder coated paint. The Instrument Panel Consist of following accessories:- All electrical accessories fitted on the panel should be BIS/ISI certified. (AC side) :-</p> <ol style="list-style-type: none"> 1. Voltmeter 0-500 volts, 96 x 96 mm : 1 no. 2. Ammeter 0-15 Amp., 96 x 96 mm : 1 no. 3. Automatic STAR / DELTA Starter 5 HP, 415 volts: 1 no. (contact type 8 point) 4. TPN MCB 63 Amp, 415 volts : 1No. 5. Indicating lamp LED type (for main supply indication) 16 mm size, Red, Yellow, Blue colour : 1 no. each 6. 3 phase air circuit breaker 7. DC circuit breaker <p>(DC Side):-</p> <ol style="list-style-type: none"> 1. Voltmeter 0-500 volts, 96 x 96mm : 1 no 2. Ammeter 0-15 Amp. 96 x 96 mm : 1 no 3. Sunk Field regulator Potentiometer type suitable to decrease field current up to min. Amps : 1 no 	1 Pc	Wireman

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		<p>4. MCB 2 pole, 500 volts, 32 Amp: 02 nos.</p> <p>5. Indicating lamp LED type (for output DC supply indication) Red colour, 16mm size: 1 no.</p> <p>Note:- Panel should be supplied with complete wiring and the drawing of wiring should be provided.</p> <p>BTI-30 Terminal should be provided for power supply, motor and generator connections. And should be brought out in front of panel.</p> <p>Foundation of MG Set</p> <p>Generator and Motor set should be mounted on MS 'C' channel of 75mmX40mmX5mm(thickness) of appropriate size duly painted with grey colour enamel paint.</p>		
14	DC Series Motor	<p>1. 3 H.P. 250V with copper wound 2 point starter and speed regulator (Laboratory type) & copper commutator and carbon brush, control panel and other accessories such as voltmeter, ampere meter and motor fitted copper winding</p> <p>Panel Specification:</p> <p>Panel made of MS Sheet of thickness 18 swg ,of size 2'.6 " X 2' X 5 "(depth) ,Front door of panel should be on hinges so that it may be opened ,with panel key and lock arrangement. Panel should be duly painted with powder coated paint.</p> <p>The Instrument Panel consist of following accessories : -</p> <p>1. Two point D.C. starter suitable for above motor, flush mounted : 1 no.</p> <p>2. MCB 16 amp: 1No.</p> <p>3. 4 Indicating lamp LED type 16 mm size for incoming and outgoing supply of the panel board : 2 nos.</p> <p>4. Digital Voltmeter 0-300 volts D.C. 96x96mm size : 1 no</p> <p>5. Digital Ammeter 0-15 Amp. D.C. 96x96mm size : 1 no</p> <p>6. Digital Ammeter 0-2 Amp. D.C. 96x96mm size : 1 no. (Voltmeter & Ammeter)</p> <p>7. Wire wound Field regulator Potentiometer type suitable to keep constant rated R.P.M. of the motor at full load. : 1 no.</p> <p>8. Motor is mounted on fabricated base plate of M.S.'C' channel with suitable anti vibration mounts.</p>	1 Pc	Wireman
15	DC Shunt Motor	<p>1. DC Shunt Motor 3 HP, 2.5 kw, 220volt with copper wound 3 Point starter and speed regulator</p> <p>2. 4 Pole, 1500 rpm</p> <p>3. DC Shunt motor with copper commutator and carbon brush</p> <p>Panel Specification:-</p> <p>Panel made of MS Sheet of thickness 18 swg ,of size 2'.6 " X 2' X 5 "(depth).Front door of panel should be on hinges so that it may be opened ,with panel key and lock arrangement. Panel should be duly painted with powder coated paint.</p> <p>The Instrument Panel consist of following accessories : -</p> <p>1. 3-point D.C. starter suitable for above motor, flush mounted : 1 no.</p> <p>2. MCB 16 amp: 1No.</p> <p>3. 4 Indicating lamp LED type 16 mm size for incoming and outgoing supply of the panel board : 2 nos.</p> <p>4. Digital Voltmeter 0-300 volts D.C. 96x96mm size : 1 no</p> <p>5. Digital Ammeter 0-15 Amp. D.C. 96x96mm size : 1 no</p> <p>6. Digital Ammeter 0-2 Amp. D.C. 96x96mm size : 1 no. (Voltmeter & Ammeter)</p> <p>7. Wire wound Field regulator Potentiometer type suitable to keep constant rated R.P.M. of the motor at full load. : 1 no.</p> <p>8. Motor is mounted on fabricated base plate of M.S.'C' channel with suitable anti vibration mounts.</p>	1 Pc	Wireman
16	DC Compound Motor	<p>DC compound Motor 3 HP with copper wound starter and switch :- 3HP ,220 volts,1500 rpm, 4 pole with copper commutator and</p>	1 Pc	Wireman

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		<p>carbon brush . 4 point starter with NO Volt coil and Over Load Relay, brass stud, DP MCB switch 20 A.</p> <p>Panel Specification: Panel made of MS Sheet of thickness 18 swg .of size 2'6 " X 2' X 5 "(depth) Front door of panel should be on hinges so that it may be opened ,with panel key and lock arrangement. Panel should be duly painted with powder coated paint.</p> <p>The Instrument Panel consist of following accessories : -</p> <ol style="list-style-type: none"> 1. 4-point D.C. starter suitable for above motor, flush mounted : 1 no. 2. MCB 16 amp: 1No. 3. 4 Indicating lamp LED type 16 mm size for incoming and outgoing supply of the panel board : 2 nos. 4. Digital Voltmeter 0-300 volts D.C. 96x96mm size : 1 no 5. Digital Ammeter 0-15 Amp. D.C. 96x96mm size : 1 no 6. Digital Ammeter 0-2 Amp. D.C. 96x96mm size : 1 no. (Voltmeter & Ammeter) 7. Wire wound Field regulator Potentiometer type suitable to keep constant rated R.P.M. of the motor at full load. : 1 no. 8. Motor is mounted on fabricated base plate of M.S.'C' channel with suitable anti vibration mounts. 		
17	Solar Street Light Lamp	<ol style="list-style-type: none"> 1. Lighting Type LED 2. Lighting Color Cool White 3. Load Power 18/24 watt 4. Power Source Solar 5. Voltage 12 V 6. Autonomy 18 hours 7. Body Material Plastic, Aluminum 8. Panel Capacity : 100W 9. Led lumens : 120/watt 10. Battery : 100 Ah 	8 Pc	Wireman
18	Automatic Reverse Forward Starter	<ol style="list-style-type: none"> 1. Type of Product: LT Reverse Forward Control Switch 2. Phase: Three Phase 3. Current Rating:15 Amp 4. Weight: 0.6 Kg 5. Operating Voltage: 415V AC 6. Dimension: 69x93mm 7. Rated operated power 3.5kw 8. Material mild steel body with ABS handle 9. Capacity 10 KW 	2 Pc	Wireman
19	Three Phase KWH meter analog	<p>Three Phase Energy Meter</p> <ol style="list-style-type: none"> 1. Analog Type 2. Current 25 Amp. 3. Voltage 415 V A.C 4. Induction type 5. Frequency 50 Hz 6. Housed in Hard Plastic Case 7. Copper Terminal 	4 Pc	Wireman
20	Three Phase KWH meter digital	<p>Three Phase Energy Meter</p> <ol style="list-style-type: none"> 1. Digital Type 2. Current 25 Amp. 3. Voltage 415 V A.C 4. Frequency 50 Hz 5. Display like as KWH, Voltage, Current, Power Factor, Load, Frequency 6. Housed in Hard Plastic Case 	5 Pc	Wireman
21	DC Power Supply	<ol style="list-style-type: none"> 1. 0-250-volt DC 25Amp, Digital DC Power Supply 2. I : 5 mA Load Regulation $\pm (0.05\% + 10mV)$ 	2 Pc	Wireman

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		<p>3. Setting Resolution V : 10mV, 4. Line Regulation $< \pm (0.05\% + 10mV)$ 5. Ripple & Noise $< 1mV_{rms}$ Current Limit adjustment 100mA to max. 6. Protection Built in Protection against Overload & short circuit should be provided. 7. 3 digit seven segment LED for Voltage & current 8. Input Supply 230V AC $\pm 10\%$, 9. Frequency 50Hz 10. Operating Temperature 0 to 40°C) 11. Ultra-thin body, portable and easy to use, 12. SMPS Based. 250 V, 25 A 13. Adjustable- 200W constant power design. wide application range 14. Power-on automatic output setting function. suitable for unattended occasions intelligent temperature control fan cooling, reduce noise 15. USB Device communication port, support SCPI 16. Constant voltage CV/constant current CC mode 17. Effectively protect the circuit ampere capacity with panel Board 18. Input Power: 230V, 50Hz 19. Output Voltage Range : 0-30V 20. Output Current Range : 0-2A 21. Protections: Over Voltage, Short Circuit 22. Line Load Regulation: 0.05 % 23. Meters: Digital Meters for Current and Voltage</p>		
22	Electrician Helmet	<p>Material:- 1. Shell:-Non-metallic materials. 2. Harness:-Material for head band. anti-concussion tape. 3. Metal Part:-Corrosion resistant. 4. Shape:-Dome-shaped. Size:- 1. 530mm – 01 no. 2. 560mm – 01 no. a) Headbandwidth:30mm(Min.) b) Straps:19mm(Min.) c) Chinstrap:atleast19 mm wide d) NapeStrapdepth:115mm(Min.) e) With adjustable belt f) Material- polyethylene</p>	4 Pc	Wireman
23	Solar DC Pump	<p>1. Solar DC pump body cast iron 2. Solar DC pump capacity 1 hp 3. Solar DC pump dia meter 75mm 4. Solar DC pump weight 10000g 5. Solar pump size 25mm 6. Solar dc pump voltage 24 V dc 7. Dimension of PV module (mm x mm x mm):- 1956X991X50 8. Safety Qualification Testing:-Modules must qualify to IEC 61730 Part I and II for safety qualification testing 9. Phase I</p>	2 Pc	Wireman
24	Solar Panel	<p>1. Solar Panel Type Polycrystalline 2. Wattage (Wp) 250wp, 15Wp 3. Operating (Nominal) Voltage 12V, 10A 4. Frame Material Aluminium 5. Weight in 8500gm</p>	2 Pc	Wireman
25	Soalr Charge Controller With Manual Switch	<p>1. Voltage:6V 2. System current:5A/10A 3. LED indicator, battery power display</p>	2 Set	Wireman

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	(Day Lighting)	4. Manual adjustable discharge mode 5. Three indicators 6. Charge LED light red colour 7. Battery LED level light yellow 8. Protection led light green 9. Controller height 68mm 10. Width of controller 52mm 11. Thickness 5mm		
26	EV Charger (Home)-1 Phase input	1. Auto charging plug : Type 2 to UK 3 Pin 2. Current : 6 A/8A/10 A/ 13 A 3. Voltage : 250 V 4. Power : 3.4 KW 5. Length : 5 m/8 m/10 m 6. Controller Type : LCD Screen 7. Cable Diameter : 12 mm 8. Contact Pin : Copper Alloy, Silver or nickel plating 9. Working Temperature : -30 degree to +50 degree	2 Pc	Wireman
27	Motion Detector	1. Detection Angle 180 Degree 2. Detection Distance 12 meter 3. Power Source 220-240 V AC 4. Ambient Light < 3- 2000 LUX 5. Working Temperature -20 to +40 Deg C 6. IP Rating IP66 7. Power Supply 100- 220 V 8. Frequency 50-60 Hz	2 Pc	Wireman

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