



GOVERNMENT OF ANDHRA PRADESH

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TENDER DOCUMENTS
FOR
SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND TRAIL
RUN OF MACHINERY AND EQUIPMENT
FOR
VEERANJANEYA PRINTERS & TONNERS ASSOCIATION-TIRUPATI (SPV)
Sy. No. 358/2, SESHAPURAM Village, Chandragiri Mandal, TIRUPATI Dt.-517102

To Establish

COMMON FACILITY CENTRE (CFC) FOR PRINTING CLUSTER AT
TIRUPATI DISTRICT OF ANDHRA PRADESH

Tender Notice No.1.INC64/26/2024-JD-INFRA

Tender Inviting Authority:
ANDHRA PRADESH MSME DEVELOPMENT CORPORATION
(AN ENTERPRISE OF GOVT. OF A.P.)
2nd Floor, PVS Land Mark, Mangalagiri,
Guntur District - 522503
Phone: 0866-2411459 E-mail: ceo-apmsmedc@ap.gov.in

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Bid Dates

Time schedule of various tender related events:

Bid Calling Date	07-05-2025
Pre-bid meeting date & time (Hybrid)	12-05-2025 @ 2.00 PM
Pre-bid clarifications issue date	14-05-2025
Bid closing date & time	20-05-2025 @ 7.00 PM
Technical Bid Opening Date & time	23-05-2025 @ 12.00 PM
Financial Bid Opening Date & Time	28-05-2025 @ 3.00PM

16.07.2025

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Chapter – 1

Introduction to Bidders

- 1.1. The Andhra Pradesh MSME Development Corporation – APMSMEDC (Tender Inviting Authority) is a fully owned by Government of Andhra Pradesh for providing services to the MSMEs in Andhra Pradesh. The corporation has also been appointed as Implementing Agency for the implementing of existing and new CFCs in Andhra Pradesh.
- 1.2. In this tender, the lowest price is the sole criteria for selecting the item/supplier. The two-bid system, which is followed, has been designed to eliminate those items which do not match the technical specifications, or not having the proven technology and to eliminate firms that do not have the financial or technical capability to supply, install and maintain the items. i.e., to provide after sales support for a period of minimum 5 years from the date of installation. Procurement will be subject to Public Procurement (Preference to Make in India) Order 2017 – Revised vide Gol, Min. of Commerce and Industry, DPIIT Ref No. P-45021/2/2017- PP (BE-II) dated 16-09-2020.
- 1.3. Every paisa spend by the corporation is public money and hence accountable. Therefore, after sales service and up-time guarantee on the performance of the item purchased by the Corporation have to be given paramount importance. Corporation will be dealing with defaulters in these fronts with a firm hand, which may lead to black listing and recovery of damages. We request our valuable suppliers to avoid such unpleasant situations.
- 1.4. It is also essential while dealing with public money that utmost transparency has to be maintained in the procurements of the corporation. All decisions will be published from time to time on e-procurement website <https://eprocure.gov.in/eprocure/app>
- 1.5. The purpose of this bid to establish a Common Facility Centre (CFC) in printing sector at Tirupati under MSE-CDP guidelines. A Special Purpose Vehicle is constituted for the purpose, i.e., Veeranjaneya Printers & Tonners Association-Tirupati, Sy. No. 358/2, Seshapuram Village, Chandragiri Mandal, Tirupati Dt.-517102; All the supplies, services etc., as per the Tender Document to be executed against the SPV.
- 1.6. The funds are made available by the Central Government, State Government of Andhra Pradesh and SPV to the CEO, APMSMEDC under MSE-CDP Scheme towards the procurement processed under this tender notification. The Delivery schedule has been notified as per the Fund availability projections.
- 1.7. Amendment of bidding documents: At any time of prior to the deadline for submission of bids, APMSMEDC, for any reason, whether at its own initiate or in response to a clarification requested by a prospective bidder, may modify the bidding documents by amendment. All the bidders at their own interest to verify by logging on to website for updating with corrigendum(s) issued in the contract. The APMSMEDC, at its discretion, may extend the deadline for the submission of bids.
- 1.8. Court Jurisdiction: In case of any dispute either party to approach the local court in Vijayawada jurisdiction only.

- 1.9. Contacting APMSMEDC: Bidder shall not approach APMSMEDC officers beyond office hours and/or outside APMSMEDC office premises, from the time of the tender call notice to the time the contract is awarded. Any effort by bidder to influence APMSMEDC officers in the decisions on bid evaluation, bid comparison or contract award may result in rejection of the bidder's offer and bidder may also be marked as ineligible for future bids. If the bidder wishes to bring additional information to the notice of the APMSMEDC, it should be in writing.
- 1.10. APMSMEDC reserves the right at the time of award to increase or decrease the quantity, as indicated in tender document. During the validity of the contract period thereof, the bidder should be ready to supply any No. of equipment as requested.
- 1.11. APMSMEDC, on the interest of the public money, reserves the right to modify/ extend/cancel the tender at any point of time without giving any prior notice/any reasoning.
- 1.12. Contract Signing: Successful bidder/bidders will be intimated in writing that their bid has been accepted. On submission of Performance Bank Guarantee, the contract agreement will be signed. APMSMEDC reserves the right to alter, add or delete the contract conditions on the interest of public money.
- 1.13. Manuals and Drawings: Bidders to upload the OEM standard brochures along with technical specifications of the machinery in case of purchase of machinery. Upon award of contract, the successful bidders shall supply operation and maintenance manuals in English or Telugu (together with drawings of the goods and services where applicable).
- 1.14. User License and Patent rights: The successful bidder shall provide licenses for all software products, whether developed by it or acquired from others. The bidder shall indemnify the purchases against all third-party claims of infringement of patent, trademarks or industrial design rights arising from use of the goods, software package or any part thereof.
- 1.15. Sub Contract: Sub-contracting is not allowed in Works contract, supply of Machinery, installation, test run, commissioning, etc.,

1.16. Abbreviations:

APMSMEDC	Andhra Pradesh MSME Development Corporation
BG	Bank Guarantee
CEO	Chief Executive Officer
CFC	Common Facility Centre
CPPP	Central Public Procurement Portal
EMD	Earnest Money Deposit
LD	Liquidated Damages
MAF	Manufacturers Authorization Form
MSE-CDP	Micro Small Enterprises – Cluster Development Program
MSME	Micro, Small and Medium Enterprises
PS/SD	Performance Security/Security Deposit
SPV	Special Purpose Vehicle
TIA	Tender Inviting Authority
Technical Specifications	Machinery Technical specifications as required by the end User

Chapter – 2

Table of Contents

SI No	Description
2.1	Bid Process and Bid Dates
2.2	Details of TIA, End User
2.3	Statement of important limits/values related to bid
2.4	Payment Terms
2.5	Bidders Qualifications
2.6	Bid Submission Procedure
2.7	Special Conditions

2.1 Bid Process and Bid Dates

2.1.1 E Procurement: The details of bidding conditions and other terms can be downloaded from the electronic procurement platform of Government of India i.e., <https://eprocure.gov.in/eprocure/app>. Two bid system (simultaneous receipt of separate technical and financial bids) through online. Bidders would be required to register on the e-Procurement market and submit their bids online. On registration with the e-Procurement market place they will be provided with a user id and password by the system through which they can submit their bids online.

2.1.2 The Bid is divided into various schedules as shown in Chapter 3, Schedule of requirements. The interested bidders can bid one or more schedules as per their choice/convenience in related fields.

2.1.3 Technical Bid: Interested bidders to download the contract documents and corrigendum issued if any. Bidders should read, understand the contents and bid details with technical details. Clarification if any, may be sought in writing prior to on or before pre-bid meeting. Bidders to submit the technical compliance statement as per Form T-1. Non-Submission of Form T-1, indicates that bidder is agreeing to the specifications as mentioned in the contract form. On completion of contract documents, the same is to be signed in ink by the Authorised Signatory in each page and affix the company stamps. Authorised signatory should have appropriate authority and same is also to be uploaded. Any short fall of documents leads to rejection in Technical Evaluation. After technical evaluation, the qualified bidders will be notified automatically by the system software and the opening of financial bid date will be intimated to them by APMSMEDC through e-mail/phone.

2.1.4 Financial Bid: Financial bid is also to be submitted along with technical bid. The bidder should enter the item wise total values of that particular schedule including all Costs, services, Taxes etc., and upload the Cost sheet Form F 1 as provided in Chapter 5 at the time of financial bid submission. If the price bid/Cost sheet is attached along with technical bid documents, their bid will be disqualified. The financial bid of technically qualified bidders will only be opened and in no case the financial bid of not qualified bidders will be opened through e procurement site.

2.1.5 Bid Dates

Time schedule of various tender related events:

Bid Calling Date	07-05-2025
Pre-bid meeting date & time (Hybrid)	12-05-2025 @ 2.00 PM
Pre-bid clarifications issue date	14-05-2025
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Technical Bid Opening Date & time	23-05-2025 @ 12.00 PM
Financial Bid Opening Date & Time	28-05-2025 @ 3.00PM

2.2 Details of Tender Inviting Authority, End User, E Procurement Help Desk

2.2.1	Tender Inviting Authority	The CEO Andhra Pradesh MSME Development Corporation, 2 nd Floor, PVS Land Mark, Mangalagiri – 522503 E-mail: ceo-apmsmedc@ap.gov.in
2.2.2	End User	The Managing Director Veeranjaneya Printers & Tonners Association Tirupati, Sy. No. 358/2, Seshapuram Village, Chandragiri Mandal, Tirupati Dt.-517102 GST No. 37AAJCV0535B1ZL MD: 8328562229 Technical Consultant: 9966169901 e-mail: veeranjaneyaprint.tone@gmail.com envisionconsultum@gmail.com
2.2.3	E Procurement Help Desk	For any technical related queries please call at 24x7 Help Desk Number: 0120-4711508, 0120-4001002, 0120-4001005 & 0120-6277 787 Email Support: For any issues or classification's relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority. Technical – support-eproc@nic.in Policy Related – cphp-doe@nic.in

2.3 Statement of important limits/values related to bid: Bid currency in Indian Rupee (INR) only.

SI No	Details	Payee details/Payment Options
2.3.1	Cost of Tender Form (Non-Refundable)	<p>Cost of Tender Form is Rs. 5,000/- (Non-Refundable) Payment is to be made through NEFT to APMSMEDC A/c No 39677901097 IFSC Code No: SBIN0016857</p> <p>Note: NEFT details to be uploaded along with tender documents <u>Note1:</u> Micro and Small Enterprises (MSEs) in relevant Manufacturing, as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises, GOI or are registered with the Central Purchase Organizations or the concerned Ministry or Department are exempted from Tender form/ Bid Security/EMD deposits on submission of relevant documents.</p>
2.3.4	Bid Security/EMD	<p>All Bidders to submit schedule wise Bid Security/EMD having validity of 45 days from the bid closing date as per the following:</p> <ul style="list-style-type: none"> i) Schedule A – Rs.5,00,000/- ii) Schedule B – Rs. 1,20,000/- iii) Schedule C – Rs. 5,50,000/- iv) Schedule D – Rs. 75,000/- v) Schedule E –Rs.13,50,000/- vi) Schedule F –Rs.3,00,000/- vii) Schedule G –Rs.10,00,000/- viii) Schedule H – Rs.1,00,000/- ix) Schedule I – Rs. 3,50,000/- x) Schedule J – Rs. 21,00,000/- <p>Bid Security/EMD can be submitted in the form of Bank Guarantee/DD favoring:</p> <p>The CEO, APMSMEDC, Mangalagiri Soft copy of the EMD remittance to be uploaded and original to be submitted by hand or by post to reach within 48 hours from the Bid closing date to the office of the CEO, APMSMEDC.</p> <p>Note 1: Non-receipt of original Bid Security/EMD leads to tender disqualification.</p> <p>Note 2: Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises or are registered with the Central Purchase Organization or the concerned Ministry or Department are exempted from Bid Security/EMD</p>

		<p>deposits on submission of relevant documents. The documents should also satisfy that, MSEs are actually involved in relevant Manufacturing or Services.</p> <p>Note 3: Bid Security/EMD of unsuccessful bidders will be released within 30 days of the Award of Contract subject to the fulfilling of Contract conditions.</p>						
2.3.5	Performance Security	<p>The Successful Bidder/Bidders to submit Performance Security/Security deposit in the form of Bank guarantee @5% on the contract awarded value and should remain valid for a period of Sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.</p> <p>Bank Guarantee to be submitted within 15 days of award of contract, favoring: Veeranjaneya Printers & Tonners Association-Tirupati</p> <p>Note: Non-receipt of Performance security in stipulated period leads to forfeiture of Bid Security/EMD and other statutory actions as per the Government Regulations in force.</p> <p>(BG Proforma is given as Appendix II)</p>						
2.3.6	Contract Award value	<p>The bidders to note that, financial bid is inclusive of, Supply, Delivery, Installation, Trial Run, Commissioning, Training of staff, Warranty Period for Two years or Manufacturing company specifications, whichever is higher and additional Annual Maintenance Contract for additional two years on completion of warranty. If OEM provides additional Warranty to critical components of the Machinery, the same will also to be extended without any additional cost by the contractor. The Contract Award value is all inclusive of Machinery cost, services, Taxes, Transportation etc., Warranty, AMC etc.,</p>						
2.3.7	Bid Validity Period	60 days from the date of opening of bids						
2.3.8	Variation in Qty	The decision of the CEO, APMSMEDC is final on quantity variations.						
2.3.9	Period of Signing Contract	Within 15 days from the Award of contract to successful bidders on submission of PBG.						
2.3.10	Contract Execution Period	<p>The Successful bidders to complete the Machine Installation and other contractual obligations as per the following schedule from the contract agreement date.</p> <table border="1"> <thead> <tr> <th>Schedules</th> <th>W.E.F</th> <th>Supply to be completed by</th> </tr> </thead> <tbody> <tr> <td>Schedule A to D</td> <td>Receipt of Purchase</td> <td>60 days from the date of PO</td> </tr> </tbody> </table>	Schedules	W.E.F	Supply to be completed by	Schedule A to D	Receipt of Purchase	60 days from the date of PO
Schedules	W.E.F	Supply to be completed by						
Schedule A to D	Receipt of Purchase	60 days from the date of PO						

			Order from AP MSME DC preferably 15 days from the contract	preferably by 30 Jun 2025
		Schedule E to H	On issue of AP MSME DC PO; preferably in May 2025	60 days from the date of PO, preferably by 31 Jul 2025
		Schedule I to J	On issue of AP MSME DC PO; preferably in Jul 2025	90 days from the date PO, preferably by 31 Oct 2025
		<p>The CEO, APMSMEDC will be issuing Purchase Orders as per the Fund availability position. Successful bidders needed to intimate the CEO, AP MSME DC regarding the delivery schedule time to time to ascertain the progress.</p>		
2.3.11	LD for late deliveries/ installations	<p>Liquidate Damages for late deliveries/ Installations: 1% of the late delivered or deemed late delivered goods for One week or part thereof, 1.5% for Two weeks or part thereof, 2% for Three weeks or part thereof, 2.5% for 4 weeks or part thereof and so on subject to maximum penalty up to 5%. Note: Late deliveries/Installations beyond the permissible period attracts, LD recoveries, encashment of PBG and other statutory actions as per the Government Regulations in force. However, delay from SPV side if any towards handing over of shed for installation of machinery will not attributable to the bidder.</p>		

2.4 Payment Terms:

SI No	Details	Payment Value & Conditions
2.4.1	On signing of Contract	30% of the contractual value
2.4.2	On intimation of Machine readiness	30% of Machinery cost on confirmation from the OEM that machine is ready to dispatch and after demonstration of its working condition to end users or their authorized representative. In case of Imported machinery, payment will be released through conditional Letter of Credit (LC) on shipment from the OEM country of origin.
2.4.3	On Installation of Machinery	30% of the Contractual value on confirmation and submission of requisite documents from End User.
2.4.4	On completion of contract	Balance 10% of the contractual value released on fulfilling of terms & conditions of contract on confirmation and submission of requisite documents from End User.

2.5 Bidders Qualifications:

- 2.5.1 The Bidder should be a manufacturer/authorized representative of a manufacturer/whole sale dealer/Distributor and should be in business of manufacture and or supply and maintenance of the related equipment's for a minimum period of three (3) years in India as on bid calling date. (Form-P1)
- 2.5.2 The preference may be given to bidders who are registered in India and especially in the state of Andhra Pradesh. (Form P-2)
- 2.5.3 The Bidder should submit the Manufacturer's Authorization Form (MAF) for all the offered products / items, as per Schedule-I specific to this tender issued by Original Equipment Manufacturer (OEM) authorizing the bidder to submit the bid for tendering which is deemed as an agreement in between the bidder and OEM for the support and spares till the warranty period. (Form-P3)
- 2.5.4 The Bidder / OEM may have a Registered Service Centre / Franchise Service Centre in the state of Andhra Pradesh as on bid submission date. Preference may be given to the bidders who has the office in Andhra Pradesh, but not a mandatory clause. The details are to be provided in Form P-4.
- 2.5.5 The Bidders either Manufacturer or Distributor should have positive net worth and disclose their annual turnover of the last three financial years i.e., 2021-22, 2022-23 & 2023-24 in Form P-5. The minimum eligibility turnover for Manufacturer or distributor in any one FY is as follows:

	Manufacturer	Dealers/Distributors
Schedule A	Rs.260 Lakhs	Rs.130 Lakhs
Schedule B	Rs.50 Lakhs	Rs.25 Lakhs
Schedule C	Rs.360 Lakhs	Rs.180 Lakhs
Schedule D	Rs.180 Lakhs	Rs. 90 Lakhs
Schedule E	Rs. 900 Lakhs	Rs.450 Lakhs
Schedule F	Rs. 180 Lakhs	Rs.90 Lakhs
Schedule G	Rs. 650 Lakhs	Rs.325 Lakhs
Schedule H	Rs. 70 Lakhs	Rs.35 Lakhs
Schedule I	Rs.240 Lakhs	Rs.120 Lakhs
Schedule J	Rs.1600 Lakhs	Rs.800 Lakhs

- 2.5.6 ✓ The Bidder/OEM should have cumulative sales of related items of at least 10 Nos. in the last three financial years. The Bidder/OEM should furnish the information on major past supplies under the relevant product/services. (Form-P6).
- 2.5.7 The bidder should submit/give declaration stating that they are not debarred/blacklisted by any State Government, Central Government, Central & State Govt. Undertakings/ enterprises/ Organizations and by any other Quasi Government bodies/ Organizations in India for non- satisfactory performance, corrupt & Fraudulent or any other unethical business practices in Form P5. If the bidder is debarred/ blacklisted as mentioned above, such bidder becomes ineligible to participate in the bidding process. In case of any concealing of information relating to blacklisting or pending of cases as mentioned above or submission of fake information/fake documents, APMSMEDC reserves the right to cancel the work order/contract allotted, apart from forfeiting of EMD/PBG. APMSMEDC reserves the right further to take penal action on the bidder. (Form-P7)
- 2.5.8 Bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per G.O. Ms. No. 9, Dt. 25-02-2021 issued by Industries & Commerce Department, Go AP. (DPIIT registration certificate copy to be submitted. Bidder shall have to submit the Undertaking as per (Form-P8).
- 2.5.9 ✓ Bidders to submit the declaration regarding deviations from schedule of Requirements by giving the valid justification and Reasons as per (Form P9).

2.6 Bid Submission Procedure:

SI No	Item	Description
2.6.1	Procedure for Bid Submission	<p>Bids shall be submitted online on https://eprocure.gov.in/</p> <ol style="list-style-type: none"> 1. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the above website. 2. Bidders can log-in to e-procurement platform in Secure mode only by signing with the requisite Digital certificates. 3. The bidders who are desirous of participating in e-procurement shall submit their technical bids, price bids as per the website specifications. 4. The bidders should scan and upload the respective documents in Pre-Qualification and Technical bid documentation as detailed at Section E & G of the RFP including EMD. The bidders shall sign on all the statements, documents certificates uploaded by them, owning responsibility for their correctness/authenticity. 5. The rates should be quoted in INR and online only
2.6.2	Other conditions	<ol style="list-style-type: none"> 1. After uploading the documents, in respect of Bid Security are to be submitted by the bidder to the O/o the CEO, APMSMEDC, Mangalagiri. If any of the certificates, documents, etc., furnished by the Bidder are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted and action will be initiated as deemed fit and the Bid Security will be forfeited. 2. APMSMEDC will not hold any risk and responsibility regulating non-visibility of the scanned and uploaded documents. 3. The Documents that are uploaded online and clarifications taken by APMSMEDC will only be considered for Bid Evaluation.

2.7 Special Conditions

Bidder is wholly responsible for supply, installation and other services as per the contractual agreement. Bidder to consider all the factors while quoting the financial bid. Few such aspects are listed below:

2.7.1 Site Inspection: The bidders are advised to visit the site and are permitted to calculate the requirements to arrive the actual quantities needed for installation of Machineries and their accessories. As the specialized machinery requires proper ergonomics, the successful bidder should give their designs in advance for approval.

2.7.2 Installation precautions: The Successful bidder is wholly responsible for the machinery installation as per the OEM guidelines. Proper due care to be taken to avoid any mishap. Proper site preparation, Proper Packing, Planned Transportation, Suitable Insurance, Proper electrification & earthing, Manpower training, etc., will helps in smooth installation of Machinery by Successful bidders.

2.7.3 Machinery User Manuals, Drawings, Flow Charts etc., The machinery drawings, flow charts, user manuals, Periodic Maintenance schedules, list of spare parts, any other documents for the smooth functioning of equipment to be uploaded the bidder along with bid documents. The medium of language is English for this purpose. The successful bidder to supply one set of documents in both soft and print copies.

2.7.4 Obsolete Machinery: The bidder should quote for the latest machinery or machinery having suitable life as per the tender specifications and not any obsolete Machinery. Bidders also to submit the deviations from schedule of Requirements.

2.7.5 Technology Upgradation: The bidder is under obligation to upgrade the technological developments including software updates, happened during the Warranty Period. As the Printing technology uses latest software, latest updates to be incorporated by default.

2.7.6 Force Majeure: In the event of unforeseeable circumstances that prevent Successful bidder from fulfilling the awarded contract, the same to be communicated immediately to the CEO MSMEDC for taking remedial actions.

2.7.7 Liquidated Damages: Bidders to note that, upon giving the contract, if the Supplier fails to fulfil the contractual obligations, a fine of 1% per week till the completion/termination of contract will be imposed subject to a maximum of 5% of the total contract value. Besides the supplier may be blacklisted as per the existing rules & regulations.

2.7.8 Termination Insolvency: If the bidder becomes bankrupt or otherwise insolvent prior or during the tender or during the period of contract, the CEO APMSMEDC may terminate the contract as per the law and suitable provisions may be initiated in their discretion.

2.7.9 Resolution of Disputes: In the event of any unfortunate dispute, after the award of contract; the Purchaser and the Supplier shall make every effort to resolve amicably by direct formal negotiations. If the dispute is not resolved in a month duration, either

party may seek remedy as per the Arbitration & Reconciliation Act 1996 and Arbitration & Reconciliation (Amendment) Act 2021.

2.7.10 Delivery Schedule: The CEO, AP MSME DC will be issuing the Purchase Orders as per the Funds availability for smooth commissioning of the project. The Successful bidders to plan their supplies as per the delivery schedule mentioned in clause 2.3.10.

Chapter – 3

Schedule of Requirements

Successful bidders to supply the following machinery to M/s **Veeranjaneya Printers & Tonners Association, Tirupati**. The successful bidders to make supply, Installation, Testing, Commissioning, Trial Run of Machinery & Equipment, training of staff along with providing Warranty and Maintenance services as per the Contractual obligations to M/s Veeranjaneya Printers & Tonners Association-Tirupati (SPV), Sy. No.358/2, Seshapuram Village, Chandragiri Mandal Tirupati Dt.– 517102 having GST No. 37AAJCV0535B1ZL Detailed technical specifications of the Machinery are provided in Chapter – 4.

The Bid is divided into following **10** schedules. The interested bidders can bid one or more schedules as per their choice/convenience.

List of Machinery for the bid is invited

Schedule A

SI No	Machinery Details	Qty
01	Industrial Airconditioning	01
02	Roof Top Solar Setup	01
03	UPS	01
04	Material Handling Equipment	01
05	Electrical Installation and Equipments	01
06	Rain Water Harvesting Setup	01

Schedule B

SI No	Machinery Details	Qty
01	Computer Systems for Graphic Designing with OS & Adobe Software	05
02	Mac Pro Systems	02
03	Training Skill Development Setup	01
04	A4 Color Laser Jet all-in-one Printer	1
05	A4 Black & White Laser jet Printers	2
06	C C TV Setup	1
07	Network Setup for All Machineries	1

Schedule C

SI No	Machinery Details	Qty
01	Digital Press	01

Schedule D

SI No	Machinery Details	Qty
01	Computer Chairs (Including Training Setup)	50
02	Executive Tables	3
03	Reception Table	1
04	Reception Chair	2
05	Computer Tables	5
06	Virgin Plastic Chairs	50
07	Water Dispensary	1
08	Office Almarah	5
09	Executive Chairs	5
10	Conference Table Setup	1
11	Steel Racks Almarah for Storage	5
12	Filling Cabinets	5
13	Sofa Sets	3
14	Center Table	3
15	R O Water setup	1
16	Tables for working	5
17	Fire Equipment Set	1

Schedule E

SI No	Machinery Details	Qty
01	Fully Automatic Programmable Paper Cutting Machine	01
02	Automatic Books Case Maker Machine	01
03	Fully Automatic Knife Trimmer	01
04	Album Case Making Machine	01
05	Joint Forming Machine	01
06	Automatic Thermal Lamination Machine	01
07	Automatic Folding Machine	01
08	Automatic Die-Cutting Machine	01
09	Perfect Binder Machine	01

Schedule F

SI No	Machinery Details	Qty
01	Straight Linear Fusing Press Machine	01
02	Infra-Red Screen Curing Machine	01
03	Screen Exposing and Screen Dryer Machine Setup	01
04	Semi-Automatic Screen-Printing Machine	01

Schedule G

SI No	Machinery Details	Qty
01	Eco Friendly Cloth Banner Printing Machine	01
02	Computer to Plate Making Machine-CPT Setup	01
03	Plate Exposing Machine	01
04	Spot UV Printer/Embossing Machine	01

Schedule H

SI No	Machinery Details	Qty
01	DG Set 240 KVA	01

Schedule I

SI No	Machinery Details	Qty
01	Multi Color Fabric Printing Machine	01

Schedule J

SI No	Machinery Details	Qty
01	Automatic Five Colour offset Machine	01

Chapter – 4

Specifications and allied Technical Details & Quality Assurance

The Bid is divided into following schedules shown in Chapter 3, and their Schedule of Requirements are appended below. The interested bidders can bid one or more schedules as per their choice/convenience. Schedule wise specifications and allied Technical Details are given below:

Schedule A

SI No	Machinery Details	Qty
01	Industrial Airconditioning	01
02	Roof Top Solar Setup	01
03	UPS	01
04	Material Handling Equipment	01
05	Electrical Installation and Equipments	01
06	Rain Water Harvesting Setup	01

i. Industrial Airconditioning AC 22 Tons with Duct:

SI No	Machinery Details
01	<p>Duct able Split AC 22 Tons</p> <ul style="list-style-type: none"> • Specifications: • Cooling Capacity: 22 tons (Approximately 2,64,000 BTU/hr). • Refrigerant: R-22 due to its lower environmental impact and better energy efficiency. • Energy Efficiency Rating (EER): The EER rating for this model may vary, but it should be designed for high efficiency to minimize energy consumption. • Type: Duct able Split Air Conditioner. This system consists of an indoor unit connected to ductwork and an outdoor unit. • Compressor Type: The compressor type and specifications should be provided as per the OEM product documentation. Desirable with less noise levels. Airflow: The unit should provide sufficient airflow to cool the designated area effectively. Airflow specifications may include airflow rates in cubic feet per minute (CFM) for both the indoor and outdoor units. • Dimensions: Check the dimensions of both the indoor and outdoor units to ensure they can be accommodated in the installation space. • Sound Levels: Indoor and outdoor unit sound levels should be provided • Controls: User-friendly controls for easy operation and programming. Advanced features such as remote control, Wi-Fi connectivity, and scheduling options to be made available. • Filters: The unit should be equipped with high-quality air filters to maintain indoor air quality. Provide the washable or replaceable filters that can capture dust, pollen, and other airborne particles. • Installation Requirements: Vendors are to visit the site for making the assessment and consider electrical specifications, ductwork design, and any additional accessories or

	<p>components needed for installation. Professional installation is recommended to ensure optimal performance.</p> <ul style="list-style-type: none"> • Warranty: OEM Warranty to be provided including additional warranty for compressor. • Service and Support: Ensure that OEM reliable service and support for maintenance, repairs, and troubleshooting for additional two years.
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ii. Roof Top Solar Setup:

Roof Top Solar Setup, Capacity 75 KW – Supply, Installation, Testing, Commissioning, Trial Run

TECHNICAL SPECIFICATION

1 PV Modules:

Solar Photovoltaic panels constitute the solar array of a photovoltaic system that generates and supplies solar electricity in commercial and residential applications. The majority of modules use wafer-based crystalline silicon cells or thin-film cells based on cadmium telluride or silicon. Crystalline silicon accounted for more than 90 percent of worldwide PV production with IEC61215 (crystalline silicon performance) standards.

2 Power Conditioning Unit:

A Solar Inverter, or Converter or PV Inverter, converts the variable direct current (DC) output of a Photovoltaic (PV) solar panel into a utility frequency alternating current (AC) that can be fed into a commercial electrical grid or used by a local, off-grid electrical network. Solar Inverters use maximum point tracking (MPPT) to get the maximum possible power from the PV array. Grid-tie Inverters are designed to shutdown automatically upon loss of utility supply, for safety reasons.

3 Module Mounting System Arrangement:

Fixed mounting structures tilt the modules at a fixed angle determined by the latitude of the site, the requirements of the load (appliances which are by the PV power system) and the availability of sunlight. The fixed mounts should be stable, flat and well ventilated. They must withstand heavy wind and heavy rainfall. The mounting structure must be fixed to the building or the under-roof beams to ensure durability and safety. Mounting structures can be made of: Galvanised Iron, or Painted steel, Aluminium

4 AC /DC Distribution:

AC Distribution design is purely based on the system capacity, nearest grid availability to the site.
AC

Distribution consists of major equipment's like LT Panels, Distribution Transformers, HT Panels and Control system for your case connected to LT panel system or others.

4.a. Cables:

Solar cables are extremely robust and resist high mechanical load and abrasion. High temperature

resistance and excellent weatherproofing characteristics provide a long service life to the cables used in large scale projects. The connectors with high current capacity and easy mode of assembly are to be used for the connections of the power plant cables.

iv. Material Handling Equipment.

a. Pallet Lift

Capacity	1000Kg
Raised Height	2500mm
Material	Cast iron
Power	1.1Kw
Fuel	Electric

b. Fork Lift

Capacity	2000kg
Raised Height	2500mm
Material	Cast iron
Power	1.1Kw
Fuel	Electric

v. Electrical Installation & Equipment:

- Setting up the entire system to connect the Electrical Grid with 6 coir & above cables.
- The Installation should include a network of wires, switches, outlets, and associated infrastructure required to power lighting, appliances, machinery, and various electrical devices & implement robust grounding systems.
- The Installation and maintenance of electrical systems are indispensable for safeguarding occupants and property against hazards such as fires, electrocution, and equipment malfunction.
- For the installation of Machinery required support should also done as per required by Machinery Vendors.
- Interested bidders to visit the site and note the requirements prior to the participating in the tender.
- Successful bidders to submit the Electrical drawings and on approval of the drawings, the work to be initiated.

vi. Rain Water Harvesting Setup:

The successful bidders to adhere to the AP State Government norms in setting up of Rain Water Harvesting Setup.

- Recharge pits are suitable for recharging very shallow aquifer.
 - These are constructed generally 1 to 2 m wide and 2 to 3m deep.
 - After excavation, the pits are refilled with pebbles and boulders.
 - Water to be recharged should be silt free.
 - The pit should be located in an area that receives the most rainfall
 - The pit should be at least 3 meters away from any other buildings or structures
 - The pit should be easily accessible for maintenance
 - The pit should be designed to recharge shallow aquifers
 - The pit should include a filtration system and a first flush mechanism to ensure water quality
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Schedule B

SI No	Machinery Details	Qty
01	Computer Systems for Graphic Designing with OS & Adobe Software	5
02	Mac Pro Systems	2
03	Training Skill Development Setup	1
04	A4 Colour Laser Jet all-in-one Printer	1
05	A4 Black & White Laser jet Printers	2
06	C C TV Setup	1
07	Network Setup for All Machineries	1

i. Computers with all accessories:

Processor	Intel Core i9/Risen9 14 th Generation Processor790AORUS Elite AX/ASUS ROG Maximus Z970 Hero/MSIMEG Z970 - 12100 (up to 4.3 GHz with Intel Turbo Boost Technology, 12MB L3 cache, 4 cores, 8 threads)
Mother Board	Gigabyte
Memory	32 GB DDR4Corsair,
Internal Storage	4TB SATA HDD, Seagate Barracud
Graphics Card	8 GB Graphic Card NVIDIA Geforce
Ports	4USB 2.0 Type – A; 1 audio-in; 1 audio-out; 1 RJ-45; Serial Port Adapter
Optical Drive	Optical drive not included
Cabinet	Master Cooler High end
Display	28" Curved Monitor 54.6 cm (21.5) FHD (1920 x 1080) 60Hz VESA mountable; Sustainable Power 100 – 240VAC 50/60 Hz Power Consumption 20 W (maximum); 18.5 W (typical); 0.5 W (standby) Operating Temperature Range 5 to 35 Degree Celcius including HDMI Ports
Keyboard	Wireless
Input Devices – Mouse	Wireless
Operating System	Windows 11 Home or higher
Office	MS Office H&S
Warranty	3 Years
Desktop Virus Protection	3 years
UPS	As per the requirement of PC

ii. Mac Pro Systems for Designing Purpose

Processor	2.6 GHz Dual Core, 3MBL3 Cache
Memory	8GB DDR13L
Internal Storage	256GB Hard Disk
Graphics	HD Graphics 4000 with IPS Technology
Keyboard	Wireless
Input Devices – Mouse	Wireless
Operating System	Windows 11 Home or higher
Office	MS Office H&S
Warranty	3 Years
Desktop Virus Protection	3 years

III. Training Skill Development Setup:

a. Digital Board for Training Purpose

Led Pannel Size	100"
Back Light	LED
External Size	2225X99.9X1330.9mm
Display Size	2159X1214mm
Input Voltage	AC 100-240V~50/60Hz
Resolution	3840X2160 (4K resolution, UHD)
Glass	Anti-glare glass, anti-fingerprint, antimicrobial tempered glass, physical toughened 7 grade explosion-proof glass
Android Version	Android 11 or above
WIFI	Included
Bluetooth	Included

b. EPBX for Training Purpose

- Connects to 2 CO lines and 32 extensions.
- Call transfer to other extensions, memory dialling facility up to 48 numbers, conference between telephone main line and 2 extensions, connects to door phone (optional)
- Internal and trunk caller line identification in both fsk and dtmf mode, flexible extension numbering (1-4 digits), incoming call ring and outgoing call can be programmed extension wise
- Protection circuit to secure PBX from high voltages on AC mains: rj11 9 nos leads provided for easy installations
- Day/night mode facility, plug and play PBX with compact body and robust design.

c. Audio Setup for Training Purpose

Number Of Speakers	4
Channel	2.1
Bluetooth	Yes
Radio And Fm Tuner	Yes
Multi Jack Wall Plate	RDL DB-CIJ3D Mono Consumer Input Jacks
Wireless Microphone System	Samson Concert 288 All-In-One Dual Channel Wireless System
Podium Microphone	Audio-Technica Pro 49QL Gooseneck Microphone
Frequency	50 Hz
Accessories	4 Speakers, 1Mic, Mixture, Connector, Wires, Amplifiers and Collar Mic

d. Projector for Training Purpose:

Light Source	Laser & LED
ANSI Lumen	3200 lm
Laser Life Time	25000 hours
Resolution	4K, UHD
HDR Formats	HDR10
Color Space	95%
Key Stone Adjustment	3D keystone, Vertical & Horizontal & Rotation \pm 30 degrees
Power Supply	AC 100 to 240V, 50/60Hz

e. Computers For Training Setup

Processor	Intel Core i9/Risen9 14 th Generation Processor790AORUS Elite AX/ASUS ROG Maximus Z970 Hero/MSIMEG Z970 - 12100 (up to 4.3 GHz with Intel Turbo Boost Technology, 12MB L3 cache, 4 cores, 8 threads)
Mother Board	Gigabyte
Memory	32 GB DDR4Corsair,
Internal Storage	4TB SATA HDD, Seagate Barracud
Graphics Card	8 GB Graphic Card NVIDIA Geforce
Ports	4USB 2.0 Type – A; 1 audio-in; 1 audio-out; 1 RJ-45; Serial Port Adapter
Optical Drive	Optical drive not included
Cabinet	Master Cooler High end

Display	28" Curved Monitor 54.6 cm (21.5) FHD (1920 x 1080) 60Hz VESA mountable; Sustainable Power 100 – 240VAC 50/60 Hz Power Consumption 20 W (maximum); 18.5 W (typical); 0.5 W (standby) Operating Temperature Range 5 to 35 Degree Celcius including HDMI Ports
Keyboard	Wireless
Input Devices – Mouse	Wireless
Operating System	Windows 11 Home or higher
Office	MS Office H&S
Warranty	3 Years
Desktop Virus Protection	3 years
UPS	As per the requirement of PC

IV. A4 Color Laser Jet All-in-one Printer

- A4 color laser Multifunction Printer suitable for Business needs
- Print, Copy, scan, ADF, Duplex
- Dynamic Security enabled printer
- Print speed: 70 PPM up to above or equal to 70 Black white A4 sheets & above 50 color A4 sheets
- USB Ethernet, Wi-Fi
- Duplex Printing

V. A4 Black & White Laser Jet Printer

- Print, Copy, scan
- Dynamic Security enabled printer
- Print speed: PPM upto above or equal to 20 Black & white
- USB Ethernet, Wi-Fi, Mobile Printing.

VI. C C TV Setup

General Description: System: IP based CCTV System.

Recorded video of all cameras to be stored at least for 30 days.

All equipment and materials used shall be standard components.

Detailed Specification of Components

1. Day/Night IP HD camera with IR (minimum 12 megapixel): -

Parameter	Specification
Total No of Cameras	35-40 cameras
Image sensor	1/3" or better type CMOS color Sensor
Effective Pixels	4000X 3000
Scanning System	Progressive Scan

Resolution	1080p Full HD images up to 25/30 fps
Frame Rate	25 FPS/30 FPS for 1920 X 1080p at H.264 Compression or better
Compression	H.264 Compression (main profile/high profile) and MJPEG
Bit Rate	32kbps – 10Mbps
Intelligent Video	Motion detection etc.
IP Camera Inputs	As Required
Video O/P	1 HDMI, 1 VGA
Compression	H.264 / MJPEG
Video Resolution	3200X 1800, 2560 X 1920, 2048 X 1536, 1920 X 1080, 1280 X 720
Recording Resolution	3200X 1800
Recording Speed	Up to 30 fps per channel
Video Detection	Motion, Video Loss, Camera Blank
Hard Disk	Min 2 SATA ports, 2TB, Raid (Redundancy)
Monitoring	4 Televisions
Smart Phone Surveillance Support	iPhone, iPad, Android, Windows Phone
Protocol	IPv4/IPv6, HTTP, TCP/IP, UDP, UPnP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter
Recording Mode	Manual, Schedule, STOP, Alarm and MD
Search Mode	Time/Date, Alarm, Motion Detection, Exact Search (accurate to second)
Playback	Play, Stop, Pause, Rewind, Fast Play, slow play, fullscreen, backup
Backup Mode	USB Device / Network
Interface Ports	USB 2.0 port, USB 3.0 port, 1 RS485, 1 RS232, 1 RJ45
Ethernet Ports	1 RJ-45 port (10/100M Base T)
Power Supply	AC 100V~240V 50/60Hz
Product warranty	at least 2 years
RJ45 ports	Minimum 8 nos. 10/100/1000 BASE-T Ethernet Ports. Uplink port should have sufficient speed to avoid network congestion, preferably network should not be loaded more than 70% at any stage, fully IEEE 802.3 compliant.
Protocols and compliances	The switch should provide all standard protocols and compliances
Power input	Dual redundant power input, PoE
Mounting	Rackmount, wall or desktop mounting options
Hard Disk Type	Surveillance Hard Disk
Capacity	2 TB (3 No's)
Data Transfer Rate	Minimum Data transfer rate 6000 mbps.
Type of Cable	Unshielded Twisted Pair (UTP) CAT 6 cable Pair-shielded 100 Ohm installation cable with overall braided screen, suitable for transmission frequencies of up to 600 MHz
Conductor	4 pair UTP armored cable 23 AWG Solid bare Copper
Primary Insulation	High Density polyethylene
Outer Sheath	FR-PVC Insulation thickness 0.2 mm nominal

Shielding	Screened to ensure protection against EMI and for cross talk
Application Standard	ANSI/TIA-568-C.2 category 6 ISO 11801 Class E
Application	Indoor / outdoor installation

VII. Network Setup for all Machineries:

- Assess Network Requirements.
- Plan the Network Layout.
- Network Hardware.
- Set Up a Secure Internet Connection.
- Install and Configure Network Switches.
- Set Up and Configure Routers.
- Install Network Cables and Wireless Access Points.

Schedule C

SI No	Machinery Details	Qty
01	Digital Press	01

SI No.	Specifications and Features	Description
1	Print Speed A4 / A3 / 13x19 / Banner	ALL STOCKS AT RATED SPEED 120 ppm (8.5 x 11"/A4), 60–400 gsm 60 ppm (13 x 19"), 52 - 400 gsm Long Sheet up to (13 X 28") 34 Sheets Extra Large 28" and above up to 20 Sheets
2	Stock Library Manager - Advanced Media Recognition and Connected Stock Management Software for Easy Media Assignment To The Tray And Quick Adjustments.	Standard
3	Number Of Colour Printing Stations	6
4	Number Of Speciality Colours in a Single Pass	6
5	Optional Speciality Colours	CMYK+ GOLD, SILVER, WHITE, PINK, CLEAR and LGC for Texture
6	Standard Size	13" X 19"
7	Extra Large Sheet Size	13 X 47
5	Maximum Print Size	12.83 X 47.09
6	Maximum Gsm Simplex	400 Gsm
7	Maximum Gsm Duplex	400 Gsm
8	Ampv	Up to 475000
9	Duty Cycle	2.25 million
10	Laser	32 Beam VCSEL ROS
11	Print Resolution	Minimum 2400 x 2400
12	Hyper Rip -	8 RIPS 32 GB - (8 X 4 GB RAM)
13	Print Resolution	10 BIT-True 1200 X 1200 DPI Ripping
14	Automatic Gammut Extension Technology	Automatic gammut extension in Fiery server will analyse the file apply pink toner automatically to achieve out of the gammut colours, archives more than 250 Pantone tone colours.
15	Pantone Colour Enabled Fiery Server	Inbuilt Pantone library.
16	JDF Support	JDF v1.8
17	Api	For integration with third party software.
18	Inbuilt Speciality Colour Cost Estimator	Standard
19	Fiery Impose WYSWYG	Standard
20	Hot Folder Job Submission	Standard
21	VDP Support	Standard

22	Press Condition Monitoring Tool, Which Monitors Consumable Health and Consumable Wear and Tear. Temperature and Humidity. Toner Levels. Waste Toner Bottle Status. High Frequency Service Items (HFSI) Status.	Standard
23	Fiery Graphic Arts Pro Package Advance Image Viewer, Colour Inspector, Colour Separation Viewer Colour Replacement, Curve Editor Advanced Preflight, Colour Bar Spot Pro, Spot Colour Mixing	Standard
24	Variable Data Printing Fiery Freeform Create Plus	Standard (Faster Ripping Because Of HYPER Rip)
25	Appe (Adobe Pdf Print Engine)	Version 6.0
26	Fiery Job Expert	Standard
27	Fiery Colour Profiler Suite Software With G7 Standard.	To create G7 standard calibration and custom media ICC colour profiles for accurate and smooth colour reproduction for Photo lab, and packaging and similar application where colour accuracy is critical.
28	Automation (Automatic Press Adjustments)	FRONT and Back Registration Skew and smile correction Auto Density Uniformity Auto 2nd BIAS Transfer Adjustment Auto Calibration & Profiling. Air Blower Adjustment Fuser Performance adjustment
29	Toner	4.7 micron-HD low melt dry Inks for offset like Quality.
30	Fusing	Heavy Duty Single unit belt fuser.
31	Registration Mechanism	Advanced Offset Side lay like Technology with +/- 0.5mm accuracy
32	Alignment Profiles (Registration)	INFINITY STOCK PROFILES
33	Smart De Curler Module	STANDARD
34	Cooling Module	STANDARD
35	Feeding Technology	Advanced Vacuum Feeder.
36	Power Source	Single Phase
37	Power Consumption	Maximum 10KV
38	Digital Front End - Fiery Fs 600 Pro	Fiery® FS 600 Pro software with Automatic gammut extension with pink toner to achieve most of the out of the gamut extension with Fiery EDGE Colour Profiles. Advanced colour engine to create new profiles that's suits for various colour critical Jobs.
		Fiery® FS600 Pro software
		Intel® Xeon® Dual 12 Core Processor