



**REQUEST FOR PROPOSAL (RFP)**  
**for**  
**Procurement of Shelter Enclosures and Upgradation of Power Infrastructure at Mandals**  
**for**  
**Implementation of BharatNet Phase-II in Andhra Pradesh**

**Ref. No- APSFL/BBNL/73/2016/Shelter Enclosures, Dated: 12/05/2020**

## **Andhra Pradesh State FiberNet Limited**

NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station,  
Vijayawada – 520 013

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**Disclaimer**

The information contained in this Request for Proposal document (“**RFP**” or “**Tender**”) including any information subsequently provided to the bidders, (“**bidder/s**”) verbally or in documentary form by Andhra Pradesh State FiberNet Ltd. (APSFL) or any of its employees or advisors, shall at all times be subject to the terms and conditions set out in this Tender document (as may be amended only by APSFL from time to time).

This RFP is not an agreement and is not an offer to any party. The purpose of this RFP is to provide the bidders or any other person with information to formulate their offers (“**Bid**”). This RFP includes statements, which reflect various assumptions and assessments arrived at by APSFL in relation to this scope. This Tender document does not purport to contain all the information each bidder may require. This Tender document may not be appropriate for all persons, and it is not possible for the Managing Director, APSFL and their employees or advisors to consider the objectives, technical expertise and particular needs of each bidder. The assumptions, assessments, statements and information contained herein are made considering the intended objectives of the project, and may not be complete, accurate or adequate. Each bidder must therefore conduct their own analysis of the information contained in this RFP and seek professional advice from appropriate sources.

Information provided in this Tender document to the bidder is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. APSFL accepts no responsibility for the accuracy or otherwise for any interpretation of opinion on law expressed herein.

APSFL, their employees and advisors make no representation or warranty and shall incur no liability to any person, including the bidder under law, statute, rules or regulations or tort, the principles of restitution or unjust enrichment or otherwise for any loss, cost, expense or damage which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, reliability or completeness of the RFP, and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in the selection process as part of this RFP.

APSFL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any bidder upon the statements contained in this RFP. APSFL may in its absolute discretion, but without being under any obligation to do so, can amend or supplement the information in this RFP.

The issue of this tender document does not imply that APSFL is bound to select a bidder or to appoint the selected bidder (as defined hereinafter), for supporting implementation of the project. APSFL reserves the right to reject all or any of the bidders or Bids without assigning any reason whatsoever.

## **RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

The bidder shall bear all the costs associated with or relating to the preparation and submission of Bid pertaining to this RFP including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations, which may be required by. All such costs and expenses will remain with the bidder and APSFL shall not be liable in any manner whatsoever for the same, regardless of the conduct or outcome of the selection process.

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**Acronyms**

<b>S. No.</b>	<b>Abbreviations</b>	<b>Full Form</b>
1	Al	Aluminium
2	APSFL	Andhra Pradesh State FiberNet Limited
3	APSPDCL	Andhra Pradesh Southern Power Distribution Company Limited
4	APEDCL	Andhra Pradesh Eastern Power Distribution Company Limited
5	ABD	As-Build Diagram
6	BBNL	Bharat Broadband Network Limited
7	BOQ	Bill of Quantity
8	Cu	Copper
9	DPR	Detailed Project Report
10	ECV	Estimated Commercial Value
11	GIS	Geographic Information System
12	IS	Indian Standard
13	ISI	Indian Standard Institute
14	KW	Kilowatt
15	LoA	Letter of Award
16	LoA	Letter of Intent
17	LT	Low tension
18	MCB	Miniature Circuit Breaker
19	MS	Mild Steel
20	RFP	Request for Proposal
21	Sq. Mm.	Square Millimetre
22	NIT	Notice Inviting Tender
23	UoM	Unit of Measurement
24	ACDB	Alternating Current Distribution Box



## **1. Introduction**

### **1.1 Invitation to Bid**

Andhra Pradesh State FiberNet Limited (APSFL), a fully owned entity of the Govt. of Andhra Pradesh (AP), having its Registered Office at 3<sup>rd</sup> Floor, NTR Administrative Block, Pandit Nehru Bus Station, NH – 65, Vijayawada – 520001, Andhra Pradesh, India, invites responses (“Proposals”/“Bids”) to this Request for Proposal (“RFP”) for Procurement of Shelter Enclosures for Implementation of BharatNet Phase-II in Andhra Pradesh.

The selected agency has to support APSFL in smooth execution of the project across the state of AP, which includes delivery and installation of Shelter Enclosures and delivery and laying of power cables, installation of Earth pits and enhancement of existing sanctioned power capacity, wherever required in AP.

Interested bidders are advised to study this RFP carefully before submitting the proposals in response to the RFP. Submission of a proposal in response to this RFP shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

Interested bidders may download the RFP from [www.apecurement.gov.in](http://www.apecurement.gov.in). Any subsequent corrigenda/clarifications shall also be made available on the same portal. Proposals must be received not later than time and date mentioned in the key events and dates. Proposals, received after the deadline WILL NOT be considered in this procurement process.

To obtain first-hand information on the assignment, Bidders are encouraged to attend a pre-bid meeting. Attending the pre-bid meeting is optional.

### **1.2 Procedure for Bid Submission**

The Bidder shall submit their response through bid submission process on e-Procurement platform at [www.apecurement.gov.in](http://www.apecurement.gov.in) by following the procedure given below:

In case any bidder is not able to upload the entire set of documents on e-procurement platform, either due to space/size constraint or any other technical glitches, only in such cases, the relevant hard copies (except financial bid) of the left over documents which could not be uploaded on e-procurement platform may be submitted in sealed covers in APSFL office located at 3<sup>rd</sup> Floor, NTR Administrative Block, Pandit Nehru Bus Station, NH-65, Vijayawada, Andhra Pradesh, before the stipulated closure time of bid submission. A self-certificate from the bidder in this regard detailing the reasons for submitting the hard copies, if any, duly bringing out issues faced in uploading them on e-procurement platform, if any, shall also be submitted. The uploaded documents on the e-procurement platform

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and the hard copies submitted in sealed covers, if any, together will be treated as a single set of documents under a bid and will be evaluated accordingly

The bidders shall submit their Pre-Qualification Bid and Price bid online in e-Procurement portal. The bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their Pre-Qualification, and other certificates/documents with clear readability, in the e-Procurement website. The bidder should sign on all the statements, documents, certificates uploaded in the e-Procurement website, owning responsibility for their correctness/authenticity.

### **1.3 Registration with e-Procurement platform**

For registration and online bid submission bidders may contact HELP DESK on [www.apecurement.gov.in](http://www.apecurement.gov.in) or <https://tender.apecurement.gov.in> .

#### **1.3.1 Digital Certificate Authentication**

The bidder shall authenticate the bid with the agency's Digital Certificate for submitting the bid electronically on e-Procurement platform and the bids that are not authenticated by digital certificate of the bidder, will not be accepted on the e-Procurement platform.

For obtaining Digital Signature Certificate, you may please contact: Andhra Pradesh Technology Services Limited, Vijayawada [www.aps.gov.in/](http://www.aps.gov.in/)  
(OR)

You may please contact any Registration Authorities of Certifying Authorities in India. The list of CAs is available in the link provided below.

<https://tender.apecurement.gov.in/DigitalCertificate/signature.html>

#### **1.3.2 Hard Copies**

- a. All the bidders shall submit hard copy of the
  - i. Demand Draft (DD) towards the bid processing fee
  - ii. Bank Guarantee (BG) towards EMDin APSFL office at Vijayawada on or before bid submission due date. All the bidders shall invariably upload the scanned copies of DD and BG in e-Procurement system and this will be the primary requirement to consider the bid responsive.
- b. APSFL shall carry out the technical evaluation solely based on the uploaded certificates/documents, DD towards bid processing fee and BG towards EMD in the e-Procurement system and open the price bids of the responsive and pre-qualification qualified bidders only.
- c. APSFL will notify the successful bidder for submission of original hard copies of all the uploaded documents.
- d. The bidders shall invariably furnish the original Certificates/documents of the uploaded scanned copies to the RFP Inviting Authority before entering into agreement, either

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personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder.

- e. APSFL will not take any responsibility for any delay in receipt/non-receipt of original BG towards EMD, Certificates/Documents from the successful bidder before the stipulated time.

On receipt of documents, APSFL shall ensure genuineness of the BG towards EMD and all other certificates/documents uploaded by the bidder in e-Procurement system in support of the qualification criteria before concluding the agreement.

### **1.3.3 Deactivation of Bidders**

Vide Ref GO Ms. No.174 – I&CAD dated 1-9-2008, if any successful bidder fails to submit the original hard copies of uploaded certificates/documents, BG towards EMD within stipulated time or if any variation is noticed between the uploaded documents and the hardcopies submitted by the bidder, the successful bidder will be suspended from participating in the RFPs on e-Procurement platform for a period of 3 years. The e-Procurement system would deactivate the user ID of such defaulting bidder based on the trigger/recommendation by the RFP Inviting Authority in the system. Besides this, APSFL shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the RFP process for execution of the development schemes taken up by the government. Other conditions as per RFP document are applicable.

The bidder is requested to get a confirmed acknowledgement from the RFP Inviting Authority a proof of Hardcopies submission to avoid any discrepancy.

#### **a. Payment of Transaction Fee**

It is mandatory for all the participant bidders from 1st January 2006 to electronically pay a prescribed non-refundable Transaction fee to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform". The Electronic Payment Gateway accepts all Master and Visa Credit Cards issued by any bank and Direct Debit facility/Net banking to facilitate the transaction. This is in compliance as per G.O.Ms. 13 dated 07.05.2006.

#### **b. Corpus Fund**

As per GO MS No.4, user departments shall collect 0.04% of ECV (Estimated Commercial Value) with a cap of Rs.10,000/- (Rupees ten thousand only) for all works with ECV up to Rs.50 Crores, and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 Crores, from successful bidders on e-Procurement platform before entering into agreement/issue of purchase orders, towards e-procurement fund in favour of Managing Director, APTS. There shall not be any charge towards e-Procurement fund in case of works, goods and services with ECV less than and up to Rs.10 lakhs.

**c. RFP Document**

The bidder is requested to download the RFP document and read all the terms and conditions mentioned in the RFP Document and seek clarification if any from the RFP inviting authority. Any offline bid submission clause in the RFP document could be neglected.

The bidder has to keep track of any changes by viewing the Addendum/Corrigenda issued by the RFP inviting authority from time-to-time in the e-Procurement platform. The Department calling for RFPs shall not be responsible for any claims/issues arising out of this.

**d. Bid Submission Acknowledgement**

The bidder shall complete all the processes and steps required for Bid submission. The system will generate an acknowledgement with a unique bid submission number after completing all the prescribed steps and processes by the bidder. Users may also note that the bids for which an acknowledgement is not generated by the e-procurement system are treated as invalid or not saved in the system. Such invalid bids are not made available to the RFP Inviting Authority for processing the bids. The Government of AP is not responsible for incomplete bid submission by users.

- i. The bidders may contact the Managing Director, APSFL, Vijayawada for any further information / clarifications on e-procurement.
- ii. The bidders need to register on the electronic procurement marketplace of Government of Andhra Pradesh i.e., <http://www.eprocurement.gov.in>. On registration in the e-procurement marketplace they will be provided with a user ID and password using which they can submit bids online.
- iii. While registering on the e-procurement market place, the bidders need to scan and upload the required documents as per the RFP requirements on to their profile. The e-procurement marketplace provides an online self-service registration facility to all such Contractors who are already registered with respective participating departments for supply of specified goods and services.
- iv. All the bidders shall invariably upload the scanned copies of DD/BG in e-Procurement system and this will be the primary requirement to consider the bid as responsive. The Department shall carry out the Technical bid evaluation solely based on the uploaded certificates/documents, DD towards EMD in the e-procurement system and open the price bids of the eligible and responsive bidders. The Department will notify the successful bidder for submission of original hard copies of all uploaded documents and DD towards EMD prior to entering into agreement.

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- v. The bidders shall furnish a declaration in online stating that the soft copies uploaded by them are genuine. Any incorrectness/deviation noticed will be viewed seriously and apart from cancelling the work duly forfeiting the EMD, criminal action will be initiated including suspension of business.

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**1.4 Key Events & Dates**

1.	Name of the Authority	Managing Director Andhra Pradesh State FiberNet Limited
2.	Name of the Assignment	Procurement of Shelter Enclosures and upgradation of power infrastructure for Implementation of BharatNet Phase-II in Andhra Pradesh
3.	RFP Number	APSFL/BBNL/73/2016/Shelter Enclosures, Dated: 12/05/2020
4.	Place of availability of Tender Document (RFPs)	<a href="http://www.apecurement.gov.in">www.apecurement.gov.in</a> <a href="http://apsfl.in/tenders/">http://apsfl.in/tenders/</a>
5.	Place of submission of Bids	<a href="http://www.apecurement.gov.in">www.apecurement.gov.in</a>
6.	Tender Document (RFP)	Request for Proposal Document
7.	Tender Type (Open/Limited/EOI/Auction/Single)	Open
8.	Tender Category (Services/Goods/works)	Works
9.	Type/Form of Contract (Work/Supply/Auction/Service/Buy /Empanelment/Sell)	Works
10.	Re-bid submission before submission date/ last date of submission allowed by the Bidder (Yes/No)	Yes
11.	Is Offline Submission Allowed (Yes/No)	No
12.	Withdrawal Allowed (Yes/No)	Yes
13.	Is Multi Currency Allowed	No (Only Indian Rupees)
14.	Last date and time for receiving queries/clarifications	<b>20/05/2020 at 05:00 PM</b>
15.	Last date and time for submission of Proposal (Proposal Due Date)	<b>10/06/2020 at 03:00 PM</b> The proposal is to be submitted on <a href="http://www.apecurement.gov.in">www.apecurement.gov.in</a> on e-procurement portal.

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16.	Date and time of opening of Pre-qualification on e-procurement platform	<p><b>10/06/2020 at 04:00 PM</b>                  Andhra Pradesh State FiberNet Limited                  NTR Administrative Block, 3rd Floor,                  Pandit Nehru Bus Station, NH -65,                  Vijayawada - 520001                  Web address: <a href="http://www.apsfl.in">http://www.apsfl.in</a>                  Email address: <a href="mailto:apsfl@ap.gov.in">apsfl@ap.gov.in</a></p>
17.	Date and time of opening of financial proposal	To be intimated to the technically qualified agencies at a later date
18.	Bid Processing Fee (Non-refundable)	<p><b>INR 25,000/-</b>  <b>(Twenty Five Thousand Rupees Only)</b>                  In the form of Demand Draft issued by one of the Nationalized / Scheduled Banks in India drawn in favour of '<b>Andhra Pradesh State FiberNet Limited</b>', payable at Vijayawada.</p> <p>Original DD must be submitted in APSFL office at Vijayawada before bid submission date.</p>
19.	Bid Security / EMD (Refundable)	<p><b>INR 10,00,000 (Ten Lakh Rupees Only)</b>                  In the form of Bank Guarantee issued by one of the Nationalized / Scheduled Banks in India drawn in favour of '<b>Andhra Pradesh State FiberNet Limited</b>', payable at Vijayawada.</p> <p>Bid Security / EMD should be valid for a period of 180 (one hundred and eighty) days from bid submission Date. The Bid Security / EMD will be refunded to unsuccessful Applicant agencies within 30 (Thirty) days of completion of selection process.</p> <p>Original BG must be submitted in APSFL office at Vijayawada before bid submission date.</p>

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<p>20.</p>	<p>Performance Bank Guarantee</p>	<p>Performance Bank Guarantee shall be 10% of the total project cost as per the Lol. The validity of PBG shall be 6 months beyond installation and maintenance of project, (i.e. Implementation period plus O&amp;M period of 7 years plus 6 months). The PBG can initially be submitted for a minimum period of 3 years, which shall be extended further, for a total period of 6 months beyond completion of installation and maintenance of project. The Extended/ revised PBG shall be submitted 6 months prior to the date of expiry of the previous PBG.</p> <p>PBG shall be in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Limited, payable at Vijayawada.</p> <p><b>Details of the Bank:</b>  Name of the Beneficiary: ANDHRA PRADESH STATE FIBERNET LIMITED  Bank Name: Andhra Bank  Bank Account Number: 060611100003794  IFSC code: 37AANCA9069P1ZM  MICR Code: 520011025  Branch Code : 000606  Branch Name: Main Branch, RR Apparao Street, Vijayawada, Andhra Pradesh</p>
<p>21.</p>	<p>For any enquiries and clarifications, please contact:</p>	<p>Managing Director,  Andhra Pradesh State FiberNet Limited  NTR Administrative Block, 3rd Floor,  Pandit Nehru Bus Station, Vijayawada - 520001  Web address: <a href="http://www.apsfl.in">http://www.apsfl.in</a>  Email: <a href="mailto:apsfl@ap.gov.in">apsfl@ap.gov.in</a></p>



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22.	Validity of the Proposal	Bidder proposals shall remain valid for a period of 180 days from the bid submission date.
23.	Nature of Bid Process	Two stage a) Stage- I: Pre-Qualification Eligibility b) Stage- II: Commercial Bid
24.	Method of Selection	As per Section 5.3 of this RFP
25.	RFP Tenure	The tenure for the project is completion of scope of work as per RFP

**Note:** Proposals/Bids submitted without Bid Processing Fee and EMD shall be summarily rejected.

## **2. Terms and Conditions**

### **2.1 Earnest Money Deposit (EMD)**

- a. Bidders shall submit an EMD as per the Key events & dates along with their Bids, in the form of Bank Guarantee issued by any Nationalized/ Scheduled Commercial bank in favour of Andhra Pradesh State FiberNet Limited, payable at Vijayawada, and should be valid for 180 days from the due date of the RFP. The format for the Bank Guarantee of EMD is enclosed in 6.3.
- b. The EMD amount is interest free and will be refundable to the unsuccessful bidders without any accrued interest on it.
- c. The bid / proposal submitted without EMD, mentioned above, will be summarily rejected.
- d. The EMD may be forfeited:
  - i. If a bidder withdraws its bid during the period of bid validity.
  - ii. If the successful bidder fails to sign the contract and submit Performance Bank Guarantee within the stipulated period.
  - iii. In case, the documents submitted, or the information furnished by the bidder are found to be not genuine/false.

### **2.2 RFP Amendment**

APSFL may, for any reason, whether at own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Document by amendment. All the amendments made in the document would be published in the website [www.apsfl.in](http://www.apsfl.in) and on the e-procurement platform. APSFL shall not be responsible if the Bidders do not get the individual intimates of such amendments. All such amendments shall be binding on all the Bidders. The Bidders are also advised to visit the aforementioned website on regular basis for checking any updates. APSFL also reserves the rights to amend the dates mentioned in this RFP for Bid process.

### **2.3 Pre-Bid Queries**

APSFL may incorporate any changes in the RFP based on acceptable suggestions received in pre-bid queries. The decision of APSFL regarding acceptability of any suggestion shall be final in this regard and shall not be called upon to question under any circumstances. It may not be possible to answer questions which are received late. The responses to the queries shall be uploaded by way of hosting amendments/clarifications on the website i.e. ([www.apsfl.in](http://www.apsfl.in)) in accordance with the respective clauses of the RFP.

#### **2.4 Cost of Bidding**

The Bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by APSFL to facilitate the evaluation process, and in negotiating a definitive Service Agreement and all such activities related to the Bid process. This RFP does not commit APSFL to award a Contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award of Contract for implementation of Project.

#### **2.5 Site Visit**

The bidder may visit and examine sites at a time to be agreed with APSFL, and obtain all information at their own responsibility that may be necessary for preparing the Bid Document. The costs of visiting the site(s) shall be at Bidder's own expense.

#### **2.6 Language**

The proposal and all correspondence and documents shall be written in English. In case of accompanying literature or brochures etc., being in a language other than English, a certified translation should accompany the documents as a part of the RFP. All proposals and accompanying documentation will become the property of APSFL.

#### **2.7 Bid Prices**

- a. The Bidder shall indicate the price in the prescribed format only.
- b. The Bidder shall prepare the Bid based on details provided in the RFP. It must be clearly understood that the Scope of Work is intended to give the Bidder an idea about the order and magnitude of the work and is not in any way exhaustive and guaranteed by APSFL. The Bidder shall carry out all the tasks in accordance with the requirement of the RFP and due diligence and it shall be the responsibility of the Bidder to fully meet all requirements of RFP.
- c. Prices shall be quoted in Indian Rupees (INR), exclusive of taxes.
- d. Minimum 20% of the total quoted Bid value should be for OPEX period (total maintenance cost for 7 years). Bids received with less than 20% towards OPEX cost of the total bid value will be rejected.

#### **2.8 Bidder Representative**

- a. The Bidder representative may be either the Principal Officer or duly Authorized Representative, in either cases shall submit a Certificate of Authority. All Certificates and documents (including any clarifications sought and any subsequent correspondences) received hereby, shall, as far as possible, be furnished and signed by the authorized representative or the Principal Officer.

- b. The authorization shall be indicated by written Power of Attorney accompanying the Qualification Bid.

### **2.9 Bid Validity**

The proposals shall be valid for a period of 180 days from the date of submission of Bids. On completion of the validity period, unless the Bidder withdraws proposal in writing, it will be deemed to be valid until such time that the Bidder formally (in writing) withdraws proposal.

### **2.10 Modification and Withdrawal**

No proposal may be modified / withdrawn in the interval between the deadline for submission of proposals and the expiration of the validity period specified by the Bidder on the proposal form. In case the Bidder wishes to withdraw the Bid after the date of opening of the bids, the bidder may do so, but the EMD of the Bidder shall be forfeited.

### **2.11 Opening of Bids**

The Bids (Pre-Qualification and Commercial) will be opened on the e-procurement platform on the date and time as specified in the RFP schedule.

### **2.12 Evaluation of Bids**

- a. The Bids of only those Bidders, whose Bid Processing Fee and EMD are in order, only, will be accepted.
- b. Bidders need to fulfill all the Qualification conditions mentioned in the RFP. The technical committee will examine the Bids to determine whether they are complete, whether the Bid format conforms to the RFP requirements, whether documents have been properly signed, and whether the Bids are generally in order.
- c. Bids of Bidders whose Qualification proposal does not meet the set criteria shall be rejected forthwith.
- d. The Authority/Technical Committee may seek clarifications/inputs from the bidders wherever deemed necessary. The primary function of clarifications in the evaluation process is to clarify ambiguities and uncertainties arising out of the evaluation of the Bid Documents. Clarifications provide the opportunity for the Committee to state its requirements clearly and for the Bidder to more clearly state its proposal.

### **2.13 Bids Not Considered For Evaluation**

Bids that are rejected during the Bid opening process due to incomplete documentation or late receipt shall not be considered for further evaluation.

### **2.14 Pre-Qualification**

The pre-qualification evaluation shall be done as mentioned in this RFP.

**2.15 Award Criteria**

Evaluation Committee of the Authority will open the Price Bids of the bidders who have met the conditions as per the Pre-Qualification Criteria in this RFP.

**2.16 Rectification of Errors**

Bidders are advised to exercise adequate care in quoting the prices. No excuse for corrections in the quoted price will be entertained after the proposals are opened. All corrections, if any, should be initialled by the person signing the proposal form before submission, failing which the figures for such items may not be considered. Errors in proposals will be corrected as per the unit rates quoted.

**2.17 Contacting APSFL**

Any effort by a Bidder to influence the RFP Issuing Authority in its decision on Bid evaluation, Bid comparison or contract award may result in disqualification of the Bidder's Bid and also forfeiture of Bid security.

**2.18 APSFL's right to vary Scope of Work**

APSFL may at any time, by a written order given to the Bidder, make changes to the Scope of the work as specified below:

If any such change causes an increase or decrease in the cost of or the time required for the Bidder's performance of any part of the work under the Agreement, whether changed or not changed by the order, an equitable adjustment shall be made in the Agreement Value or time schedule, or both, and the Agreement shall accordingly be amended. Any claims by the Bidder for adjustment under this Clause must be asserted within thirty (30) days from date of the Bidder's receipt of APSFL's order for change. The unit rate of each item quoted/accepted by the selected Bidder shall however not change.

**2.19 APSFL's Right to Accept /Reject**

APSFL reserves the right to accept or reject any proposal, and to annul the RFP process and reject all proposals at any time prior to award of work, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for APSFL's action.

**2.20 Signing of Agreement**

The signing of agreement for the project is as follows:

**2.20.1 Signing of Agreement**

APSFL notifies the successful Bidder that its proposal has been accepted and APSFL shall enter into an Agreement with the successful Bidder as per the Master Service Agreement prescribed in this RFP. The signing of agreement will constitute the formation of the Agreement. Upon

the successful Bidder's furnishing of performance security, APSFL will promptly notify each unsuccessful Bidder and return their EMD.

**2.20.2 Discharge of Bid Security (EMD)**

Prior to signing of the Agreement, APSFL shall promptly request the Selected Bidder to provide Performance Bank Guarantee pursuant to this RFP. On receipt of the Performance Bank Guarantee, the Bid security (EMD) of successful Bidder will be released. The EMD amount of successful bidder can also be converted as part of the Performance Guarantee.

**2.20.3 Expenses for the Agreement**

The incidental expenses of execution of Agreement shall be borne by the successful Bidder.

**2.20.4 Failure to abide by the Agreement**

Failure of the successful Bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event APSFL may forfeit the EMD/ Performance Bank Guarantee. The contract may be awarded to the next lowest bidder, in such case.

**2.21 Bank Guarantee for Performance**

- a. As a condition precedent to execution of the Agreement, the Successful Bidder shall ensure submission of the requisite unconditional irrevocable Bank Guarantee, in the prescribed Format within 15 days of receipt of the LoI as a Performance Bank Guarantee (PBG) for the services to be performed under the resultant Agreement. The Bank Guarantee shall be equivalent to 10% of the Total Project Cost and must be issued by a Nationalized/Scheduled Commercial Bank. The Performance Bank Guarantee shall be valid for the term of the resultant Agreement and shall be renewed and maintained as necessary by the bidder for the term of the resultant Agreement, and extensions if any.
- b. The Performance Bank Guarantee (PBG) should be from a Nationalized/Scheduled Commercial Bank acceptable to APSFL, in the format prescribed in this RFP as per section 6.3, payable on demand, for the due performance and fulfillment of the Agreement by the Bidder.
- c. This Performance Bank Guarantee shall be for an amount equivalent to 10% of Total Contract Value of the successful Bidder. All incidental charges whatsoever such as premium, commission etc., with respect to the Performance Guarantee shall be borne by the Bidder. The Performance Bank Guarantee shall be valid for 60 days post completion of the Payment terms as per RFP. Subject to the terms and conditions in the Performance Bank Guarantee, at the end of project the final acceptance sign off, the Performance Bank Guarantee may be discharged/ returned by APSFL upon being satisfied that there has been due performance of obligations of the Bidder under the agreement. However, no interest shall be payable on Performance Bank Guarantee.

## **2.22 Rejection Criteria**

- a. The proposal of a Bidder is liable to be disqualified in the following cases or in case Bidder fails to meet the bidding requirements as indicated in this RFP:
  - i. Proposal not submitted in accordance with the procedure and formats prescribed in this document.
  - ii. During validity of proposal, or its extended period after last date and time for submission of Bids, if any, the Bidder increases the quoted prices.
  - iii. The Bidder proposing a “Conditional-Proposal”.
  - iv. Proposal is received in incomplete form.
  - v. Proposal is not accompanied by all the requisite documents.
  - vi. Information submitted in Qualification proposal is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the Agreement (no matter at what stage) or during the tenure of Agreement including the extension period if any.
  - vii. Bidder tries to influence the proposal evaluation process by unlawful means at any point of time during the Bid process.
  - viii. In case any Bidder submits multiple proposals or if common interests are found in two or more Bidders, the Bids are likely to be disqualified.
  - ix. Bidder fails to deposit the Performance Bank Guarantee prior to signing of the Agreement or fails to enter into an Agreement within 15 working days of the date of issuance of Lol or within such extended period, as may be specified by APSFL.
- b. Bidders may specifically note that while evaluating the proposals, if it comes to APSFL’s knowledge expressly or implied, that some Bidders may have colluded in any manner whatsoever or otherwise joined to form an alliance resulting in delaying the processing of proposal then the Bidders so involved are liable to be disqualified for this Contract as well as for a further period of three years from participation in any of the RFPs floated by APSFL.
- c. APSFL will reject a proposal for award if it determines that the Bidder recommended for award, or any of its personnel, or its agents or, Agencies and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the Contract.

## **2.23 Concessions permissible under statutes**

Bidder, while quoting against this RFP, must take cognizance of all concessions permissible under the statutes including the benefit under Central Sale Tax Act, 1956, etc. failing which it will have to bear extra cost where Bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. APSFL will not take any responsibility towards this.

## **2.24 Termination of Contract**

Following clauses shall be applicable, in case of termination of contract:

**2.24.1 Termination for default**

APSFL may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 30 days, sent to the successful bidder, terminate the contract in whole or part (i) if the successful bidder fails to deliver any or all of the goods and services within the time period(s) specified in the Contract or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by APSFL; or (ii) if the successful bidder fails to perform any of the obligation(s) under the contract; or (iii) if the successful bidder, in the judgment of APSFL, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.

In the event APSFL terminates the Contract in whole or in part, APSFL may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those and delivered and the successful bidder shall be liable to APSFL for any additional costs for such similar goods. However, the successful bidder shall continue the performance of the contract to the extent not terminated.

**2.24.2 Termination for Insolvency**

APSFL may at any time terminate the Contract by giving written notice with a notice period of 30 days to the successful bidder, if the successful bidder becomes bankrupt or otherwise insolvent. In this event, the termination will be without compensation to the successful bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to APSFL.

**2.24.3 Termination for Convenience**

APSFL may, by written notice, with a notice period of 30 days sent to the successful bidder, may terminate the Contract, in completely or in part, at any time for its convenience. The notice of termination shall specify that termination is for APSFL's convenience, the extent to which performance of work under the Contract is terminated and the date upon which such termination becomes effective. On termination, the successful bidder is entitled for compensation to the extent of work done till the date of termination.

**2.25 Submission of Technical Solution and Approach Methodology**

The bidder shall be required to submit the detailed technical solution document entailing minimum technical specifications of material mentioned in the RFP, design/ drawing document, wind speed test report, detailed implementation approach methodology, etc. The technical solution documents shall need to be submitted to APSFL within 7 days of issuance of LoA. If in case, there is increase/ decrease in the technical specifications of material, prior approval needs to be taken from APSFL. APSFL reserve rights to cancel the bid, if in case the technical solution document is not in compliance with the requirements mentioned in the RFP.



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Broad areas to be covered in technical solution documents are given below, but not limited to:

- a) Clear articulation and description of the general layout diagram of the shelter along with civil foundation
- b) Make and model of the essential components viz. Air Conditioner, Natural cooling louvers, power cables, MCBs, Rewireable Porcelain cut-outs
- c) Power infrastructure layout, including LED, MCBs, universal socket
- d) Remote monitoring solution for air conditioner, from NOC

**Note:** If in case of change of make and model of the components from the once specified in the technical solution document during the project, prior approval from APSFL needs to be taken.

### **2.26 Execution of Work Order**

The successful bidder should nominate and intimate APSFL, a Manager for Single Point of Contact (SPoC), who should be responsible for effective delivery of work complying with all the terms and conditions. The successful bidder should ensure that the Manager fully familiarizes with the RFP Conditions, Scope of Work and deliverables.

### **2.27 Extra/ new item**

Extra items of work shall not vitiate the contract. The reimbursement for extra items shall be validated by the APSFL/ any agency appointed by APSFL and cleared by the Authority. The Contractor shall be bound to execute extra items of work as directed by the Authority. The rates for extra items shall be worked out based on the unit rates quoted by the Bidder in Price Bid/as per mutually agreed terms and conditions. For new items which are beyond the scope of the BoQ, the APSFL/ any agency appointed by APSFL or any authorized official/ agency shall validate the requirements and necessity of such new/extra items after due diligence, based on site conditions and work contingencies

### **2.28 Liquidated Damages (LD)**

- a. Liquidated Damage will be levied as per the penalty and payment schedule subject to a maximum of 10% of the total value of the contract for non-fulfilment of delivery schedule. Any delay due to the Force Majeure conditions or delay not due to the successful bidder will be excluded from the delivery schedule.
- b. In the event of failure by the successful bidder to fulfil the delivery conditions, Tender Inviting Authority at its discretion may initiate any of the action(s) as given below:
  - i. Extension of time may be permitted to complete the work.
  - ii. Additional resources will be requested for speeding up the work.
  - iii. Liquidated Damages will be levied.
  - iv. Contract with the successful bidder may be terminated as per the Termination clause.

- v. Any other action as may be deemed fit by Tender Inviting Authority in the best interest of the department.

### **2.29 Force Majeure**

Neither Tender Inviting Authority nor the successful bidder shall be liable to the other for any delay or failure in the performance of their respective obligations except causes or contingencies beyond their reasonable control due to Force Majeure conditions such as:

- a. Any act of God such as lighting, earthquake, landslide, etc. or other events of natural disaster of rare severity. Meteorites or objects falling from aircraft or other aerial devices, travelling at high speeds
- b. Fire or explosion, chemical or radioactive contamination or ionizing radiation
- c. Pandemic or Epidemic or plague. Act of war (whether declared or undeclared), threat of war, invasion, armed conflict or act of foreign enemy, unexpected call up of armed forces, blockade, embargo, revolution, riot, religious strife, bombs or civil commotion, sabotage, and terrorism

### **2.30 Arbitration**

In case of any dispute, the matter will be referred to a Sole Arbitrator to be appointed by APSFL in accordance with the "Arbitration and Conciliation Act 1996". The arbitration shall be held in Andhra Pradesh, India and in English.

### **2.31 Exit Management Plan**

- a. An Exit Management plan shall be furnished by bidder in writing to the Authority within 90 days from the date of signing this contract, which shall deal with at least the following aspects of exit management in relation to the contract and in relation to the project implementation and service level monitoring.
  - i. A detailed program of the transfer process that could be used in conjunction with a Replacement Service Provider including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer;
  - ii. Plans for provision of contingent support to Project and Replacement Service Provider for a reasonable period after transfer;
  - iii. Exit Management Plan in case of normal termination of Contract Period
  - iv. Exit Management Plan in case of any eventuality due to which Project is terminated before the Contract Period
  - v. Exit Management Plan in case of termination of Supplier
- b. Exit Management plan at the minimum adhere the following:
  - i. Three (3) Months of the support to Replacement Service Provider post termination of contract.
  - ii. Complete handover of the reports, documents and other relevant items to the

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Replacement Service Provider/Authority.

- iii. Certificate of acceptance from authorized representative of Replacement Service Provider issued to supplier on successful completion of handover and knowledge transfer.
- iv. Tentative exit management schedule/Matrix is annexed
- c. Each Exit Management Plan shall be presented by the Service Provider to and approved by the Managing Director, APSFL or its nominated agencies.
- d. In the event of termination or expiry of contract, Project Implementation, or Service Level Monitoring, both PIA and Authority shall comply with the Exit Management Plan.
- e. During the exit management period, the Service Provider shall use its best efforts to deliver the services.

### **3. Project Background**

#### **3.1 Project Background**

BharatNet Phase-II is a public purpose project of APSFL, a Government of Andhra Pradesh enterprise, aimed at providing internet connectivity and e-governance services to rural population of the state of Andhra Pradesh.

Several measures have been considered to improve the performance and efficiency of the project. As part of the initiative, APSFL has decided that Mandal/ Master Mandal level electronic equipment will be placed at APSFL PoP locations, in sub-stations, for ease of access and operational convenience.

As part of the scope of BharatNet Phase-II, APSFL wants to install shelter enclosures that will house and protect network racks and network communication equipment at sub-stations. The shelter enclosures will host the rack and equipment, which are to be installed as part of the scope of BharatNet Phase-II. Additionally, a detailed survey was carried out across all Master Mandal and Mandal locations. Based on the survey it was observed that there are certain challenges pertaining to the power infrastructure at Mandal and Master Mandal locations. In existing APSFL infrastructure, sanctioned power capacity and cable rating are not sufficient to take load of proposed equipment in BharatNet phase-II. Hence, to avoid any fault related to overloading, upgradation of power capacity and LT power cable with high capacity are required at Master Mandal and Mandal locations in scope of BharatNet Phase-II.

Moreover, various IT and non-IT components in the Master Mandal and Mandal locations would need earthing to meet performance quality for respective systems/equipment and also to ensure personnel safety of resources managing those equipment. The main objective of the earthing system is to provide an alternative path for currents to flow so that accidents due to electric shock and damage to the equipment can be avoided.

Following benefits are envisaged after deployment of shelters and upgradation of power infrastructure:

- a. As the active infrastructure being installed is a sensitive and highly priced item, it needs to be secured to avoid any unauthorized access.
- b. Once the active infrastructure is placed in a shelter enclosure, the operation and maintenance team will have no dependency on the sub-stations staff to provide access for the maintenance of network elements.
- c. Currently the space allocated for active infrastructure was in a room, which houses other infrastructure, and in this case, the active infrastructure is prone to any accidents caused by other infrastructure lying in the same premises. Once the shelter is deployed, the active infrastructure will be safe from such potential hazards.

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- d. High rated LT Power cable will prevent overload faults and provide safe limit power to equipment.
- e. Enhancing the sanctioned power capacity to ensure optimal power to serve equipment.
- f. Earthing prevents damage to electrical equipment by preventing excessive current from running through the circuit. Additionally, earthing keeps people safe by preventing electric shocks.

### **3.2 Project Scope of procurement and installation of shelter enclosure**

- a. Installation of shelter enclosures that will house and protect network racks and network communication equipment at Mandal Sub-stations. These shelter enclosures will host the rack and equipment, which are to be installed as part of the scope of BharatNet Phase-II.

### **3.3 Project Scope of upgradation of power infrastructure**

- a. The supplier will supply LT Power cable, Earth pits, poles, MCB Box with required MCBs & other required accessories (cables etc.) and cut out fuse units as per the specifications provided.
- b. The bidder will be responsible for installation & testing of LT power cable, Earth pits, poles, MCBs and fuse units as per specifications provided.
- c. The bidder will be responsible for liaising with electricity departments for enhancement of existing sanctioned power at Master Mandal & Mandal locations, (as provided in Annexure-A) including applying to Electricity dept.
- d. The bidder will be responsible for providing, laying and commissioning of independent earth wire of proper rating from main pit to installed electronics devices. The cable shall be laid through MS conduit.

### **3.4 Project Type**

The Project will be rolled-out across all the Mandal sub-stations as provided in Annexure - A in the state of Andhra Pradesh and the Supplier shall perform all the activities pertaining to the successful implementation of the Project as per the timelines.

### **3.5 Project Locations**

The Project shall be implemented across combine count of 613 Mandals & Master Mandals in Andhra Pradesh.

**4. Scope of Work**

**4.1 Procurement and installation of shelter enclosure**

Following are the broad scope of work but not limited to, for procurement and installation of shelter enclosure:

- a. Supplier will supply shelter enclosures as per the specifications provided.
- b. Supplier will carry out site survey prior to finalizing the location and placement of shelters
- c. Supplier will be responsible for installation at the site
- d. Comprehensive maintenance for a period of 7 years from the start of O&M phase (with spares). The SLA/KPI shall be same for the entire 7 years.
- e. In respect of the above activities, Supplier shall submit installation report to APSFL, which would determine completion of work, eligibility for release of payments for work performed based on scope defined.

**4.1.1. Technical Specifications of Shelter Enclosures**

<b>S. No.</b>	<b>Item</b>	<b>Description</b>
1	Internal dimensions of shelter	Insulated Telecom Shelter Size (L*B*H) a) 7m *3m *3m -- 62 Units ('Master Mandal Shelter') b) 5m *3m *3m -- 551 Units ('Mandal Shelter')
2	Core	60 mm thick polyurethane Foam having density of 40±2 KGs/Cu. Mt.
3	Thermal conductivity	Thermal conductivity: < 0.023 W/M Deg K at 10deg Mean temperature.
4	Corrugated roofing sheet (secondary Roofing Sheet)	0.5 mm thick corrugated Pre Painted Profile sheet for free flow of Water
5	Modular walls & Ceiling panel composite	Wall & Ceiling PUF Panel- 0.5 mm inner & 0.5 mm outer pre coated skins with PUF of 59 mm
6	Integral projected roof	0.5 mm corrugated Pre Painted Profile sheet roof shall be cambered and projected min. 100 mm on all four sides to give rain protection.
7	Base frame with ISMB (GI)	Bolted designed steel channel frame to withstand 800 kg/Sq.mt floor load
8	Floor external skin	0.5 mm corrugated Pre Painted Profile sheet to withstand floor load of 800 Kgs / Sq. Mt uniformly
9	Floor insulation	61.5 mm thick PUF
10	Floor internal	18 mm thick plywood, PUF-61.5 mm. Antistatic flooring – 2 mm

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<b>S. No.</b>	<b>Item</b>	<b>Description</b>
11	Door	Insulated Metallic door with clear opening 1100 mm X 2000 mm fitted with rubber environmental gasket / pilferage protection techniques to be used while construction of door
12	Door locks standard	Single point concealed lock – key (with 3 nos. key) and door handle with provision for rain water protection along with addition L drop for safety
13	Door hinges	Stainless steel pickproof Hinges 4 Nos.
14	Door rain guard	Projected rain guard shall be provided above the door for smooth operations
15	Cut-outs	Guidable cable and AC cutouts (as detailed below) to be covered by Canopy/ rubber panel and Silicon Sealant for water tightness.
16	3 steps ladder	Adjustable GI ladder to be hooked on to the shelter at the door entrance.
17	Cable duct	100mm. PVC cable duct on all points of racks and 40mm. PVC duct for all electrical points
18	Door stopper	Solid hook for holding the door
19	Civil foundation with ISMB and ISMC	Civil Foundation with ISMB and ISMC: The standard galvanised ISMB - 150 mm X 75 mm and ISMC - 75 mm X 40 mm, shall be secured to the foundation bolts using skid clamps.
20	Smoke detector	1 nos.
21	LED wall mounted lights	6 nos. of minimum 20 Watt
22	Wind speed tolerance	150 Km/h
23	Fire extinguisher clean agent	1 nos. - 5 Kg; ISI marked
24	Shelter electrical	Power distribution box with MCB along with switch and universal sockets (three and five pin) are required with cabling for internal lightening of shelter / additional MCB to be incorporated in ACDB where industrial grade air conditioner to be install at site
25	Civil Foundation Specifications	a) 6 Columns, 3 on either side b) For each column, excavation should be 1.2m X 1.2m X 0.8m (L X B X D) c) M10 grade PCC (Plain Cement Concrete) of 1m X 1m X 0.1m (L X B X D) for each column d) Footing for each column to be 1m X 1m X 0.2m (L X B X D)

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S. No.	Item	Description
		e) Each column size should be 0.4m*0.4m*1m (L X B X D) f) Out of the 1.0m column height, 0.4m should be under the ground level and remaining 0.6m should be above the ground level g) M20 Grade RCC (Reinforced Cement Concrete) shall be used for column and footing or as per IS 456:2000 h) Quantity of steel shall comply with IS 456:2000 standard i) Steel bars should have high quality, reputed brands and bear ISI mark j) Cement should have high quality, reputed brands and bear ISI mark k) Base plate of size 250mm x 250mm with required anchor bolt need to be grouted on top of column l) Extended ISMB & ISMC for Outdoor AC installation: As per the requirement for successful implementation for air conditioning unit

**4.1.2. Technical Specifications of Air Conditioner**

The following are the technical specifications of Air Conditioner for Shelter enclosure of size 7m \*3m \*3m (62 Nos.)

S. No.	Item	Description	Quantity
1	Air conditioner	<b>Industrial Grade Air Conditioner:</b> 1.5 Ton AC; AC out door units to be mounted on frame (Detailed specs included below)	62 Units

The air conditioning is required for critical application i.e. for maintaining the temperature for critical sub-station control and protection equipment. To provide redundancy for such critical applications, each kiosk shall be installed with environment control system comprising of two units of air conditioners working in conjunction through a microprocessor-based controller for desired operation. The system shall be designed for 24 Hours, 365 Days of the year to maintain the inside kiosk temperature for proper operation of the critical equipment. One of the air-conditioner shall be running at a time and on failure of the same or as described hereunder, the other unit shall start automatically. To ensure longer life of the system, the redundant units shall also be running in cyclic operation through the controller. However, during running of one air-conditioner unit, if inside temperature of the shelter reaches to a predefined (e.g. 35° C), the other unit shall start running to maintain the temperature to



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specified value (e.g. 23° ± 2° C) and gives alarm for such situation. After achieving this temperature, the other unit shall again shut off.

The following are the technical specifications of Air Conditioner:

S. No.	Parameter	Unit	Particulars
<b>Twin circuit Air Conditioning system</b>			
1	Total Tonnage of Complete Unit	TR	3 (2*1.5TR)
2	Tonnage of each unit	TR	1.5TR
3	Applicable Standards		Meets IS:8148
<b>Compressor</b>			
4	Scroll Compressor Offered		Yes (Hermetically Sealed)
5	Number of Compressors in Complete Unit	Nos.	Two
6	MTBF	Hours	25,000 working hours
7	Life of Compressor	Years	10 years for machine
8	Continuous running time	-	Always on (7 days, 24 hours and 365 days)
<b>Controller</b>			
9	Controller type	-	Microprocessor
10	Machine type	-	Twin machine
11	Grade	-	Industry / commercial grade AC
12	Communication	-	Remote Monitoring of AC unit from NOC for any faults and damages, to be ensured
<b>Installation</b>			
13	Wall mounted	-	Yes
14	Outside mountable	-	Yes
15	Whether bottom support is required	-	Yes; AC outdoor unit to be fixed with Shelter on extended ISMB and ISMC
<b>Electrical Data</b>			
16	Supply with Variation	Volt, Hz	230V±15%, 50Hz, 1PH / 3PH

**Note:** The air conditioning system shall be provided in the kiosks to be used for housing panels having control and protection IEDs for performing sub-station automation and protection functions. These kiosks shall be placed in the switchyard area generally unmanned; therefore, the air-conditioning system shall be rugged, reliable, maintenance free and designed for long life.

**4.1.3. Technical Specifications of Natural Cooling Louvers**

The following are the technical specifications of Natural Cooling Louvers for Shelter enclosure of size 5m \*3m \*3m (551 Nos)

S. No.	Item	Description	Quantity
1	Natural Cooling Louvers	a) Material GI powder coated with sufficient thickness. b) Louver Size of minimum 300 mm X 300 mm (L X H) with GI fitted with filter along with industrial exhaust fan with thermostat. c) 2 Nos. for each Shelter Enclosure. d) Canopy to be provided both louver and exhaust fan e) Requisite distribution board with switch and socket to be provisioned	551 Units

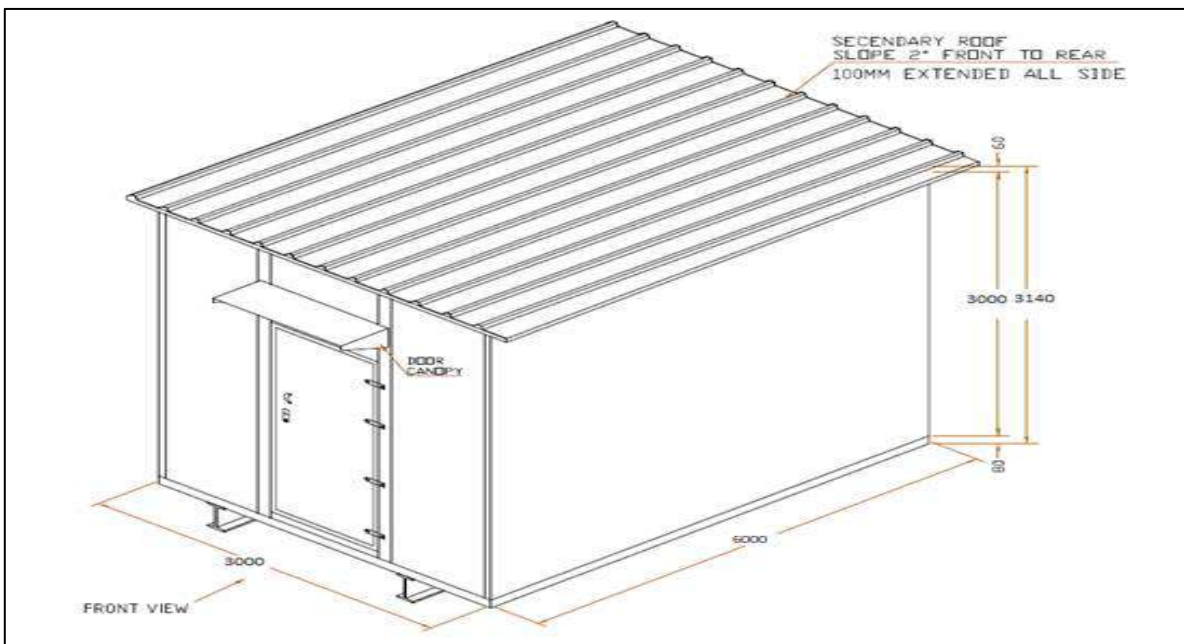
**4.1.4. Functional Specifications of Shelter Enclosures**

Shelter/ Container Enclosure will be implemented by the Bidder as a turnkey solution as per the specification mentioned above. Approximate size of each Shelter/ Container Enclosure would be as provided above. Apart from the technical specifications mentioned above, the functional specification for Shelter Enclosure is as follows:

S. No.	Parameters
1	a. The Shelter/ Container enclosure should withstand extreme temperatures at external surface without creating any damage to internal equipment. Shelter/ Container enclosure must be self-supporting, fireproof room comprising modular wall, floor and ceiling elements and shall withstand wind speed of 150 Kms per Hour. Design calculation for wind speed test to be submitted as part of technical solution document, by successful bidder along with PBG. b. Its modular design should be fully adapted to on- site area and height dimensions. The Shelter/ Container enclosure should have opening for door systems, cable duct, lighting system, air conditioning ducts and other components. c. Colour sheet of Panels shall be RAL-9002 or RAL-9003 (inside and outside of Shelter). Coloured logo, as specified by APSFL, as specified at the time of agreement, needs to be provided on two sides of the Shelter, in the size of 3 ft. x 2 ft. with painted/vinyl stickers. d. The enclosure is to be made of corrosion resistant material, electrostatic protection coating material and smoke detectors are to be installed in each Shelter/ Container enclosure. It has to be installed on a concrete plinth. a. Bidder needs to plan concrete plinth basis on the site survey and conditions.

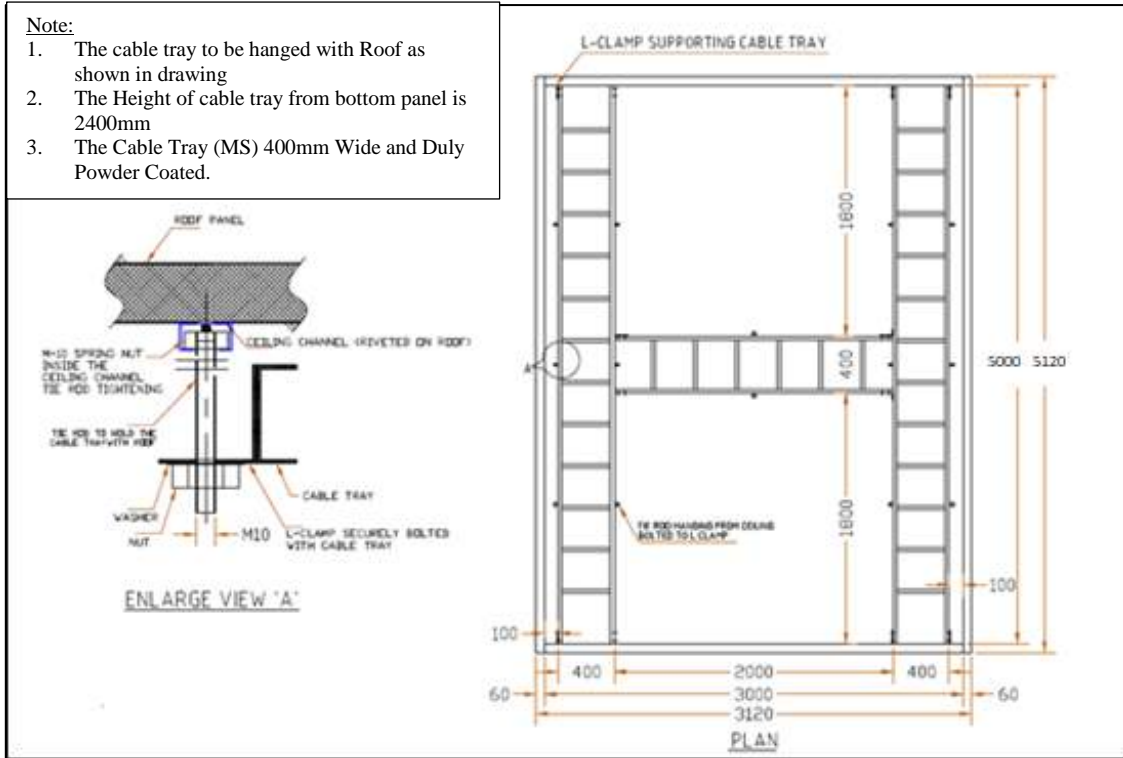
S. No.	Parameters
2	<p>a. <b>Door and access control</b> – The door system should have dimension as mentioned in technical specification and to be fire resistant door. It is to be fitted around with hollow rubber seal and expanding high temperature seal to prevent the penetration of heat, fire extinguishing water and acrid gases. Additionally the door system must comply with the following:-</p> <ul style="list-style-type: none"> <li>i. The door is to be fitted with a locking system, which should include high security bolt work and locking bolt. The door lock should have at least three keys and keys should not be removable from the lock in unlocked state</li> <li>ii. Emergency Exit door is not required.</li> </ul>
3	<p>a. <b>Ducting and structured cabling</b> - The Shelter/ Container Enclosure should come equipped with separate ducts for power supply distribution and communication cables. Cable inlet to the Shelter/ Container Enclosure has to be fire proof, pressurised water and gas tight system. Bidder is responsible for providing detailed drawing of placement of cable inlet as part of technical solution document, for up to 20 number of 24F to 96F optical fiber cable and 2 number of power cable. The make and model of the Cable Inlet should be from reputed OEM.</p> <p>b. The duct should be designed in such a way that it should be possible to do retro fitment in future. The duct should be positioned in accordance with the racks for structured snarl free wiring. The size of the power cable duct and communication cable duct should be such that it must be possible to accommodate wiring needs for computer, network and UPS equipment.</p>

**4.1.5. Layered View of the System**



Isometric View (Illustrative)

## RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure



### 4.2 Upgradation of Power infrastructure at Mandal

Following are the broad scope of work but not limited to, for upgradation of power infrastructure:

- a. Approx. 60 Meter Armored/unarmored PVC Insulated Aluminum cable (3.5 Core, 25 Square mm.) to be laid and commissioned at each of 56 Master Mandal locations
- b. Approx. 50 Meter Armored/unarmored PVC Insulated Aluminum cable (3.5 Core, 10 Square mm.) to be laid and commissioned at each of 100 Mandal/Master Mandal locations.
- c. Approx. 50 Meter Armored/unarmored PVC Insulated Aluminum cable (4 Core, 6 Square mm.) to be laid and commissioned at each of 457 Mandal locations.
- d. Armored cable will be underground and unarmored cable will be overhead and to be laid as per site conditions.
- e. Laying of overhead and underground cable distance may vary as per actual site conditions.
- f. Earth pits (Chemical Copper Bonded) with required accessories to be installed at all Master Mandal and Mandal locations.
- g. Enhancement of existing sanctioned power capacity by additional (8-10KW) at each of 56 Master Mandal locations.
- h. Enhancement of existing sanctioned power capacity by additional (2 KW) at each of 557 Mandal locations.

## **RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

- i. Rewireable Porcelain Cut-Out Fuse Units (415 V, 200 Amps) shall be installed and commissioned at each of 11 Master Mandal locations (3 at each location).
- j. Rewireable Porcelain Cut-Out Fuse Units (415 V, 100 Amps) shall be installed and commissioned at each of 45 Master Mandal locations (3 at each location).
- k. Rewireable Porcelain Cut-Out Fuse Units (415 V, 63 Amps) shall be installed and commissioned at each of 557 Mandal locations (3 at each location).
- l. Supply, installation & commissioning of 1x125 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size MCB box and required accessories i.e. cables etc. at each of 11 Master Mandal locations.
- m. Supply, installation & commissioning of 1x100 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size MCB box and required accessories i.e. cables etc. at each of 45 Master Mandal locations.
- n. Supply, installation & commissioning of 1x63 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size MCB box and required accessories i.e. cables etc. at each of 50 Mandal locations.
- o. Supply, installation & commissioning of 1x40 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size MCB box and required accessories i.e. cables etc. at each of 507 Mandal locations.
- p. Supply and deployment of PSCC/GI poles, as required, for stringing of cables. PSCC poles (8 meter, 200 kg) and GI poles (8 meter, 100 mm) shall be installed at the locations wherever overhead cable span length is more than 30 meter.

In respect of the above activities, supplier shall submit installation and other required reports to APSFL, which would determine completion of work, eligibility for release of payments for work performed based on scope defined.

### **4.2.1 Technical Specifications of Rewirable Porcelain Cut-Out Fuse Unit**

- a. The fuses shall be suitable for continuous operation at AC 415 V and frequency 50 Hz.
- b. The rated currents of fuse units shall be 63 Amps, 100 Amps and 200 Amps and must comply with IS: 2086: 1993 or latest amendment.
- c. The tinned-copper fuse wires shall conform to IS: 9926: 1981 or latest amendment.
- d. All the fuse units shall bear ISI mark.

### **4.2.2 Technical specifications of MCB unit**

- a. MCB shall comply with IS/IEC 60898-1 2002 and IEC 60947-2 or as per revised standards.
- b. MCB shall be made of self-extinguishing tropicalized (95% humidity, 55-degree centigrade) material.

- c. The terminal shall be protected against any finger contact to IP20 degree of protection with no restriction for line and load.
- d. All the MCB units shall bear ISI mark.
- e. MCB rating shall be 4 pole 125 Amps, 4 pole 100 Amps and 4 pole 40 Amps ('c' curve) and shall include standard size box with requisite accessories.
- f. The breaking capacity of MCB should be 10 kA.
- g. Metal Distribution box for three phase and neutral supply distribution with 4 Pole MCB as incomer.
- h. Distribution box should have 6 way module, factory fitted circuits/ bar, neutral link bar etc. to install the distribution MCB units in each phase for all Master Mandal and Mandal locations.
- i. Distribution box should conform to IS 8623-III.
- j. Main incomer shall be connected with meter supply.

#### **4.2.3 Technical specifications of LT power cable**

Various equipment installed at Master Mandal and Mandal locations would require a specified limit of power to perform their function and this power would be transmitted from transformer to equipment through the Power cable.

Minimum technical specifications for LT power cable are as follows:

- a. The LT power cables shall be of Aluminum conductor (3.5 Core, 25 Square mm. for Master Mandal; 3.5 Core, 10 Square mm. and 4 Core, 6 Square mm. for Mandal) PVC insulated, armored/unarmored and PVC sheathed, as per IS: 7098 Part-I & II.
- b. The Power cables shall be rated for minimum 1100V.
- c. All the cables quoted / supplied shall bear ISI mark.
- d. The cable conductor shall be made from high conductivity stranded high-density aluminum to form compacted circular or compact shaped conductor having resistance within limits specified in IS: 8130/1984 and any latest amendment to it.
- e. The insulation of each core and outer and inner sheath, shall comply with the IS: 1554.
- f. Armoring of galvanized steel strip shall be provided. The dimensions of steel strips shall be as per latest edition of IS: 3975 – 1979.
- g. Power cable shall be installed as per IS: 1255 or as per revised standards (if any).
- h. All the joints shall be fully watertight and sealed after threading by applying sealing compound as per respective IS standards.
- i. All cable tests shall be carried out in accordance with the relevant Standard Code of Practice and Electricity Rules. The Contractor shall

provide necessary instruments, equipment and labour for conducting the above tests and shall bear all expenses in connection with such tests. All tests shall be carried out in the presence of the APSFL's site representative, results will be noted and signed by all present and record be maintained.

- j. The cable shall conform in all respects to IS: 7098-Part-1(1988), IS: 8130-1984, IS: 3975-1979 and IS: 5831-1984 standards with latest amendments.

#### **4.2.4 Technical specifications of earth pits**

The following are technical specifications of earth pit:

- a. The Earth pit shall conform in all respects to IS: 3043-1987 standard with latest amendments.
- b. Copper bonded MS Chemical Earth Electrode shall be provided with Ground Enhancing Compound.
- c. The chemical electrode shall be of non-corrosive min 17 mm diameter rod with 3-meter length.
- d. Each Earth Rod should be provided with a suitable copper plated clamp to facilitate Interconnection of rods and connection to equipment earth bar using appropriate copper-coated MS strip or copper cable.
- e. The cross-sectional area of earthing conductor shall not be smaller than half of the largest current-carrying conductor.
- f. An independent earth wire of proper rating shall be provided and connected with the main pit to devices. The cable shall be laid through the MS conduit.
- g. Ground resistance should be always less than <5 ohms.
- h. Earth Pit cover size shall not be smaller than 300 mm (D ) x 300 mm ( H )
- i. Earth pit covers shall be made of high-quality PVC or high-grade cast iron.
- j. Earth pit covers should be rust free.

#### **4.2.5 Power upgradation/ sanction load expansion**

Existing sanctioned power capacity would be upgraded as per actual requirement at Master Mandal and Mandal locations (to be provided by APSFL).

#### **4.2.6 Technical specifications of voltage stabilizer**

- a. Input voltage: 170 - 320 V
- b. Output voltage: Constant 230V +- 5%
- c. Rating: 1KVA

- d. System to cut off the load in case voltage drops below 170V and above 320V
- e. Industrial grade

#### **4.3 Implementation Strategy**

Supplier would be responsible for procurement and carrying out the installation and maintenance of Shelter Enclosures and power upgradation. The activities are to be performed as per the laid down standards, guidelines and procedures.

Supplier will be responsible for the following (but not limited to):

- a. To carry out the site area survey in the sub-station POPs.
- b. Coordination with various agencies like Local Administration, APSFL etc. for Mandals Site Access, for end-to-end implementation and submission of documentations.
- c. Installation of Shelter enclosures.
- d. Upgradation of power infrastructure
- e. Comprehensive maintenance.
- f. Any other field implementation related work.

##### **4.3.1 Survey and Planning Phase**

- a. Survey of Mandal premises to finalize the exact location for placing the shelter enclosure and assess the current power infrastructure.
- b. Identifying the requirements for constructing the plinth/platform for deploying the shelter enclosure over it.

##### **4.3.2 Implementation Phase**

- a. Supply of all required material.
- b. Responsible for payment of any Octroi / taxes involved in material movement to Supplier warehouse/work site.
- c. Site level coordination with sub-stations for accessing the premises and connecting to installed equipment.
- d. Carrying out the Shelter installation work as per agreed standards and guidelines.
- e. Supplier will be responsible for taking photographs of the work carried out.
- f. Providing required support to APSFL/agency nominated by APSFL for conducting acceptance test.

##### **4.3.3 Operations and Maintenance (O&M) Phase**

- a. Comprehensive maintenance for a period of 7 years from the start of O&M phase (with spares).
- b. Operations and Maintenance phase shall start after acceptance testing of all (100%) the Mandals/Master Mandals, mentioned as part of the Purchase



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Order. The bidder shall be responsible for maintenance of the deployed infrastructure until the start of O&M phase.

- c. The SLA/KPI shall be same for the entire 7 years.
- d. Adherence to guidelines and procedures laid down by APSFL.
- e. Procurement and supply of all replacement material required for maintenance work.
- f. APSFL, at its discretion, may extend the O&M phase for one (1) more year, after completion of seven (7) years, at the same rate as quoted in the bid.

**5 Bid Evaluation Criteria and Process**

**5.1 Pre-Qualification Criteria**

The bidder should satisfy the following Pre-qualification criteria to be eligible for further evaluation under this RFP. The bidder should enclose documentary evidence for fulfilling the Eligibility in the Pre-qualification Bid. If a bidder fails to enclose the documentary proof for eligibility, their bid is liable to be rejected.

The following is the Pre-Qualification Criteria:

S. No	Eligibility Criteria	Documents Required
1	The Prime Bidder should be a company registered in India under the Companies Act, 1956 / 2013 /LLP Act 2008 /Indian Partnership Act 1932, as amended from time to time, and should be in operation for at least the last 5 years as on the date of bid submission.	<ul style="list-style-type: none"> <li>a. Copy of valid Certificate of Incorporation from Registrar of Companies</li> <li>b. Copy of Corporate Identification Number (CIN)</li> <li>c. Copy of GST registration certificate</li> <li>d. Copy of PAN</li> </ul>
2	The Prime bidder has option of partnering with maximum three (3) consortium members. The consortium members should be a Company registered in India under the Indian Companies Act 1956/2013 or a Registered Partnership Firm or a Sole Proprietary Firm or LLP.	<p>In case the Consortium member is a Registered Company in India, they should produce the copy of the Certificate of Incorporation.</p> <p>In case, the Consortium member is Registered Partnership Company/Firm, they should produce the copy of Registered Partnership Deed.</p> <p>In case the Consortium member is a Sole Proprietary Firm, they should produce the copy of valid Tax Registration Certificate(s) [Registration certificate</p>

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S. No	Eligibility Criteria	Documents Required
		<p>under equivalent law abroad for foreign company should be provided] A notarized or registered agreement between all the Consortium members mentioning the details of Prime bidder and other consortium members along with an outline of the financial strengths, technical strengths and the roles and responsibilities of each member of the consortium.</p> <p>Bidder is required to submit the consortium agreement form provided in Annexure P.</p>
3	<p>The cumulative annual turnover of the Prime Bidder in the last three audited financial years i.e. 2016-17, 2017-18 and 2018-19, should be at least INR 5 Crores.</p>	<p>Certificate from the Statutory Auditor of the Company mentioning year-wise annual turnover in last 3 audited financial years i.e. 2016-17, 2017-18 and 2018-19.</p> <p>And, Copy of audited profit and loss statement showing the turnover for last 3 financial years i.e. 2016-17, 2017-18 and 2018-19.</p>
4	<p>Average Net Worth of the Prime bidder, for the last three (3) financial years, i.e. FY 16-17, FY 17-18 and FY 18-19, should be positive as per the audited financial results.</p>	<p>Certificate from Statutory Auditor clearly stating the Net worth of the Bidder for the last three (3) financial years.</p>
5	<p>The Prime Bidder/Consortium should have completed supply/ installation/ maintenance of at least 25 Shelter enclosures in last 3 years as on bid submission date.</p>	<p>Completion Certificate from the client on the letterhead of the client clearly mentioning the no. of shelter enclosures.</p> <p>(Or) Work Order and completion Certificate from the client (Highlighting the Scope of Work/ services clearly)</p>
6	<p>Prime Bidder and any of the Consortium members should not have been blacklisted by any central or state Govt. department or PSU on the date of bid submission.</p>	<p>Self-Declaration Certificate (Certificate to be enclosed in the bid duly signed by the authorized signatory on its letter head)</p> <p>In case of consortium, Prime bidder should submit an undertaking that prime</p>

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S. No	Eligibility Criteria	Documents Required
		bidder and the consortium member(s) have not been blacklisted/debarred by any Govt. department or any PSU in India as on bid submission date
7	Prime Bidder/ Lead bidder to share the Manufacturer Authorization Form (MAF) for the air-conditioners	MAF, duly signed by the OEM, to be enclosed along with the bid documents (as per the format enclosed in Section 6.3)

**NOTE 1:**

- a. Only the bids of those Bidders, who submit the prescribed Bid-processing fee and EMD, shall be considered for evaluation. The bids not accompanied with a valid Bid-processing fee and EMD as part of the proposal shall be summarily rejected.
- b. Only the Commercial bids of those bidders, who meet the Pre-Qualification criteria, shall be opened.
- c. Bidders are required to provide the aforementioned information as per the formats provided along with the required supporting documents for each of the criteria.

Proposals without necessary supporting documents or without meeting the prescribed qualification criteria will be treated as non-responsive and will not be considered for further evaluation.

**Note 2: Consortium criteria**

- a. In case of consortium, the Lead Bidder must be specified by the bidder.
- b. The Lead bidder and the consortium member(s) cannot participate in more than one bid as lead bidder/ consortium member.
- c. In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU)/ Consortium Agreement among all the members signed by the CEO/ Country Head/Authorized Signatories of the companies dated prior to the submission of the bid. The MoU/ Consortium Agreement shall clearly state the composition of the consortium who shall be the Lead bidder, the complete description of the partner and roles and responsibilities of the partners.
- d. The consortium bid submitted without valid MoU / Consortium Agreement shall be treated as non-responsive.
- e. By submitting the Bid, the prime bidder shall also be deemed to have acknowledged and agreed that in the event of a change in control of a Consortium Member or an Associate whose Technical Capacity and/ or Financial Capacity was taken into consideration for the purposes of short-listing and technically qualified under and in accordance with this RFP, the Bidder shall be deemed to have knowledge of the same and shall be required to inform the competent authority forthwith along with all relevant particulars about the same and the competent authority may, in its sole discretion, disqualify the Bidder or withdraw the

## **RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

work order from the PIA, as the case may be. In the event such change in control occurs after signing of the Agreement but prior to sign off of the project, it would, notwithstanding anything to the contrary contained in the Agreement, be deemed to be a breach of the Agreement, and the same shall be liable to be terminated without the competent authority being liable in any manner whatsoever to the Bidder.

- f. In such an event, notwithstanding anything to the contrary contained in the Agreement, the competent authority shall be entitled to forfeit and appropriate the Bid Security and Performance Security, as the case may be, as damages, without prejudice to any other right or remedy that may be available to the competent authority under the Bidding Documents and/ or the Agreement or otherwise
- g. The bidder (each member of the consortium) shall have company registration certificate, registration under labour laws and contract act, valid GST registration certificate and Permanent Account Number (PAN) issued by Income Tax department, Memorandum of Association and Article of Association (copy of the same should be provided)
- h. Prime bidder should submit an undertaking that prime bidder and the consortium member(s) have not been blacklisted/debarred by any Govt. department or any PSU in India as on bid submission date
- i. The award of contract shall be signed with the Lead Bidder only and the Lead Bidder shall be single Point of Contact for this Project. BG shall be submitted by the Lead Bidder
- j. The payments for the said project shall be released only in the name of Lead Bidder.
- k. Lead Bidder shall be solely responsible for any failure liable to the Government for the execution of the project in accordance with the terms and conditions of the bid document and a statement of this effect shall be included in the MoU/ Consortium Agreement.

### **5.2 Commercial Evaluation Criteria**

- a. All the Pre-qualification qualified bidders shall be notified to participate in Commercial Bid opening process.
- b. Bidders quoting unrealistic cost shall be rejected straightaway by APSFL. Any bid found to have unsatisfactory response in the eligibility criteria as mentioned shall be rejected and shall not be considered for further evaluation.
- c. The commercial Bids for the Pre-Qualification qualified bidders shall then be opened on the notified date and time and reviewed to determine whether the Commercial Bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at purchaser's discretion.
- d. Commercial Bids that are not as per the provided format in section 6.2 shall be liable for rejection.
- e. In case of computation error in commercial forms, the Technical/Evaluation Committee's decision in this regard shall be final and binding on all.

### **5.3 Selection Process of Bidder**

Award shall be based on L1 (Least cost bid) basis and as per the following criteria:

## **RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

- a. Orders will be placed on the L1 bidder for 50% of Quantity.
- b. If the L2 bidder matches the L1 Price, orders will be placed on the L2 bidder for 30% of Quantity. If L2 doesn't match L1 Price, L3 will be given the opportunity to match the L1 Price and henceforth until one of the bidder matches the L1 price. If none of the L2 - Ln (where n is the number of bids) match the L1 Price, then L1 bidder will supply the entire quantity.
- c. If the La+1 (where 'La' represents the second successful bidder, who has matched the L1 as price as mentioned above) matches the L1 Price, orders will be placed on the La+1 bidder for remaining 20% of Quantity. If La+1 does not match L1 Price, La+2 will be given the opportunity to match the L1 Price and henceforth until one of the bidder matches the L1 price. If none of the La+1 to Ln (where n is the number of bids) match the L1 Price, then remaining quantity of 20% will be distributed across L1 and La bidders.

**Note:** Post award of work, APSFL has the right to alter the quantity of allotment to the bidders, based on the merits of situation like timeline of delivery and installation, adherence to guidelines provided/standards of RFP, approval/acceptance on works performed by selected bidder by APSFL or its appointed agency, etc.

**6. Bid Submission Forms**

**6.1 Pre-Qualification Evaluation Forms**

**6.1.1 Annexure A: Application Form**

(On Bidder's letterhead)

To,

(Date)

Managing Director,

Andhra Pradesh State FiberNet Limited

NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station, NH -65, Vijayawada - 520001

Sub: Procurement of Shelter Enclosures and Upgradation of Power Infrastructure for Implementation of BharatNet Phase-II

Ref: APSFL/BBNL /\_\_/\_\_\_\_, Dated XX/XX/2020

Dear Sir,

With reference to your RFP Document dated ....., I/We, having examined all relevant documents and understood their contents, hereby submit our Proposal to provide Shelter enclosures for BharatNet Phase-II in AP

- 1) All information provided in the Proposal and in the Appendices is true and correct and all documents accompanying such Proposal are true copies of their respective originals.
- 2) I/We shall make available to the Authority any additional information it may deem necessary or require for supplementing or authenticating the Proposal.
- 3) I/We acknowledge the right of the Authority to reject our Proposal without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
- 4) I/We to the best of our knowledge certify that in the last three years, we or any of our Associates have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from any project or contract by any public

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authority nor have had any contract terminated by any public authority for breach on our part.

- 5) I/We understand that you may cancel the Selection Process at any time and that you are neither bound to accept any Proposal that you may receive nor to select the selected supplier, without incurring any liability to the Bidders
- 6) I/We to the best of our knowledge certify that in regard to matters other than security and integrity of the country, we or any of our Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast a doubt on our ability to undertake the Consultancy for the Project or which relates to a grave offence that outrages the moral sense of the community.
- 7) I/We to the best of our knowledge further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law for any offence committed by us or by any of our Associates.
- 8) I/We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority and/ or the Government of India in connection with the selection of Supplier or in connection with the Selection Process itself in respect of the above mentioned Project.
- 9) I/We agree and understand that the Proposal is subject to the provisions of the RFP document. In no case, shall I/We have any claim or right of whatsoever nature if our Proposal is not opened or rejected.
- 10) I/We agree to keep this offer valid for 180 days from the Proposal Due Date specified in the RFP.
- 11) I/We agree and undertake to abide by all the terms and conditions of the RFP Document. In witness thereof, I/We submit this Proposal under and in accordance with the terms of the RFP Document.

Yours faithfully,

(Signature, name and designation of the authorized signatory)

(Name and seal of the firm)

**6.1.2 Annexure B: Profile of Bidder/ Partners**

(To be submitted by Bidder)

<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Company	
2	Year of incorporation	
3	Nature of the Company (Registered Company)	
4	<b>Registered Office Address</b>	
5	Office Telephone Number	
6	Fax Number	
7	<b>Contact Person</b>	
8	Name	
9	Telephone Number	
10	Email Address	
11	<b>Local presence at Andhra Pradesh, if any</b>	
12	Office Address	
13	Office Telephone Number	
14	Fax Number	
15	<b>Registration Details</b>	
16	Permanent Account Number	
17	GST Registration Number	
18	Service Tax Registration Number	
19	Banker's Name, Address and Account Number	

Witness:  
 Signature -----  
 Name -----  
 Address -----  
 Date -----

SUPPLIER:  
 Signature -----  
 Name -----  
 Designation -----  
 Company Seal -----  
 Date -----



**6.1.3 Annexure C – Financial Turnover and Net worth of the Bidder**

(To be submitted by Bidder)

**Annual Turnover of the Prime Bidder**

<b>Criteria</b>	<b>Sub Criteria</b>	<b>FY</b>	<b>Total Financials</b>
<b>Financial Capability</b>	<b>Turnover from business activities</b>	<b>FY 2016-17</b>	
		<b>FY 2017-18</b>	
		<b>FY 2018-19</b>	
<b>Net worth</b>	<b>Measured as paid-up capital plus free reserves</b>	<b>FY 2016-17</b>	
		<b>FY 2017-18</b>	
		<b>FY 2018-19</b>	

Documentary Proof Required:

- Statutory Auditor / CA Certificate clearly specifying the turnover for the specified years.
- Audited P&L and Balance Sheets

**6.1.4 Annexure D - Format for Past Experience of the Bidder**

Please provide citations as per the Qualification / Technical criteria in the format provided below. The relevant documentary proofs need to be attached.

<b>Project Title</b> <b>(Attach separate sheet for each Project)</b>			
<b>Name of Client</b>		<b>Address</b>	
<b>Type of Client</b> <b>(Govt./PSU/Others)</b>		<b>Order Value of the Project(in Crores)</b>	
<b>Duration of the Assignment</b>		<b>Start Date (month/year):</b>	
		<b>End Date (month/year):</b>	
<b>Referrals(Client side):</b> <b>Provide one referral only</b>	<b>Name</b>		
	<b>Designation</b>		
	<b>Contact Number</b>		
	<b>E mail Id</b>		
<b>Brief Description of the Project</b>			

Documentary Proof Required:

- Copy of Work order
- Certificate of successful operation by the client

**6.1.5 Annexure E – Declaration regarding Clean Track Record**

To,

[Date]

Managing Director

Andhra Pradesh State FiberNet Limited

NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station, NH -65, Vijayawada - 520001

Sub: Procurement of Shelter Enclosures and Upgradation of Power Infrastructure for Implementation of BharatNet Phase-II

Ref: APSFL/BBNL/\_\_\_/\_\_\_, Dated XX/XX/2020

Sir,

I/We hereby declare that my company has not been debarred / black listed as on Bid submission date by any State Government, Central Government, Central & State Govt. Undertakings / Organizations and by any other Quasi Government bodies / Organizations, and any other major Enterprise / Organizations in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices.

Yours faithfully,

(Signature, name and designation of the authorized signatory)

(Name and seal of the firm)

6.1.6 Annexure F – Declaration of Acceptance of Terms and Conditions in the RFP

Dated.....

(To be submitted by Bidder)

To,

[Date]

Managing Director  
Andhra Pradesh State FiberNet Limited  
NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station, NH -65, Vijayawada - 520001

Sub: Procurement of Shelter Enclosures and upgradation of power infrastructure for Implementation of BharatNet Phase-II  
Ref: APSFL/BBNL/\_\_\_/\_\_\_\_, Dated XX/XX/2020

Sir,

It is to certify that the RFP document – RFP No..... dated..... is carefully read & understood and all the sections and clauses are COMPLIED UNCONDITIONALLY AND UNEQUIVOCALLY. There is no deviation from the terms and conditions of the RFP. We also hereby confirm that the solution proposed by us will meet the project requirements.

Yours faithfully,  
(Signature, name and designation of the authorized signatory)  
(Name and seal of the firm)

**Note:** A copy of this form should be returned along with the Bid duly signed

Witness:	Supplier:
Signature -----	Signature -----
Name -----	Name -----
Address -----	Designation -----
	Company Seal -----
Date -----	Date -----

**6.1.7 Annexure G – Undertaking on SoW Compliance and Unconditional Acceptance**

To  
Managing Director  
Andhra Pradesh State FiberNet Ltd.  
3<sup>rd</sup> Floor, NTR Administrative Block, Pandit Nehru Bus Station, NH-65,  
Vijayawada – 520001, Andhra Pradesh,  
India.

Subject: Undertaking on SoW Compliance and Unconditional Acceptance with reference to  
NIT No. APSFL/BBNL/XXX/XXXX Dated XX/XX/2020

We, M/s \_\_\_\_\_, based at \_\_\_\_\_ hereby confirm our compliance to the requirements outlined in Section V - Scope of Work (SoW) of the above referenced RFP. By way of this compliance undertaking, we confirm that we have adequate capability and experience to perform the services outlined in the SoW, as per the requirements defined in the RFP.

We confirm our unconditional acceptance of full responsibility of providing services in accordance with the Terms and Conditions and Scope of work of this RFP.

For M/s \_\_\_\_\_

Authorized Signatory (duly signed and stamped)

Name

Designation

**6.1.8 Annexure H – Pre-Qualification Compliance Documents**

The bidder should attach following checklist for compliance with important criterion along with the bid to be submitted:

<b>S. No.</b>	<b>Item</b>	<b>Complied (Yes/ No)</b>	<b>Remarks</b>
1.	Bid Processing Fee		
2.	EMD		
3.	Cover letter		
4.	All pages of bid are numbered, signed by authorized signatory and bids are sealed properly		
5.	Proof of authorized signatory (Power of attorney/ Board declaration)		
6.	Profile of the Bidder		
7.	Financial Turnover and Net worth of the Bidder		
8.	Previous experience of supply/ installation/ maintenance of Shelter enclosures in the last three financial years as on bid submission date.		
9.	Self-Declaration Certificate (Certificate to be enclosed in the bid duly signed by the authorized signatory on its letterhead) regarding blacklisting by any central or state Govt. department or PSU on the date of bid submission.		
10.	Undertaking for Unconditional Acceptance of Terms and Conditions of the RFP		

**6.2 Commercial Forms**

**6.2.1 Annexure I – Commercial Proposal Submission Form**

Dated: .....

To

.....  
.....  
.....  
.....  
.....  
.....

Sir/ Madam,

**Subject: “Procurement of Shelter Enclosures and Upgradation of Power Infrastructure for Implementation of BharatNet Phase-II”**

**Reference: NIT No: APSFL/BBNL/XX/XXXX Dated XX/XX/2020**

We, the undersigned SUPPLIER, having read and examined in detail all the RFP in respect of “Selection of Supplier for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure for Implementation of BharatNet Phase-II” do hereby propose to provide services as specified in the NIT number **APSFL/BBNL/XX/XXXX Dated XX/XX/2020**.

**1. PRICE AND VALIDITY**

- a. All the prices mentioned in our Bid are in accordance with the terms & conditions as specified in the RFP. The validity of bid is 180 days from the date of opening of the RFP.
- b. We are an Indian Firm and do hereby confirm that our prices excludes all taxes. However, all the taxes are quoted separately under relevant sections and shall be applicable as per actuals.

- 2. We have studied the laws relating to Indian Income Tax Department and hereby declare that all income tax, surcharge on Income Tax, Professional and any other Corporate Tax, withholding tax as applicable under the law, shall be paid by us.

**3. EARNEST MONEY DEPOSIT (EMD)**

We have enclosed an EMD in the form of a Bank Guarantee for a sum of **Rs.** ..... This EMD is liable to be forfeited in accordance with the provisions of the **Section II - General Instructions to Bidders**.

**4. TENDER PRICING**

We further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in RFP.

**5. QUALIFYING DATA**

We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in this regard before evaluation of our Bid, we agree to furnish the same in time to your satisfaction.

**6. BID PRICE**

We declare that our Bid Price is for the entire scope of the work as specified in Scope of Work. These prices are indicated in Bid Submission Formats attached with our Financial Bid as part of the Bid Response.

We understand that minimum 20% of the total bid value should be for OPEX period (total maintenance cost for 7 years). Bids received with less than 20% towards OPEX cost of the total bid value will be rejected.

**7. CONTRACT PERFORMANCE GUARANTEE BOND**

We hereby declare that in case the Contract is awarded to us, we shall submit the Bank Guarantee for Contract performance in the prescribed format given in RFP.

We hereby declare that our Bidis made in good faith, without collusion or fraud and the information contained in the Bidis true and correct to the best of our knowledge and belief. We understand that our Bid is binding on us and that you are not bound to accept a Bid you receive.

We confirm that no deviations are attached here with this financial offer.

Thanking you,

Yours faithfully,

(Signature of the SUPPLIER)

Printed Name  
Designation Seal.

Date:

Place:

Business Address:

Witness:

Signature -----

Name -----

Address -----

Date -----

Supplier:

Signature -----

Name -----

Designation -----

Company Seal -----

Date -----



**6.2.2 Annexure J – Commercial Bid Cost Components**

**6.2.2.1 Price Bid for supply and installation of shelter enclosure, upgradation of power infrastructure and related components (CAPEX)**

S. No.	Item description including Specification	Location (No.)	Quantity per location (Estimated)	Total Quantity (Estimated)	UOM	Unit Cost (excluding taxes)	Total Amount (excluding taxes)
				A		B	C= A x B
1.	Supply and Installation of Shelter Enclosure (length, height and width) of 7m x 3m x 3m, thickness of 60 mm	62	1	62	Nos.		
2.	Air Conditioner	62	1	62	Nos.		
3.	Supply and installation of remote monitoring solution for Air Conditioner unit from the NOC	62	1	62	Nos.		
4.	Supply and Installation of Shelter Enclosure (length, height and width) of 5m x 3m x 3m, thickness of 60 mm	551	1	551	Nos.		
5.	Natural Cooling Louvers	551	1	551	Nos.		
6.	Supply of unarmoured PVC insulated Aluminum cable (3.5 Core, 25 Square mm.)	39	60	2,340	Meter		
7.	Supply of armoured PVC insulated Aluminum cable (3.5 Core, 25 Square mm.)	17	60	1,020	Meter		
8.	Supply of unarmoured PVC insulated Aluminum cable (3.5 Core, 10 Square mm.)	70	50	3,500	Meter		
9.	Supply of armoured PVC insulated Aluminum cable (3.5 Core, 10 Square mm.)	30	50	1,500	Meter		
10.	Supply of unarmoured PVC insulated Aluminum cable (4 Core, 6 Square mm.)	320	50	16,000	Meter		

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<b>S. No.</b>	<b>Item description including Specification</b>	<b>Location (No.)</b>	<b>Quantity per location (Estimated)</b>	<b>Total Quantity (Estimated)</b>	<b>UOM</b>	<b>Unit Cost (excluding taxes)</b>	<b>Total Amount (excluding taxes)</b>
11.	Supply of armoured PVC insulated Aluminum cable (4 Core, 6 Square mm.)	137	50	6,850	Meter		
12.	Supply of Earth pits (Chemical Copper Bonded) with all required accessories.	613	1	613	Each		
13.	Supply of 125 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size 3 phase, 6-way MCB box, required cable and other accessories.	11	1	11	Each		
14.	Supply of 100 Amps, 4 Pole MCB, (Standard/Reputed Make) with Standard size 3 phase, 6-way MCB box, required cable and other accessories.	45	1	45	Each		
15.	Supply of 63 Amps, 4 Pole MCB, (Standard/Reputed Make) with 3 phase, 6 ways MCB box, required cable and other accessories.	50	1	50	Each		
16.	Supply of 40 Amps, 4 Pole MCB, (Standard/Reputed Make) with 3 phase, 6 ways MCB box, required cable and other accessories.	507	1	507	Each		
17.	Supply of 415V,200 Amps Rewirable Porcelain Cut-Out fuse Unit with all required accessories	11	3	33	Each		
18.	Supply of 415V,100 Amps Rewirable Porcelain Cut-Out fuse Unit with all required accessories	45	3	135	Each		
19.	Supply of 415V,63 Amps Rewirable Porcelain Cut-Out fuse Unit (reputed brand) with all required accessories	557	3	1671	Each		

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<b>S. No.</b>	<b>Item description including Specification</b>	<b>Location (No.)</b>	<b>Quantity per location (Estimated)</b>	<b>Total Quantity (Estimated)</b>	<b>UOM</b>	<b>Unit Cost (excluding taxes)</b>	<b>Total Amount (excluding taxes)</b>
20. (a)	Supply, transportation and installation of PSCC Pole (Required size: 8 Meter height and 200 KG weight) with all required accessories with concreting.	375	1	375	Each		
20. (b)	Supply, transportation and installation of PSCC Pole (Required size: 8 Meter height and 200 KG weight) with all required accessories with manual backfilling.	375	1	375	Each		
21.	Supply, transportation and installation of GI Pole (Required size: 8 Meter height and 100 mm diameter) with all required accessories.	375	1	375	Each		
22.	Supply and installation of MS wire rope (8 mm diameter)	215	50	10,750	Meter		
23.	Supply and installation of insulated messenger wire (8 mm diameter or equivalent)	214	50	10,700	Meter		
24.	Supply and installation of voltage stabilizer as per the specifications provided	613	1	613	Each		
25.	Services: a) Installation & commissioning of cables b) Installation & commissioning of Earthing c) Installation & commissioning of MCB (including the box) units with required cable to output of cutout fuse. d) Installation & commissioning of Cutout fuse (3 no's for	613	1	613	Each		

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S. No.	Item description including Specification	Location (No.)	Quantity per location (Estimated)	Total Quantity (Estimated)	UOM	Unit Cost (excluding taxes)	Total Amount (excluding taxes)
	each Master Mandal and Mandal locations) with meter output. e) Transportation for cable and earthing material f) Liaising for power enhancement and Meter upgradation, wherever required						
<b>Total CAPEX Cost (X1)</b>							
<b>Total CAPEX Cost (X1) in words:</b>							

**6.2.2.2 Price Bid for O&M of shelter enclosure (OPEX)**

S. No.	Item description including Specification	UoM	Unit Cost per year (excluding taxes)	Quantity	Years	Total Amount (excluding taxes)
			<b>A</b>	<b>B</b>	<b>C</b>	<b>D = A x B x C</b>
1.	Comprehensive Maintenance at Master Mandal of deployed infrastructure	Nos.		62	7	
2.	Comprehensive Maintenance at Mandal of deployed infrastructure	Nos.		551	7	
<b>Total OPEX Cost (X2)</b>						
<b>Total OPEX cost (X2) in words:</b>						

**6.2.2.3 Total Cost**

S. No.	Item description	Total Amount (excluding taxes)
1.	Total CAPEX cost for supply and installation of shelter enclosure, upgradation of power infrastructure and related components (X1)	

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<b>S. No.</b>	<b>Item description</b>	<b>Total Amount (excluding taxes)</b>
2.	Total OPEX cost (X2)	
	<b>Total Cost (X1+X2)</b>	
	<b>Total Cost in words:</b>	

**Note:**

- a. *Prices in Financial Bid should be quoted in the provided format.*
- b. *All prices should be quoted in Indian Rupees and indicated in both figures and words.*
- c. *In case there is discrepancy between words and figures, the amount in words shall prevail.*
- d. *Application cost for power meter capacity enhancement shall be reimbursed based on actuals as per DISCOM demand note/receipt.*
- e. *APSFL reserves the right to reject the bid, which are not submitted in the prescribed format.*

**Instructions to fill the Financial Bid:**

- a. Bidder should provide all prices as per the prescribed format under this Annexure. Bidder should not leave any field blank.
- b. All the prices are to be entered in Indian Rupees ONLY (%age values are not allowed).
- c. All the prices quoted in the Financial Bids shall be exclusive of applicable taxes and levies.
- d. APSFL reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.
- e. For the purpose of evaluation of Financial Bids the APSFL shall make appropriate assumptions to arrive at a common bid price for all the Bidders. This however shall have no co-relation with the Contract value or actual payment to be made to the Bidder.
- f. The soft copy of the financial bid should be uploaded online. The financial bid formats shall be provided in company's letter of the lead bidder duly signed and stamped.

**6.3 Other Forms and Formats**

**6.3.1 Annexure K – Power of Attorney**

**Sample form of Power of Attorney for signing the Application & Bid**

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

KNOW ALL MEN BY THESE PRESENTS,

We \_\_\_\_\_ (*name of the firm and address of the registered office*) do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms. (*name*), \_\_\_\_\_ son/daughter/wife of and presently residing at \_\_\_\_\_, who is presently employed with us and holding the position of \_\_\_\_\_, as our true and lawful attorney (*hereinafter referred to as the "Attorney"*) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for qualification and submission of our bid for the Project proposed by the \_\_\_\_\_ (the "APSFL") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in pre-applications and other conferences and providing information/ responses to the APSFL, representing us in all matters before the APSFL, signing and execution of all contracts including the Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the APSFL in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of the Agreement with the APSFL.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, \_\_\_\_\_, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF \_\_\_\_\_.

For \_\_\_\_\_  
(Signature, name, designation and address)

- Witnesses:
1. (Notarized)
  - 2.

Accepted  
(Signature, Name, Title and Address of the Attorney)

## **RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

### **Notes:**

- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.
- Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power here-under on behalf of the Bidder.
- In case the Application is signed by an authorized Director / Partner or Proprietor of the Bidder, a certified copy of the appropriate board resolution / document conveying such APSFL may be enclosed in lieu of the Power of Attorney.

**6.3.2 Annexure L – Manufacturer Authorization Form**

**Authorization letters for OEM's**

To  
Managing Director  
APSFL,  
3rd Floor, NTR Administrative Block, Pandit Nehru Bus Station, NH – 65,  
Vijayawada – 520001, Andhra Pradesh, India.

Date:

**Reference: Tender No.** \_\_\_\_\_ **For** \_\_\_\_\_ (Name of the Project)

Sir,

We \_\_\_\_\_, (name and address of the manufacturer) who are established and reputed manufacturers of \_\_\_\_\_ do hereby authorize \_\_\_\_\_ (Name of The Bidder), having its registered office at \_\_\_\_\_ (name and address of the bidder) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment / software manufactured / developed by us.

We hereby extend, our warranty for the hardware/software supplied by the bidder for 8 years and or maintenance or support services for software products against this invitation for bid by Andhra Pradesh State FiberNet Limited as per the requirements and we bind a legal agreement with \_\_\_\_\_ for supply, installation and commissioning and support for period of 7 years in O&M Phase.

We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.

Yours faithfully,

For and on behalf of M/s \_\_\_\_\_ (Name of the manufacturer)

Signature

Name

Designation

Address

Date



**6.3.3 Annexure M – Performance Bank Guarantee Format**

(To be submitted by the successful bidder on Rs.100/- stamp paper)

In consideration of APSFL (“Authority”), having agreed to accept from \_\_\_\_\_ “successful bidder”, a Performance Bank Guarantee as maybe modified from time to time wherever necessary under the terms and conditions of the Agreement entered into by the said successful bidder in respect of work \_\_\_\_\_, RFP No. \_\_\_\_\_ under APSFL for the due fulfilment of the terms and conditions of the said Agreement under APSFL, on production of a Bank Guarantee for Rs. \_\_\_\_ (Rupees \_\_\_\_\_ only), we \_\_\_\_\_ “Bank” \_\_\_\_\_ branch, hereby undertake the guarantee to pay immediately to APSFL, on demand in writing by APSFL, an amount of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) without any reservation and recourse against any loss or damage caused to or suffered by APSFL by reason of any breach by the successful bidder of any of the terms and conditions of the said agreement under the said Authority.

We \_\_\_\_\_ Bank, further agree that the guarantee hereby contained shall remain in full force and effect during the period that will be taken for the performance of the said Agreement under the APSFL and that it shall be in enforcement until all the dues of APSFL under or by virtue of the said Agreement under the APSFL have been fully paid and their claims satisfied or discharged or until the said Authority certifies that the terms and conditions of the said Agreement under the APSFL have been fully and properly carried out by the successful bidder and accordingly discharges the guarantee subject. This bank guarantee is valid until \_\_\_\_\_ (date) and APSFL shall have no rights under this guarantee after \_\_\_\_\_ (date).

We \_\_\_\_\_ Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the APSFL in writing.

Dated \_\_\_\_\_ day of \_\_\_\_\_ 2019.

Place:

Date: Signature and seal of Guarantors (Bank)

**6.3.4 Annexure N – Earnest Money Deposit (EMD) Format**

(To be executed in Rs.100/- Stamp Paper)

To,  
The Managing Director,  
Andhra Pradesh State FiberNet Limited,  
3rd Floor, NTR Administrative Block,  
Pandit Nehru Bus Station,  
NH – 65, Vijayawada – 520013

Bank Guarantee No:  
Amount of Guarantee:  
Guarantee covers from:  
Last date for lodgement of claim:

This Guarantee executed by \_\_\_\_\_ (Banker's Name & Address) having our Head Office at \_\_\_\_\_ (address) (hereinafter referred to as "Bank") in favour of Andhra Pradesh State FiberNet Limited NTR Administrative Block, 3rd Floor, Pandit Nehru Bus Station, NH -65, Vijayawada – 520013 India (hereinafter referred to as "Beneficiary") for an amount not exceeding Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only) as per the request of M/s. \_\_\_\_\_ having its office address at \_\_\_\_\_ (hereinafter referred to as "Bidder") against RFP reference \_\_\_\_\_ dated \_\_\_/\_\_\_/\_\_\_ of M/s. Andhra Pradesh State FiberNet Limited (APSFL). This guarantee is issued subject to the condition that the liability of the Bank under this guarantee is limited to a maximum of Rs. \_\_\_\_\_ /- (Rupees \_\_\_\_\_ Only) and the guarantee shall remain in full force up to \_\_\_\_\_ (date) and cannot be invoked otherwise by a written demand or claim by the beneficiary under the Guarantee served on the Bank before \_\_\_\_\_ (date).

ANDWHEREAS it has been stipulated by you in the said ORDER that the Supplier shall furnish you with a Bank Guarantee by a Scheduled/Nationalized Bank for the sum specified therein as EMD towards bid submission.

ANDWHEREAS we have agreed to give the Bidder a Guarantee.

THEREFORE, we (Bankers address), hereby affirm that we are Guarantors and responsible to you on behalf of the Bidder for Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only) and we undertake to pay you, upon your first written demand without any demur, cavil or argument, any sum or sums within the limit of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein. We will pay the guaranteed amount notwithstanding any objection or dispute whatsoever raised by the Bidder.

This Guarantee is valid until \_\_\_\_\_.

Place:

Date: Signature and seal of Guarantors (Bank)

**6.3.5 Annexure O – Contract Format**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 20XX

BETWEEN

The **APSFL** (hereinafter referred to as “the Purchaser”) which expression shall unless repugnant to the context or meaning thereof mean and be deemed to include its authorized agents, representatives and permitted assigns of the First Part.

AND

The Party \_\_\_\_\_ (hereinafter referred to as “the SUPPLIER”) which expression shall unless repugnant to the context or meaning thereof mean and be deemed to include their successors and permitted assigns having its registered office at \_\_\_\_\_ of the Second Part.

WHEREAS

The Purchaser had invited Bids vide their Tender \_\_\_\_\_ (hereinafter referred to as “RFP”) for “Selection of SUPPLIER for implementation of BharatNet-II Project in state of Andhra Pradesh”

- (a) The SUPPLIER had submitted its proposal dated \_\_\_\_\_ (hereinafter referred to as the ‘Bid’) for the provision of such services in accordance with its proposal as set out in its Bid and in accordance with the terms & conditions of the RFP and this Contract.
- (b) The Purchaser has agreed to select the SUPPLIER for the provision of such services and the SUPPLIER has agreed to provide services as are represented in the RFP, including the terms & conditions of this Contract, the Schedules and Annexure attached hereto and in accordance with the terms & conditions of the RFP and in terms of the discussions, negotiations and clarifications in relation to the implementation of the scope of work
- (c) In consideration of the foregoing and the mutual covenants and promises contained herein and other good and valuable consideration the receipt and adequacy of which is hereby acknowledged, the parties intending to be bound legally.

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

- (d) In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of the Contract referred to.

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(e) The following documents shall be deemed to form and be read and construed as part of this Agreement viz:

- i. the Scope of Work
- ii. the General Conditions of the Contract
- iii. Approach Paper on methodology and work plan for performing the assignment
- iv. Copy of RFP, financial proposal as submitted by the SUPPLIER and as amended pursuant to the post bid negotiations
- v. Format of bank guarantee for Performance Security.
- vi. the Service Level Agreement (SLA)
- vii. the Purchaser's Notification of Award.

(f) In consideration of the payments to be made by the Purchaser to the SUPPLIER as hereinafter mentioned, the SUPPLIER hereby covenants with the Purchaser to provide the Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

(g) The Purchaser hereby covenants to pay the SUPPLIER in consideration of the provision of the Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written

Signed, Sealed and Delivered by the said \_\_\_\_\_ (For the Purchaser in the presence of: \_\_\_\_\_ (WITNESS)

Signed, Sealed and Delivered by the said \_\_\_\_\_ (For the Bidder) in the presence of: \_\_\_\_\_ (WITNESS)

### 6.3.6 Annexure P – Consortium Agreement Format

#### DRAFT MEMORANDUM OF UNDERSTANDING EXECUTED BY MEMBERS OF THE CONSORTIUM

*[On Non-judicial stamp paper of Indian Rupees 100 duly attested by notary public]*

This Memorandum of Understanding (MoU) entered into this day of *[Date]* *[Month]* 2018 at *[Place]* among \_\_\_\_\_ (hereinafter referred to as " ") and having office at *[Address]*, India, as Party of the First Part and \_\_\_\_\_ (hereinafter referred to as " ") and having office at *[Address]*, as Party of the Second Part and \_\_\_\_\_ (hereinafter referred to as " ") and having office at *[Address]*, as Party of the Third Part.

The parties are individually referred to as Party and collectively as Parties.

WHEREAS Andhra Pradesh State FiberNet Limited has issued a Request for Proposal dated *[Date]* (RFP) from the applicants interested in **Procurement of Shelter Enclosures and upgradation of power infrastructure for Implementation of BharatNet Phase-II in Andhra Pradesh**

AND WHEREAS the parties have had discussions for formation of a consortium for bidding for the said project and have reached an understanding on the following points with respect to the parties' rights and obligations towards each other and their working relationship.

AS MUTUAL UNDERSTANDING OF THE PARTIES, IT IS HEREBY AGREED AND DECLARED AS FOLLOWS:

- i. The purpose of this Agreement is to define the principles of collaboration among the parties to: Submit a response jointly to bid for the tender "**Procurement of Shelter Enclosures and upgradation of power infrastructure for Implementation of BharatNet Phase-II in Andhra Pradesh**" as a consortium.
  - a. Sign contract in case of award.
  - b. Provide and perform the supplies and services, which would be ordered by the authority pursuant to the contract.
- ii. This agreement shall not be construed as establishing or giving effect to any legal entity such as, but not limited to, a company, a partnership, etc. It shall relate solely towards the authority for "**Procurement of Shelter Enclosures and upgradation of power infrastructure for Implementation of BharatNet Phase-II in Andhra Pradesh**" for and related execution works to be performed pursuant to the contract and shall not extend to any other activities.
- iii. The parties shall be jointly and severally responsible and bound towards the authority for the performance of the works in accordance with the terms and conditions of the tender document, and contract.

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- iv. \_\_\_\_\_ (Name of party) shall act as Lead Partner of the consortium. As such, it shall act as the coordinator of the party's combined activities and shall carry out the following functions:
  - a. To ensure the technical, commercial and administrative co-ordination of the work package.
  - b. To lead the contract negotiations of the work package with the authority.
  - c. The lead partner is authorized to receive instructions and incur liabilities for and on behalf of all parties.
  - d. In case of an award, act as channel of communication between the authority and the parties to execute the Contract
- v. That the parties shall carry out all the responsibilities of the project agreement.
- vi. That the broad roles and the responsibilities of each party at each stage of the bidding shall be as below:
  - Party A: \_\_\_\_\_
  - Party B: \_\_\_\_\_
  - Party C: \_\_\_\_\_
- vii. That the parties affirm that they shall implement the project in good faith and shall take all necessary steps to see the project through expeditiously.
- viii. That this MoU shall be governed in accordance with the laws of India and courts in Andhra Pradesh shall have exclusive jurisdiction to adjudicate disputes arising from the terms herein.

In witness whereof, the parties affirm that the information provided is accurate and true and have caused this MoU duly executed on the date and year above mentioned.

(Party of the first part)  
the third part)

(Party of the second part)

(Party of

Witness:

i. \_\_\_\_\_

ii. \_\_\_\_\_

**6.3.7 Annexure O – Pre-Bid Queries Format**

All enquiries from the Bidders relating to this RFP must be submitted to the Managing Director, APSFL. These queries should be e-mailed to [apsfl@ap.gov.in](mailto:apsfl@ap.gov.in). The queries should necessarily be submitted in the following Format:

S. No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought

**7. Penalties and Payment Schedule**

**7.1 Service Level Agreements**

Service Level Agreement (SLA) shall become the part of contract between APSFL and the successful bidder. SLA defines the terms of the successful bidder’s responsibility in ensuring the timely delivery of the deliverables and the correctness of the same based on the agreed Performance Indicators.

The successful bidder has to comply with service level requirements to ensure adherence to project timelines, quality and availability of services, throughout the period of this contract i.e. during implementation phase and for a period of Seven (7) years during operation and maintenance. The successful bidder has to supply appropriate software/ hardware/ automated tools as may be required to monitor and submit reports of all the SLAs mentioned in this section.

**Note:**

- a. APSFL reserves the right to release Purchase orders in phases and in the desired Geographical locations. The basis will be geographical vicinity (consecutive districts) of the locations, for each of the successful bidder. The additional quantity, if any, may be in a different district. However, APSFL intends to ensure the allotment is based on geographical vicinity of the locations.
- b. The maximum purchase order quantity per lot will be 80 Nos of Shelters (including Air-conditions/Natural Cooling Louvers, any other hardware/software as applicable).
- c. The Milestones of each purchase order will be as follows:

<b>S. No.</b>	<b>Project Milestone</b>	<b>Months</b>
1.	Award of Purchase Order	T
2.	Supply, Delivery and Installation of shelter enclosures and upgradation of power infrastructure per Purchase Order	T + 60 days (45 days from the date of PO issued to the successful bidder, for the first lot. Subsequent lots to be completed (delivered and installed) within 45 days from the date of issue of PO).
3.	Comprehensive Maintenance for 7 years	84 Months after acceptance testing signoff from APSFL team



**7.2 Payment Terms**

The successful bidder shall be entitled to raise invoices (along with all supporting documents), as per below stated milestones. APSFL shall release payments against all valid invoices within 30 days of receipt of invoice, subject however to satisfactory acceptance of the deliverables as per the scope of work.

**7.2.1 Payment terms for procurement and installation of shelter enclosure and power infrastructure:**

<b>S. No.</b>	<b>Activities</b>	<b>Payment (%)</b>
1.	Mobilization Advance	10% of the Purchase Order value against submission of additional Advance Bank Guarantee of 110% of mobilization advance (Including GST) Or The bidder has choice to opt out for mobilization advance. In this case, bidder will not be required to submit the advance bank guarantee
2.	Implementation and Acceptance testing of Shelter enclosures (including Air-conditions/Natural Cooling Louvers, any other hardware/software as applicable) and upgradation of power infrastructure as per purchase order.	90% of CAPEX of Purchase Order cost adjusting the mobilization advance (if opted by the bidder) for Supply, Delivery and Installation of Shelter enclosures, Air Conditioners/ Natural Cooling and upgradation of power infrastructure
3.	Enhancement of existing sanctioned Power capacity at all 613 Master Mandal and Mandal locations at actuals	At Actuals
4.	After 1 year of comprehensive maintenance	Remaining 10% of CAPEX of Purchase Order Cost for Supply, Delivery and Installation of Shelter enclosures, Air Conditioners/ Natural Cooling and upgradation of power infrastructure
5.	Comprehensive Maintenance for 7 years	Quoted cost for comprehensive maintenance shall be paid Quarterly across 7 years

## RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure

### Note:

- a. All payments shall be released after certification of delivery and installation by APSFL or its appointed agency.
- b. All payments shall be made in Indian rupees only (INR).
- c. Payment shall be released against the invoices raised by supplier on providing all relevant documents timely, including acceptance testing report duly signed and approved by TPA/ APSFL authorized agency, and are complete in all respect and subsequent approval.
- d. Payment shall be subject to deductions of any amount for which the supplier is liable under the RFP conditions. Further, all payments shall be made subject to deduction of applicable taxes and other Government levies like TDS (Tax Deduction at Source) and etc., as per the current Income-Tax Act.
- e. If opted for mobilization advance, Advance Bank Guarantee shall be 110% of the mobilization advance. The mobilization advance is 10% of the capex of the respective PO. The validity of ABG shall be until the completion and acceptance of 100% of the quantity given in the PO. The ABG may initially be submitted for a minimum period of 6 months, which shall be extended further, until the completion of the PO. The Extended/ revised ABG shall be submitted 1 month prior to the date of expiry of the previous ABG. In case, the work is completed before the expiry of ABG, the same shall be released to the supplier. ABG shall be in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Limited, payable at Vijayawada.

#### Details of the Bank:

Name of the Beneficiary: ANDHRA PRADESH STATE FIBERNET LIMITED

Bank Name: Andhra Bank

Bank Account Number: 060611100003794

IFSC code: 37AANCA9069P1ZM

MICR Code: 520011025

Branch Code : 000606

Branch Name: Main Branch, RR Apparao Street, Vijayawada, Andhra Pradesh

### 7.3 Penalty

The following penalties shall be imposed on the supplier if the supplier does not adhere to the timelines as mentioned in the RFP.

**a. Penalty during Implementation Phase**

S. No.	Description	Penalties
1.	Delay in deployment of shelter enclosures and upgradation of power infrastructure at Mandals/Master Mandals	<p>a. Sum equivalent to 0.5% of the supply and installation cost for Shelter enclosure, air-conditioner/natural cooling louvers and upgradation of power infrastructure, for each week of delay or part thereof for a period up to 4 weeks</p> <p>b. Sum equivalent to 1% of the supply and installation cost for Shelter enclosure, air-conditioner/natural cooling louvers and upgradation of power infrastructure, for each week of delay or part thereof for a period beyond 4 weeks up to 8 weeks</p> <p>c. Sum equivalent to 1.5% of the supply and installation cost for Shelter enclosure, air-conditioner/natural cooling louvers and upgradation of power infrastructure, for each week of delay or part thereof for a period beyond 8 weeks up to 12 weeks</p> <p>d. Sum equivalent to 2% of the supply and installation cost for Shelter enclosure, air-conditioner/natural cooling louvers and upgradation of power infrastructure, for each week of delay or part thereof for a period beyond 12 weeks</p>

**b. Penalty during Operations and Maintenance**

S. No.	Measurement	Target	Penalty
1.	Up-time of Air Conditioners	98%	<p>Upon breach of target,</p> <p>a. 1% of the Quarterly Payment of total OPEX Cost per site, for every 1 hour of down time, at a stretch or in parts up to total down time of 8 hours.</p>

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

<b>S. No.</b>	<b>Measurement</b>	<b>Target</b>	<b>Penalty</b>
			b. Beyond 8 hours of down time, 2% of the Quarterly Payment of total OPEX Cost per site, for every 1 hour of down time at a stretch or in parts.

**7.4 Conditions for No Penalties**

Penalties shall not be levied on the Bidder in the following cases:

- a. There is a force majeure event effecting the SLA, which is beyond the control of the successful bidder. Force Majeure events shall be considered in line with the clause duly mentioned in the RFP
- b. The non-compliance to the SLA has been due to reasons beyond the control of the successful bidder

**8. Responsibility Matrix**

The (Indicative) responsibility matrix (RACIS) describing responsibilities of Supplier and other parties to the project, are mentioned in below matrix. Any specific updates/or changes, as mutually agreed between the Parties, will be finalized/modified through discussion with the bidders.

Where RACIS stands for the following:

**R (Responsibility):** Those who do the work to achieve the task

**A (Accountability):** The one ultimately answerable for the correct and thorough completion of the deliverable or task, and the one who delegates the work to those responsible

**C (Consulted):** Those whose opinions are sought, typically subject matter experts; and with whom there is two-way communication

**I (Informed):** Those who are kept up-to-date on progress, often only on completion of the task or deliverable; and with whom there is just one-way communication

**S (Support):** Resources allocated to responsible

S. No.	Action Items	APSFL	TPA	Supplier	PMA
1.	Contract Signing	A, R	-	A, R	-
2.	Site Survey	S	-	A, R	C
3.	Supply and Delivery of Materials	I	I	A, R	I
4.	Material Inspection	I	A, R	S	C
5.	Installation of Shelter enclosures	I	I	A, R	I
6.	Upgradation of power infrastructure	I	I	A, R	I
7.	Audit the scope of work performed	I	A, R	S	C
8.	Validation and Approval of Invoices	I	A, R	S	C

**PMA (Project Management Agency):**

PMA will be APSFL appointed agency who shall be responsible for project management function, on behalf of APSFL, and shall support in co-ordination at field level for implementation of Shelter Enclosures at all Mandal and Master Mandal locations.

**TPA (Third Party Auditor):**

TPA will be APSFL appointed agency who shall be responsible for review and validation of complete scope of work executed by PIA/supplier and shall also be responsible for subsequently approving their invoices and levy penalties (if applicable).

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

**Annexure A: List of locations**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
1	B	Anantapur	502	Agali	5354	Mandal	13.7966076	77.0489442
2	B	Anantapur	502	Amadagur	5361	Mandal	13.8927617	78.0168535
3	B	Anantapur	502	Amarapuram	5351	Mandal	14.1177187	76.9815001
4	B	Anantapur	502	Atmakur	5322	Mandal	14.6455970	77.3645550
5	B	Anantapur	502	B.K.Samudram	5329	Mandal	14.6965118	77.6391507
6	B	Anantapur	502	Bathalapalli	5337	Mandal	14.5177110	77.7636630
7	B	Anantapur	502	Beluguppa	5318	Mandal	14.7113998	77.1415212
8	B	Anantapur	502	Bommanahal	5307	Mandal	14.9981811	76.9822105
9	B	Anantapur	502	Bramhasamudram	5320	Mandal	14.5588701	76.9709372
10	B	Anantapur	502	C.K.Palli	5347	Mandal	14.3138364	77.6337655
11	B	Anantapur	502	Chilamathur	5366	Mandal	13.8378410	77.7003460
12	B	Anantapur	502	D.Hirehal	5304	Mandal	14.9075201	76.8768770
13	B	Anantapur	502	Dharmavaram	5336	Mandal	14.4275515	77.7111149
14	B	Anantapur	502	Gandlapenta	5342	Mandal	14.0948660	78.2817570
15	B	Anantapur	502	Garladdine	5324	Mandal	14.8118680	77.5980200
16	B	Anantapur	502	Gooty	5310	Mandal	15.1240700	77.6373190
17	B	Anantapur	502	Gorantla	5362	Mandal	13.9778372	77.7466381
18	B	Anantapur	502	Gummagatta	5319	Mandal	14.5722374	76.8723298
19	B	Anantapur	502	Hindupur	5364	Mandal	13.8368173	77.4963025
20	B	Anantapur	502	Kambaduru	5334	Mandal	14.3354620	77.2352170
21	B	Anantapur	502	Kanekal	5306	Mandal	14.8070780	77.0694780
22	B	Anantapur	502	Kudair	5323	Mandal	14.7308920	77.4344920
23	B	Anantapur	502	Kundrupi	5333	Mandal	14.2894866	77.0418726
24	B	Anantapur	502	Lepakshi	5365	Mandal	13.8052474	77.6028720
25	B	Anantapur	502	Madakasira	5350	Mandal	13.9363770	77.2869090
26	B	Anantapur	502	N.P. Kunta	5341	Mandal	14.0612179	78.4096608

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S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
27	B	Anantapur	502	Narpala	5328	Mandal	14.7124467	77.8043646
28	B	Anantapur	502	O.D.Chervuvu	5358	Mandal	14.0238710	77.9961170
29	B	Anantapur	502	Parigi	5355	Mandal	13.8874650	77.4667710
30	B	Anantapur	502	Peddapappur	5314	Mandal	14.9420814	77.8716102
31	B	Anantapur	502	Peddavadugur	5311	Mandal	15.0072210	77.7199210
32	B	Anantapur	502	Putluru	5326	Mandal	14.7587723	77.9343952
33	B	Anantapur	502	Puttaparthi	5357	Mandal	14.1518210	77.8117310
34	B	Anantapur	502	Ramagiri	5348	Mandal	14.3411216	77.3593915
35	B	Anantapur	502	Rayadurg	5305	Mandal	14.7032830	76.8589510
36	B	Anantapur	502	Roddam	5349	Mandal	14.0859810	77.4296140
37	B	Anantapur	502	Rolla	5353	Mandal	13.8441000	77.1003960
38	B	Anantapur	502	Settur	5332	Mandal	14.4567830	76.9788210
39	B	Anantapur	502	Singanamala	5325	Mandal	14.7994480	77.7141240
40	B	Anantapur	502	Somandepalle	5363	Mandal	14.0070080	77.6212110
41	B	Anantapur	502	Tadimarri	5338	Mandal	14.5613250	77.8534990
42	B	Anantapur	502	Tadpatri	5313	Mandal	14.9100170	77.9903150
43	B	Anantapur	502	Talupula	5340	Mandal	14.2460620	78.2502800
44	B	Anantapur	502	Tanakal	5360	Mandal	13.9292770	78.1911900
45	B	Anantapur	502	Uravakonda	5317	Mandal	14.9378470	77.2578900
46	B	Anantapur	502	Vidapanakal	5308	Mandal	15.0447168	77.1937727
47	B	Anantapur	502	Yadiki	5312	Mandal	15.0545550	77.8323580
48	B	Anantapur	502	Yellanur	5327	Mandal	14.7131420	78.0464800
49	B	Anantapur	502	Nallacheruvu	5359	Mandal	13.9874000	78.1757410
50	B	Anantapur	502	Gudibanda	5352	Mandal	13.9856460	77.1536330
51	B	Anantapur	502	Guntakal	5309	Mandal	15.1585840	77.3683460
52	B	Anantapur	502	Kadiri	5343	Mandal	14.1476380	78.1482900
53	B	Anantapur	502	Kanaganapalli	5335	Mandal	14.4554120	77.5239160

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S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
54	B	Anantapur	502	Pamidi	5315	Mandal	14.9551500	77.5940900
55	B	Anantapur	502	Vajrakarur	5316	Mandal	15.0198680	77.3773200
56	B	Anantapur	502	Bukkapatnam	5345	Mandal	14.3102967	77.9270013
57	B	Anantapur	502	Kothacheruvu	5346	Mandal	14.2603570	77.7736100
58	B	Anantapur	502	Nallamada	5344	Mandal	14.0669670	78.0528919
59	B	Anantapur	502	Raptadu	5331	Mandal	14.4961750	77.6221290
60	B	Anantapur	502	Anantapur	5330	Master Mandal	14.6689718	77.6099157
61	B	Anantapur	502	Kalyanadurgam	5321	Master Mandal	14.5591480	77.1194270
62	B	Anantapur	502	Mudigubba	5339	Master Mandal	14.3528355	77.9944300
63	B	Anantapur	502	Penukonda	5356	Master Mandal	14.1168330	77.6184760
64	B	Chittoor	503	Bangarupalem	5429	Mandal	13.1904650	78.9085400
65	B	Chittoor	503	Gangadhara Nellore	5420	Mandal	13.2359500	79.1856500
66	B	Chittoor	503	Gudupalle	5426	Mandal	12.8011336	78.2737730
67	B	Chittoor	503	K.V.B.Puram	5382	Mandal	13.5254402	79.7356869
68	B	Chittoor	503	Nagari	5406	Mandal	13.3194300	79.5762390
69	B	Chittoor	503	Nindra	5404	Mandal	13.3766030	79.7049610
70	B	Chittoor	503	Pitchatur	5401	Mandal	13.3921270	79.7404570
71	B	Chittoor	503	Ramakuppam	5428	Mandal	12.9061810	78.4907100
72	B	Chittoor	503	Chandragiri	5384	Mandal	13.5888610	79.3118870
73	B	Chittoor	503	Renigunta	5376	Mandal	13.6312750	79.4891500
74	B	Chittoor	503	Srirangarajapuram	5419	Mandal	13.2804580	79.3517400
75	B	Chittoor	503	Kambhamvaripalle	5372	Mandal	13.8148785	78.8982882
76	B	Chittoor	503	Pakala	5396	Mandal	13.4465780	79.1124030
77	B	Chittoor	503	Ramasamudram	5414	Mandal	13.3666890	78.4352460
78	B	Chittoor	503	Sodam	5394	Mandal	13.5467360	78.9182960
79	B	Chittoor	503	Yerravaripalem	5374	Mandal	13.7119260	79.1295710
80	B	Chittoor	503	Piler	5386	Mandal	13.6536970	78.9533150



**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
81	B	Chittoor	503	Tirupati (Urban)	5383	Master Mandal/No GPs	13.61456	79.3948263
82	B	Chittoor	503	Chinnagottigallu	5385	Mandal	13.7094394	79.1900450
83	B	Chittoor	503	Gangavaram	5417	Mandal	13.2534940	78.7222760
84	B	Chittoor	503	Palasamudram	5432	Mandal	13.2191438	79.4200348
85	B	Chittoor	503	Thottambedu	5379	Mandal	13.7801510	79.7283330
86	B	Chittoor	503	Palamaner	5422	Master Mandal	13.20174512	78.75053735
87	C	East Godavari	505	Addateegala	4887	Mandal	17.4667961	82.0253710
88	C	East Godavari	505	Ainavilli	4933	Mandal	16.6590257	82.0121234
89	C	East Godavari	505	Alamuru	4925	Mandal	16.7941760	81.8936960
90	C	East Godavari	505	Allavaram	4940	Mandal	16.5146925	81.9866029
91	C	East Godavari	505	Anaparthi	4917	Mandal	16.9458590	81.9530127
92	C	East Godavari	505	Biccavolu	4916	Mandal	17.0010982	82.0443462
93	C	East Godavari	505	Gangavaram	4894	Mandal	17.4170401	81.9117119
94	C	East Godavari	505	Gollaprolu	4902	Mandal	17.1928407	82.3087903
95	C	East Godavari	505	Jaggampeta	4898	Mandal	17.1749237	82.0606996
96	C	East Godavari	505	Kadium	4918	Mandal	16.9310040	81.7979546
97	C	East Godavari	505	Kakinada Rural	4913	Mandal	16.9980260	82.2479630
98	C	East Godavari	505	Karapa	4922	Mandal	16.8976840	82.1653070
99	C	East Godavari	505	Kirlampudi	4899	Mandal	17.2056460	82.1025010
100	C	East Godavari	505	Kothapeta	4927	Mandal	16.7055788	81.8971132
101	C	East Godavari	505	Mandapeta	4920	Mandal	16.8618060	81.9435680
102	C	East Godavari	505	Maredumilli	4884	Mandal	17.6004741	81.7102851
103	C	East Godavari	505	Pamarru	4929	Mandal	16.7592734	82.0036310
104	C	East Godavari	505	Pithapuram	4911	Mandal	17.1300021	82.2538000
105	C	East Godavari	505	Prathipadu	4900	Mandal	17.2238250	82.1890670
106	C	East Godavari	505	Rajanagaram	4908	Mandal	17.0753916	81.9014561

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
107	C	East Godavari	505	Rajavommangi	4888	Mandal	17.5450900	82.2307790
108	C	East Godavari	505	Rangampeta	4909	Mandal	17.0926289	81.9984814
109	C	East Godavari	505	Ravulapalem	4926	Mandal	16.7658170	81.8256630
110	C	East Godavari	505	Rayavaram	4921	Mandal	16.9179249	82.0063143
111	C	East Godavari	505	Razole	4937	Mandal	16.4629520	81.8439910
112	C	East Godavari	505	Rowthulapudi	4891	Mandal	17.3778091	82.3690724
113	C	East Godavari	505	Samalkota	4910	Mandal	17.0635930	82.1770330
114	C	East Godavari	505	Sankhavaram	4892	Mandal	17.3056690	82.3665840
115	C	East Godavari	505	Tallarevu	4930	Mandal	16.7855987	82.2328297
116	C	East Godavari	505	Thondangi	4901	Mandal	17.2375194	82.4749518
117	C	East Godavari	505	U.Kothapalli	4912	Mandal	17.0925031	82.3141407
118	C	East Godavari	505	Y.Ramavaram	4886	Mandal	17.6761621	81.9554523
119	C	East Godavari	505	Ambajipeta	4935	Mandal	16.5921490	81.9531230
120	C	East Godavari	505	Katrenikona	4943	Mandal	16.5868170	82.1470810
121	C	East Godavari	505	Malikipuram	4938	Mandal	16.4048270	81.7977280
122	C	East Godavari	505	Mummidivaram	4932	Mandal	16.6325011	82.0937914
123	C	East Godavari	505	Pedapudi	4915	Mandal	16.9430097	82.0890623
124	C	East Godavari	505	Rampachodavaram	4895	Mandal	17.4316770	81.7879130
125	C	East Godavari	505	Atreyapuram	4919	Mandal	16.8228104	81.7834733
126	C	East Godavari	505	Gandepalle	4904	Mandal	17.1346280	81.9541370
127	C	East Godavari	505	Gokavaram	4897	Mandal	17.2649278	81.8523800
128	C	East Godavari	505	I.Polavaram	4931	Mandal	16.6575220	82.1883050
129	C	East Godavari	505	Kajuluru	4923	Mandal	16.8476750	82.1611870
130	C	East Godavari	505	Korukonda	4905	Mandal	17.1783080	81.8351094
131	C	East Godavari	505	P.Gannavaram	4934	Mandal	16.5932740	81.8957410
132	C	East Godavari	505	Rajahundry Rural	4907	Mandal	17.0314982	81.7904212
133	C	East Godavari	505	Tuni	4890	Mandal	17.3496170	82.5466620

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
134	C	East Godavari	505	Uppalaguptam	4942	Mandal	16.5537900	82.0945560
135	C	East Godavari	505	Yeleswaram	4893	Mandal	17.2948680	82.1082150
136	C	East Godavari	505	Mamidikuduru	4936	Mandal	16.5099032	81.8974353
137	C	East Godavari	505	Sakhinetipalle	4939	Mandal	16.4038890	81.7574500
138	C	East Godavari	505	Chintur	4732	Mandal	0	0
139	C	East Godavari	505	Devipatnam	4885	Mandal	0	0
140	C	East Godavari	505	Kunavaram	4731	Mandal	0	0
141	C	East Godavari	505	Nellipaka	6063	Mandal	0	0
142	C	East Godavari	505	Vrpuram	4733	Mandal	0	0
143	C	East Godavari	505	Rajahmundry (Fully Urban)	4906	Master Mandal/No GPs	17.01380129	81.78332524
144	C	East Godavari	505	Ramachandrapuram	4924	Master Mandal	16.83319003	82.03817701
145	C	East Godavari	505	Kapileswarapuram	4928	Mandal	16.7407574	81.9201696
146	C	East Godavari	505	Kotananduru	4889	Mandal	17.4552541	82.4328575
147	C	East Godavari	505	Seethanagaram	4896	Mandal	17.1471925	81.7180339
148	C	East Godavari	505	Amalapuram	4941	Master Mandal	16.58027129	81.99540439
149	C	East Godavari	505	Kakinada (Fully Urban)	4914	Master Mandal/No GPs	16.94925053	82.22978921
150	C	East Godavari	505	Peddapuram	4903	Master Mandal	17.08520598	82.12777531
151	A	Guntur	506	Ipur	5065	Mandal	16.2201700	79.7793380
152	A	Guntur	506	Karlapalem	5092	Mandal	15.9500740	80.5619350
153	A	Guntur	506	Nizampatnam	5094	Mandal	15.9364910	80.6878520
154	A	Guntur	506	Pittalavanipalem	5091	Mandal	15.9853180	80.6382320
155	A	Guntur	506	Ponnur	5084	Mandal	16.0804476	80.5476720
156	A	Guntur	506	Prathipadu	5081	Mandal	16.1845215	80.3444766
157	A	Guntur	506	Repalle	5096	Mandal	16.0144702	80.8419751
158	A	Guntur	506	Tadikonda	5056	Mandal	16.4012676	80.4231772

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
159	A	Guntur	506	Vemuru	5087	Mandal	16.1838850	80.7333380
160	A	Guntur	506	Amaravathi	5052	Mandal	16.5650310	80.3587810
161	A	Guntur	506	Amruthalur	5086	Mandal	16.1093190	80.6513250
162	A	Guntur	506	Atchampet	5050	Mandal	16.6327330	80.1198950
163	A	Guntur	506	Bhattiprolu	5089	Mandal	16.0959760	80.7843660
164	A	Guntur	506	Cherukupalle	5090	Mandal	16.0331730	80.6569950
165	A	Guntur	506	Dachepalle	5045	Mandal	16.6048310	79.7211720
166	A	Guntur	506	Duggirala	5076	Mandal	16.3294380	80.6211580
167	A	Guntur	506	Durgi	5042	Mandal	16.4223470	79.5366680
168	A	Guntur	506	Edlapadu	5071	Mandal	16.1783050	80.2372070
169	A	Guntur	506	Gurazala	5044	Mandal	16.5614660	79.6464480
170	A	Guntur	506	Karempudi	5046	Mandal	16.4317183	79.7160671
171	A	Guntur	506	Kollipara	5077	Mandal	16.2801140	80.7493451
172	A	Guntur	506	Kollur	5088	Mandal	16.1756800	80.8031410
173	A	Guntur	506	Krosuru	5051	Mandal	16.5507490	80.1462510
174	A	Guntur	506	Machavaram	5048	Mandal	16.5731558	79.8719732
175	A	Guntur	506	Macherla	5040	Mandal	16.4678921	79.4314995
176	A	Guntur	506	Medikonduru	5073	Mandal	16.3395909	80.2989429
177	A	Guntur	506	Muppalla	5068	Mandal	16.3270790	80.0995120
178	A	Guntur	506	Nadendla	5069	Mandal	16.1145693	80.1801491
179	A	Guntur	506	Nekarikallu	5060	Mandal	16.3747352	79.9440986
180	A	Guntur	506	Nuzendla	5063	Mandal	15.9192810	79.7380760
181	A	Guntur	506	Pedakakani	5075	Mandal	16.3509580	80.4921440
182	A	Guntur	506	Pedakurapadu	5057	Mandal	16.4600440	80.2562022
183	A	Guntur	506	Pedanandipadu	5082	Mandal	16.0688270	80.3385240
184	A	Guntur	506	Phirangipuram	5072	Mandal	16.2962419	80.2543653
185	A	Guntur	506	Rajupalem	5059	Mandal	16.4614720	80.0125660

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
186	A	Guntur	506	Rentachintala	5043	Mandal	16.5488900	79.5361945
187	A	Guntur	506	Sattenapalle	5058	Mandal	16.3915117	80.1626748
188	A	Guntur	506	Savalyapuram	5064	Mandal	16.1079240	79.8205840
189	A	Guntur	506	Vatticherukuru	5080	Mandal	16.1822709	80.4429110
190	A	Guntur	506	Veldurthi	5041	Mandal	16.3512598	79.3744491
191	A	Guntur	506	Vinukonda	5062	Mandal	16.0620169	79.7402660
192	A	Guntur	506	Mangalagiri	5055	Mandal	16.4349690	80.5711650
193	A	Guntur	506	Thullur	5053	Mandal	16.5134269	80.5175400
194	A	Guntur	506	Chebrolu	5079	Mandal	16.2056420	80.5219490
195	A	Guntur	506	Kakumanu	5083	Mandal	16.0491200	80.3980521
196	A	Guntur	506	Nagaram	5095	Mandal	16.0019610	80.7235750
197	A	Guntur	506	Rompicherla	5066	Mandal	16.2124068	79.9161699
198	A	Guntur	506	Tadepalle	5054	Mandal	16.4669300	80.5904640
199	A	Guntur	506	Tsundur	5085	Mandal	16.1666036	80.5860317
200	A	Guntur	506	Bellamkonda	5049	Mandal	16.4895010	80.0138320
201	A	Guntur	506	Bollapalle	5061	Mandal	16.3306970	79.7107480
202	A	Guntur	506	Chilakaluripet	5070	Mandal	16.0937667	80.1040986
203	A	Guntur	506	Bapatla	5093	Master Mandal	15.89199671	80.47242107
204	A	Guntur	506	Narasaraopet	5067	Master Mandal	16.24058875	80.07847277
205	A	Guntur	506	Piduguralla	5047	Master Mandal	16.46365147	79.9157799
206	A	Guntur	506	Guntur	5074	Master Mandal	16.30500993	80.43501482
207	A	Guntur	506	Tenali	5078	Master Mandal	16.23979043	80.63379961
208	B	Kadapa	504	Chakrayapet	5234	Mandal	14.2614821	78.4989942
209	B	Kadapa	504	Chinnamandem	5236	Mandal	13.9492019	78.6885566
210	B	Kadapa	504	Chinthakommadinne	5231	Mandal	14.4392993	78.8040750
211	B	Kadapa	504	Gopavaram	5211	Mandal	14.6803120	79.1559150
212	B	Kadapa	504	Kondapuram	5199	Mandal	14.7633541	78.1666533

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
213	B	Kadapa	504	S.Mydukur	5204	Mandal	14.7342419	78.7260954
214	B	Kadapa	504	Vemula	5220	Mandal	14.3709710	78.3290010
215	B	Kadapa	504	Atlur	5227	Mandal	14.5678180	79.0383610
216	B	Kadapa	504	B.Kodur	5209	Mandal	14.8849970	78.9729060
217	B	Kadapa	504	Badvel	5210	Mandal	14.7388840	79.0576780
218	B	Kadapa	504	Brahmamgarimattam	5205	Mandal	14.8274795	78.8786484
219	B	Kadapa	504	Chennur	5226	Mandal	14.5562910	78.7948400
220	B	Kadapa	504	Chitvel	5245	Mandal	14.1781818	79.3247172
221	B	Kadapa	504	Duvvur	5203	Mandal	14.8334027	78.6632012
222	B	Kadapa	504	Galiveedu	5235	Mandal	14.0175578	78.5268500
223	B	Kadapa	504	Jammalamadugu	5215	Mandal	14.8562890	78.3860210
224	B	Kadapa	504	Kalasapadu	5207	Mandal	15.1038020	78.9398290
225	B	Kadapa	504	Kodur	5249	Mandal	13.9843300	79.3375400
226	B	Kadapa	504	Lakkireddipalle	5240	Mandal	14.1941827	78.6871070
227	B	Kadapa	504	Lingala	5218	Mandal	14.4927250	78.1255830
228	B	Kadapa	504	Nandalur	5243	Mandal	14.2870980	79.1142280
229	B	Kadapa	504	Obulavaripalle	5248	Mandal	14.0229870	79.2550680
230	B	Kadapa	504	Peddamudium	5201	Mandal	15.0075533	78.4656769
231	B	Kadapa	504	Pulivendula	5219	Mandal	14.4125680	78.2187850
232	B	Kadapa	504	Rajupalem	5202	Mandal	14.8638920	78.5807700
233	B	Kadapa	504	Sidhout	5229	Mandal	14.4695320	78.9568440
234	B	Kadapa	504	Simhadripuram	5217	Mandal	14.6215074	78.1316052
235	B	Kadapa	504	Sri Avadhutha Kasinayana	5206	Mandal	15.0509780	78.9279700
236	B	Kadapa	504	T Sundupalle	5238	Mandal	13.9821114	78.9091220
237	B	Kadapa	504	Thondur	5221	Mandal	14.5768390	78.2852720
238	B	Kadapa	504	Vallur	5225	Mandal	14.5702834	78.7119541

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
239	B	Kadapa	504	Veeraballe	5242	Mandal	14.1502316	78.8546530
240	B	Kadapa	504	Veerapunayunipalle	5222	Mandal	14.4647470	78.4222210
241	B	Kadapa	504	Vontimitta	5228	Mandal	14.4119740	79.0281450
242	B	Kadapa	504	Yerraguntla	5223	Mandal	14.6311030	78.5392030
243	B	Kadapa	504	Chapad	5213	Mandal	14.7269602	78.6502992
244	B	Kadapa	504	Khajipet	5212	Mandal	14.6465237	78.7609945
245	B	Kadapa	504	Muddanur	5216	Mandal	14.6782346	78.4002532
246	B	Kadapa	504	Penagalur	5244	Mandal	14.2949870	79.2612180
247	B	Kadapa	504	Pullampeta	5247	Mandal	14.1162937	79.2203936
248	B	Kadapa	504	Rajampet	5246	Mandal	14.1897487	79.1645860
249	B	Kadapa	504	Ramapuram	5241	Mandal	14.2146520	78.7442741
250	B	Kadapa	504	Porumamilla	5208	Master Mandal	14.99624132	78.98964899
251	B	Kadapa	504	Proddatur	5214	Master Mandal	14.747542	78.543517
252	B	Kadapa	504	Pendlimarri	5232	Mandal	14.4470310	78.6479080
253	B	Kadapa	504	Sambepalle	5237	Mandal	13.9612170	78.7526600
254	B	Kadapa	504	Kamalapuram	5224	Mandal	14.5826500	78.6533290
255	B	Kadapa	504	Mylavaram	5200	Mandal	14.8973938	78.3126988
256	B	Kadapa	504	Rayachoti	5239	Mandal	14.0687925	78.7401679
257	B	Kadapa	504	Kadapa	5230	Master Mandal/No GPs	14.454011	78.829795
258	B	Kadapa	504	Vempalle	5233	Master Mandal	14.377207	78.458998
259	A	Krishna	510	Chandrapadu	5008	Mandal	16.7018890	80.2005800
260	A	Krishna	510	G Konduru	5006	Mandal	16.6853120	80.5808520
261	A	Krishna	510	Gampalagudem	4996	Mandal	16.9902330	80.5182900
262	A	Krishna	510	Ibrahimpatnam	5009	Mandal	16.5848840	80.5235770
263	A	Krishna	510	Kanchikacherla	5007	Mandal	16.6742280	80.3967980
264	A	Krishna	510	Movva	5032	Mandal	16.2185880	80.9128150

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
265	A	Krishna	510	Reddigudem	4999	Mandal	16.8513038	80.7269156
266	A	Krishna	510	Agiripalli	5005	Mandal	16.6855770	80.7895120
267	A	Krishna	510	Akonduru	4998	Mandal	16.9876469	80.6589313
268	A	Krishna	510	Avanigadda	5037	Mandal	16.0246190	80.9255029
269	A	Krishna	510	Bantumilli	5019	Mandal	16.3740910	81.2673800
270	A	Krishna	510	Challapalli	5035	Mandal	16.1247185	80.9292233
271	A	Krishna	510	Gannavaram	5012	Mandal	16.5464520	80.8016010
272	A	Krishna	510	Ghantasala	5033	Mandal	16.1771090	80.9362330
273	A	Krishna	510	Gudlavalleru	5029	Mandal	16.3386353	81.0681945
274	A	Krishna	510	Guduru	5031	Mandal	16.2332182	81.0485784
275	A	Krishna	510	Jaggayyapeta	4991	Mandal	16.8954330	80.1101620
276	A	Krishna	510	Kaikaluru	5016	Mandal	16.5519760	81.1979030
277	A	Krishna	510	Koduru	5039	Mandal	16.0074490	81.0308200
278	A	Krishna	510	Kruthivennu	5018	Mandal	16.3682150	81.3736720
279	A	Krishna	510	Machilipatnam	5034	Mandal	16.1832125	81.1168353
280	A	Krishna	510	Mandavalli	5015	Mandal	16.4887220	81.1533880
281	A	Krishna	510	Mudinepalli	5020	Mandal	16.4188163	81.1190421
282	A	Krishna	510	Musunuru	5002	Mandal	16.8261930	80.9170300
283	A	Krishna	510	Mylavaram	4995	Mandal	16.7740890	80.6404190
284	A	Krishna	510	Nagayalanka	5038	Mandal	15.9442536	80.9198357
285	A	Krishna	510	Nandigama	4993	Mandal	16.7681062	80.2814121
286	A	Krishna	510	Pamidimukkala	5026	Mandal	16.3030599	80.8674373
287	A	Krishna	510	Pedana	5030	Mandal	16.2629450	81.1591616
288	A	Krishna	510	Penamaluru	5024	Mandal	16.4705500	80.7015720
289	A	Krishna	510	Penuganchiprolu	4992	Mandal	16.9101920	80.2393870
290	A	Krishna	510	Thotlavalluru	5025	Mandal	16.3457020	80.7881500
291	A	Krishna	510	Tiruvuru	4997	Mandal	17.1069110	80.5998450



**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
292	A	Krishna	510	Vatsavai	4990	Mandal	16.9592810	80.2200520
293	A	Krishna	510	Veerullapadu	4994	Mandal	16.8212030	80.3963650
294	A	Krishna	510	Vissannapet	5000	Mandal	16.9497180	80.7739410
295	A	Krishna	510	Bapulapadu	5004	Mandal	16.6401400	80.9691447
296	A	Krishna	510	Chatrai	5001	Mandal	16.9971210	80.8553030
297	A	Krishna	510	Kalidindi	5017	Mandal	16.5142930	81.2812080
298	A	Krishna	510	Kankipadu	5023	Mandal	16.4395050	80.7695440
299	A	Krishna	510	Mopidevi	5036	Mandal	16.0579205	80.9134362
300	A	Krishna	510	Nandivada	5014	Mandal	16.4961070	80.9886390
301	A	Krishna	510	Vuyyuru	5027	Mandal	16.3581690	80.8600980
302	A	Krishna	510	Pedaparupudi	5022	Mandal	16.4251980	80.9585800
303	A	Krishna	510	Unguturu	5013	Mandal	16.5915549	80.8819560
304	A	Krishna	510	Gudiwada	5021	Master Mandal	16.46994478	81.00985737
305	A	Krishna	510	Nuzvid	5003	Master Mandal	16.786536	80.859212
306	A	Krishna	510	Pamarru	5028	Master Mandal	16.3196057	80.97095539
307	A	Krishna	510	Vijayawada (Urban)	5010	Master Mandal/No GPs	16.50409073	80.63767767
308	A	Krishna	510	Vijayawada (Rural)	5011	Mandal	16.5759820	80.6796780
309	A	Kurnool	511	C.Belagal	5256	Mandal	15.8171550	77.6760220
310	A	Kurnool	511	Gonegandla	5270	Mandal	15.7155320	77.5849780
311	A	Kurnool	511	Halaharvi	5273	Mandal	15.3298840	77.1559830
312	A	Kurnool	511	Krishnagiri	5277	Mandal	15.5538994	77.8336272
313	A	Kurnool	511	Pattikonda	5290	Mandal	15.3922853	77.4981958
314	A	Kurnool	511	Allagadda	5298	Mandal	15.1248645	78.5029262
315	A	Kurnool	511	Aspari	5275	Mandal	15.4821010	77.3852450
316	A	Kurnool	511	Banaganapalle	5288	Mandal	15.2985000	78.2314840
317	A	Kurnool	511	Bandi Atmakur	5283	Mandal	15.5723993	78.5294730

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
318	A	Kurnool	511	Bethamcherla	5279	Mandal	15.4423767	78.1356183
319	A	Kurnool	511	Chagalamarri	5303	Mandal	14.9552920	78.5923240
320	A	Kurnool	511	Chippagiri	5291	Mandal	15.2242670	77.3190500
321	A	Kurnool	511	Dornipadu	5299	Mandal	15.2071270	78.4412370
322	A	Kurnool	511	Gadivemula	5281	Mandal	15.6842107	78.4191996
323	A	Kurnool	511	Gospadu	5287	Mandal	15.3622851	78.4198596
324	A	Kurnool	511	Holagunda	5272	Mandal	15.4908895	77.0426828
325	A	Kurnool	511	Jupadu Bungalow	5262	Mandal	15.8604020	78.3780520
326	A	Kurnool	511	Kodumur	5269	Mandal	15.6906480	77.7743130
327	A	Kurnool	511	Koilkuntla	5296	Mandal	15.2311060	78.3084880
328	A	Kurnool	511	Kolimigundla	5301	Mandal	15.0798100	78.1101220
329	A	Kurnool	511	Kosigi	5251	Mandal	15.8496631	77.2387957
330	A	Kurnool	511	Kothapalle	5263	Mandal	15.9417750	78.5508790
331	A	Kurnool	511	Kowthalam	5252	Mandal	15.7659324	77.1387757
332	A	Kurnool	511	Maddikera (East)	5292	Mandal	15.2584377	77.4183608
333	A	Kurnool	511	Mahanandi	5285	Mandal	15.4686860	78.6271520
334	A	Kurnool	511	Mantralayam	5250	Mandal	15.9363386	77.4233436
335	A	Kurnool	511	Midthur	5267	Mandal	15.7660530	78.2971430
336	A	Kurnool	511	Nandikotkur	5260	Mandal	15.8317460	78.2721890
337	A	Kurnool	511	Orvakal	5268	Mandal	15.6795673	78.1742116
338	A	Kurnool	511	Owk	5295	Mandal	15.2161251	78.1227554
339	A	Kurnool	511	Pagidyala	5261	Mandal	15.9272810	78.3322250
340	A	Kurnool	511	Pamulapadu	5266	Mandal	15.8413990	78.4959500
341	A	Kurnool	511	Peapully	5294	Mandal	15.2955370	77.9011370
342	A	Kurnool	511	Pedda Kadubur	5253	Mandal	15.7490815	77.3529909
343	A	Kurnool	511	Rudravaram	5297	Mandal	15.2362670	78.6034380
344	A	Kurnool	511	Sanjamala	5300	Mandal	15.1523680	78.2921480

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
345	A	Kurnool	511	Sirvel	5286	Mandal	15.3224760	78.5217730
346	A	Kurnool	511	Tuggali	5293	Mandal	15.3204916	77.5410498
347	A	Kurnool	511	Uyyalawada	5302	Mandal	15.0934364	78.4052347
348	A	Kurnool	511	Veldurthi	5278	Mandal	15.5462812	77.9254169
349	A	Kurnool	511	Velgode	5282	Mandal	15.7316750	78.5683250
350	A	Kurnool	511	Alur	5274	Mandal	15.3993670	77.2229810
351	A	Kurnool	511	Devanakonda	5276	Mandal	15.6297487	77.6689792
352	A	Kurnool	511	Gudur	5257	Mandal	15.7812524	77.7947114
353	A	Kurnool	511	Nandavaram	5255	Mandal	15.8416437	77.4814857
354	A	Kurnool	511	Panyam	5280	Mandal	15.5109190	78.3368730
355	A	Kurnool	511	Srisailam	6538	Mandal/ No GPs	16.0735980	78.8761700
356	A	Kurnool	511	Yemmiganur	5254	Mandal	15.7706250	77.4720080
357	A	Kurnool	511	Kallur	5258	Mandal	15.7103117	77.9946094
358	A	Kurnool	511	Adoni	5271	Master Mandal	15.607785	77.267778
359	A	Kurnool	511	Atmakur	5265	Master Mandal	15.879875	78.598786
360	A	Kurnool	511	Dhone	5289	Master Mandal	15.405457	77.876153
361	A	Kurnool	511	Kurnool	5259	Master Mandal	15.81826812	78.04186084
362	A	Kurnool	511	Nandyal	5284	Master Mandal	15.480388	78.443587
363	B	Nellore	515	Anumasamudrampeta	5165	Mandal	14.6949420	79.6760060
364	B	Nellore	515	Buchireddipalem	5170	Mandal	14.5416432	79.8662735
365	B	Nellore	515	Chittamur	5193	Mandal	13.9430920	80.0559084
366	B	Nellore	515	Dagadarthi	5166	Mandal	14.6741414	79.9395548
367	B	Nellore	515	Doravarisatram	5196	Mandal	13.8144110	79.9488510
368	B	Nellore	515	Indukurpet	5179	Mandal	14.4771870	80.1214450
369	B	Nellore	515	Kaluvoya	5174	Mandal	14.5111160	79.4169800
370	B	Nellore	515	Kondapuram	5156	Mandal	14.9860190	79.6816980
371	B	Nellore	515	Kota	5191	Mandal	14.0323810	80.0499770

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
372	B	Nellore	515	Kovur	5178	Mandal	14.4913811	79.9859044
373	B	Nellore	515	Manubolu	5183	Mandal	14.2106400	79.8758490
374	B	Nellore	515	Marripadu	5163	Mandal	14.6903040	79.3594520
375	B	Nellore	515	Naidupet	5194	Mandal	13.8871653	79.8919260
376	B	Nellore	515	Tada	5198	Mandal	13.5834810	80.0295140
377	B	Nellore	515	Thotapalligudur	5180	Mandal	14.3955870	80.0851350
378	B	Nellore	515	Udayagiri	5154	Mandal	14.8739162	79.3152396
379	B	Nellore	515	Venkatachalam	5182	Mandal	14.3211740	79.9206880
380	B	Nellore	515	Vinjamur	5161	Mandal	14.8423580	79.5839467
381	B	Nellore	515	Allur	5167	Mandal	14.6840666	80.0669195
382	B	Nellore	515	Ananthasagaram	5173	Mandal	14.5774611	79.4047982
383	B	Nellore	515	Balayapalle	5188	Mandal	14.0633645	79.6825603
384	B	Nellore	515	Dakkili	5186	Mandal	14.1076160	79.5505420
385	B	Nellore	515	Jaladanki	5157	Mandal	14.8765590	79.9054880
386	B	Nellore	515	Kodavalur	5169	Mandal	14.5692610	79.9849780
387	B	Nellore	515	Ozili	5189	Mandal	14.0150650	79.8994500
388	B	Nellore	515	Pellakur	5195	Mandal	13.8443970	79.8189380
389	B	Nellore	515	Podalakur	5176	Mandal	14.3782188	79.7257482
390	B	Nellore	515	Rapur	5175	Mandal	14.1985940	79.5410870
391	B	Nellore	515	Seetharamapuram	5153	Mandal	15.0147611	79.1409269
392	B	Nellore	515	Sullurpeta	5197	Mandal	13.7083523	79.9932372
393	B	Nellore	515	Varikuntapadu	5155	Mandal	14.9884423	79.4220104
394	B	Nellore	515	Venkatagiri	5187	Mandal	13.9223760	79.5960170
395	B	Nellore	515	Vidavalur	5168	Mandal	14.5692251	80.0537329
396	B	Nellore	515	Bogole	5159	Mandal	14.7579615	79.9702294
397	B	Nellore	515	Chejerla	5172	Mandal	14.5127944	79.5775604
398	B	Nellore	515	Duttalur	5162	Mandal	14.8408970	79.4040080

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
399	B	Nellore	515	Kaligiri	5160	Mandal	14.8311130	79.6815540
400	B	Nellore	515	Muthukur	5181	Mandal	14.3517573	80.0606647
401	B	Nellore	515	Sangam	5171	Mandal	14.5911440	79.7485318
402	B	Nellore	515	Sydapuram	5185	Mandal	14.1807690	79.7406460
403	B	Nellore	515	Kavali	5158	Master Mandal	14.91088647	79.9798525
404	B	Nellore	515	Chillakur	5190	Mandal	14.1449273	80.0273133
405	B	Nellore	515	Vakadu	5192	Mandal	14.0171840	80.1277860
406	B	Nellore	515	Atmakur	5164	Master Mandal	14.65157776	79.61681113
407	B	Nellore	515	Gudur	5184	Master Mandal	14.15489	79.859411
408	B	Nellore	515	Nellore	5177	Master Mandal	14.45718324	79.97564707
409	A	Prakasam	517	Chimakurthi	5128	Mandal	15.5781010	79.8707290
410	A	Prakasam	517	Chinaganjam	5125	Mandal	15.7039764	80.2440602
411	A	Prakasam	517	Eddanapudi	5107	Mandal	15.9947080	80.1691850
412	A	Prakasam	517	Giddalur	5133	Mandal	15.3789380	78.9348060
413	A	Prakasam	517	Inkollu	5110	Mandal	15.8309100	80.1834030
414	A	Prakasam	517	Janakavaram Ponguluru	5111	Mandal	15.8338270	80.0458900
415	A	Prakasam	517	Karamchedu	5109	Mandal	15.8916753	80.3069917
416	A	Prakasam	517	Komaarole	5134	Mandal	15.2648490	78.9973830
417	A	Prakasam	517	Konakanamitla	5119	Mandal	15.6470230	79.4951790
418	A	Prakasam	517	Kondapi	5137	Mandal	15.4133500	79.8676190
419	A	Prakasam	517	Korisapadu	5122	Mandal	15.7521265	80.0445792
420	A	Prakasam	517	Kothapatnam	5140	Mandal	15.4306951	80.1528741
421	A	Prakasam	517	Kurichedu	5103	Mandal	15.8977100	79.5802260
422	A	Prakasam	517	Lingasamudram	5150	Mandal	15.0722330	79.7149810
423	A	Prakasam	517	Martur	5106	Mandal	15.9784055	80.1021928
424	A	Prakasam	517	N.G.Padu	5126	Mandal	15.6305261	80.1084171
425	A	Prakasam	517	Pamuru	5146	Mandal	15.0968530	79.4049620

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
426	A	Prakasam	517	Parchur	5108	Mandal	15.9589200	80.2671790
427	A	Prakasam	517	Pedacherlopalli	5144	Mandal	15.2704000	79.5744080
428	A	Prakasam	517	Peddaraveedu	5101	Mandal	15.8147910	79.2307750
429	A	Prakasam	517	Pullalacheruvu	5098	Mandal	16.1529333	79.4289430
430	A	Prakasam	517	Santhamagulur	5104	Mandal	16.1190070	79.9594440
431	A	Prakasam	517	Santhanuthalapadu	5138	Mandal	15.5405710	79.9417730
432	A	Prakasam	517	Singarayakonda	5149	Mandal	15.2441380	80.0160890
433	A	Prakasam	517	Tallur	5121	Mandal	15.7304210	79.8786760
434	A	Prakasam	517	Tangutur	5141	Mandal	15.3448583	80.0223835
435	A	Prakasam	517	Tarlupadu	5118	Mandal	15.6662799	79.3525903
436	A	Prakasam	517	Tripuranthakam	5099	Mandal	16.0036700	79.4538010
437	A	Prakasam	517	Voletivaripalem	5147	Mandal	15.1651803	79.7236027
438	A	Prakasam	517	Yerragondapalem	5097	Mandal	16.0296010	79.3060600
439	A	Prakasam	517	Ardhaveedu	5116	Mandal	15.6211418	79.0442287
440	A	Prakasam	517	Ballikurva	5105	Mandal	16.0059780	80.0287130
441	A	Prakasam	517	C.S.Puram	5145	Mandal	15.1731013	79.2851970
442	A	Prakasam	517	Cumbum	5117	Mandal	15.5901006	79.1160764
443	A	Prakasam	517	Dornala	5100	Mandal	15.9055036	79.1018782
444	A	Prakasam	517	Hanumanthunipadu	5130	Mandal	15.4196080	79.3865290
445	A	Prakasam	517	Maddipadu	5127	Mandal	15.6245764	80.0191758
446	A	Prakasam	517	Marripudi	5129	Mandal	15.5098500	79.6525790
447	A	Prakasam	517	Mundlamuru	5113	Mandal	15.8050560	79.8275360
448	A	Prakasam	517	Podili	5120	Mandal	15.5957320	79.6037780
449	A	Prakasam	517	Racherla	5132	Mandal	15.4856910	78.9724260
450	A	Prakasam	517	Ulavapadu	5152	Mandal	15.1610930	80.0085010
451	A	Prakasam	517	Veligandla	5135	Mandal	15.3366070	79.3486290
452	A	Prakasam	517	Donakonda	5102	Mandal	15.8384779	79.4808327

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
453	A	Prakasam	517	Ponnalur	5143	Mandal	15.2667180	79.8066740
454	A	Prakasam	517	Addanki	5112	Mandal	15.8267860	79.9717070
455	A	Prakasam	517	Gudluru	5151	Mandal	15.0781960	79.9008200
456	A	Prakasam	517	Kandukur	5148	Master Mandal	15.23001777	79.89749228
457	A	Prakasam	517	Kanigiri	5136	Master Mandal	15.39860584	79.50903916
458	A	Prakasam	517	Markapur	5115	Master Mandal	15.77258696	79.27333471
459	A	Prakasam	517	Ongole	5139	Master Mandal	15.49806959	80.04754301
460	A	Prakasam	517	Bestawaripeta	5131	Mandal	15.4216220	79.1341870
461	A	Prakasam	517	Vetapalem	5124	Mandal	15.7803250	80.3271930
462	A	Prakasam	517	Zarugumilli	5142	Mandal	15.3175180	79.8914030
463	A	Prakasam	517	Chirala	5123	Master Mandal	15.79935009	80.32091512
464	A	Prakasam	517	Darsi	5114	Master Mandal	15.79074372	79.65552822
465	C	Srikakulam	519	Amadalavalasa	4798	Mandal	18.3988140	83.9188410
466	C	Srikakulam	519	Bhamini	4771	Mandal	18.9648029	83.8046687
467	C	Srikakulam	519	Burja	4794	Mandal	18.5586230	83.8167230
468	C	Srikakulam	519	Etcherla	4806	Mandal	18.2716134	83.8093217
469	C	Srikakulam	519	Gara	4801	Mandal	18.3075930	84.0418910
470	C	Srikakulam	519	Hiramandalam	4783	Mandal	18.6666052	83.9501581
471	C	Srikakulam	519	Kotturu	4772	Mandal	18.7772986	83.8738489
472	C	Srikakulam	519	Lakshminarsupeta	4787	Mandal	18.6034690	83.9354220
473	C	Srikakulam	519	Nandigam	4782	Mandal	18.6550730	84.3069950
474	C	Srikakulam	519	Palasa	4775	Mandal	18.7701500	84.4154730
475	C	Srikakulam	519	Pathapatnam	4773	Mandal	18.7371410	84.0812100
476	C	Srikakulam	519	Polaki	4800	Mandal	18.3538048	84.1112266
477	C	Srikakulam	519	Rajam	4796	Mandal	18.4464550	83.6730810
478	C	Srikakulam	519	Ranastalam	4805	Mandal	18.2077720	83.6919690
479	C	Srikakulam	519	Regidi Amadalavalasa	4786	Mandal	18.5389819	83.7262966

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
480	C	Srikakulam	519	Santhabommali	4790	Mandal	18.5325650	84.2007210
481	C	Srikakulam	519	Santhakaviti	4795	Mandal	18.4732130	83.7764308
482	C	Srikakulam	519	Saravakota	4788	Mandal	18.5974970	84.0486820
483	C	Srikakulam	519	Sarubujjili	4793	Mandal	18.5367526	83.9165568
484	C	Srikakulam	519	Seethampeta	4770	Mandal	18.6875030	83.8156747
485	C	Srikakulam	519	Sompeta	4780	Mandal	18.9472700	84.5841850
486	C	Srikakulam	519	Vajrapukotturu	4781	Mandal	18.7002099	84.4339823
487	C	Srikakulam	519	Vangara	4785	Mandal	18.6134566	83.6160563
488	C	Srikakulam	519	Veeraghattam	4769	Mandal	18.6881105	83.6049085
489	C	Srikakulam	519	Narasannapeta	4799	Mandal	18.4184440	84.0474530
490	C	Srikakulam	519	Ganguvarisigadam	4797	Mandal	18.3806340	83.6774120
491	C	Srikakulam	519	Ichchapuram	4778	Mandal	19.1044369	84.6821960
492	C	Srikakulam	519	Jalumuru	4792	Mandal	18.5267540	84.0119830
493	C	Srikakulam	519	Kaviti	4779	Mandal	18.9786890	84.6596800
494	C	Srikakulam	519	Kotabommali	4791	Mandal	18.5170590	84.1473190
495	C	Srikakulam	519	Mandasa	4776	Mandal	18.8729971	84.4583569
496	C	Srikakulam	519	Meliaputti	4774	Mandal	18.7683340	84.1722831
497	C	Srikakulam	519	Ponduru	4803	Mandal	18.3505972	83.7671073
498	C	Srikakulam	519	Kanchili	4777	Mandal	18.9781880	84.5852770
499	C	Srikakulam	519	Srikakulam	4802	Master Mandal	18.27332167	83.90607
500	C	Srikakulam	519	Laveru	4804	Mandal	18.2477910	83.7638860
501	C	Srikakulam	519	Tekkali	4789	Master Mandal	18.5880632	84.24410206
502	C	Srikakulam	519	Palakonda	4784	Master Mandal	18.5956287	83.76722131
503	C	Visakhapatnam	520	Anakapalli	4871	Mandal	17.6898370	83.0168810
504	C	Visakhapatnam	520	Anandapuram	4863	Mandal	17.8937310	83.3731040
505	C	Visakhapatnam	520	Ananthagiri	4845	Mandal	18.2374700	83.0067760
506	C	Visakhapatnam	520	Bheemunipatnam	4865	Mandal	17.8926050	83.4369100



**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
507	C	Visakhapatnam	520	Butchayyapeta	4873	Mandal	17.7485802	82.8966542
508	C	Visakhapatnam	520	Cheedikada	4858	Mandal	17.9196560	82.8900090
509	C	Visakhapatnam	520	Chodavaram	4872	Mandal	17.8395857	82.9324630
510	C	Visakhapatnam	520	Devarapalli	4859	Mandal	17.9846830	82.9778930
511	C	Visakhapatnam	520	G.Madugula	4848	Mandal	18.0143990	82.5303260
512	C	Visakhapatnam	520	Hukumpeta	4846	Mandal	18.1532994	82.7053080
513	C	Visakhapatnam	520	Nakkapalli	4880	Mandal	17.3956179	82.7169975
514	C	Visakhapatnam	520	Paderu	4847	Mandal	18.0891170	82.6677980
515	C	Visakhapatnam	520	Padmanabham	4864	Mandal	17.9931900	83.3374649
516	C	Visakhapatnam	520	Pendurthi	4862	Mandal	17.8099133	83.2051467
517	C	Visakhapatnam	520	S.Rayavaram	4882	Mandal	17.4664398	82.7941959
518	C	Visakhapatnam	520	Sabbavaram	4861	Mandal	17.7930842	83.1285185
519	C	Visakhapatnam	520	Visakhapatnam(R)	4866	Mandal/ No GPs	17.7484370	83.3247110
520	C	Visakhapatnam	520	Yelamanchili	4879	Mandal	17.5432208	82.8488424
521	C	Visakhapatnam	520	Payakaraopeta	4881	Mandal	17.3641480	82.5639800
522	C	Visakhapatnam	520	Pedagantyada	4868	Mandal/ No GPs	17.6683520	83.2082180
523	C	Visakhapatnam	520	Chintapalle	4849	Mandal	17.8638820	82.3563410
524	C	Visakhapatnam	520	Koyyuru	4851	Mandal	17.6415550	82.2328980
525	C	Visakhapatnam	520	Munchingiputtu	4841	Mandal	18.3681985	82.5110607
526	C	Visakhapatnam	520	Pedabayalu	4842	Mandal	18.2841960	82.5842130
527	C	Visakhapatnam	520	G.K.Veedhi	4850	Mandal	17.8633413	82.1981378
528	C	Visakhapatnam	520	Gajuwaka	4869	Mandal/ No GPs	17.6931679	83.2076088
529	C	Visakhapatnam	520	Rambilli	4883	Mandal	17.4737940	82.9383000
530	C	Visakhapatnam	520	Visakhapatnam(U)	4867	Mandal/ No GPs	17.7235714	83.2981389
531	C	Visakhapatnam	520	K.Kotapadu	4860	Master Mandal	17.8880560	83.0412870
532	C	Vizianagaram	521	Badangi	4820	Mandal	18.4869080	83.3313150
533	C	Vizianagaram	521	Bhogapuram	4840	Mandal	18.0218970	83.4897710

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
534	C	Vizianagaram	521	Cheepurupalli	4827	Mandal	18.3057581	83.5656841
535	C	Vizianagaram	521	Dattirajeru	4823	Mandal	18.3752605	83.3441450
536	C	Vizianagaram	521	Gajapathinagaram	4825	Mandal	18.2873270	83.3370170
537	C	Vizianagaram	521	Garugubilli	4811	Mandal	18.7118990	83.4950670
538	C	Vizianagaram	521	Gummalaxmipuram	4808	Mandal	18.9682510	83.6602384
539	C	Vizianagaram	521	Jiyyammavalasa	4810	Mandal	18.7829405	83.6010404
540	C	Vizianagaram	521	Komarada	4807	Mandal	18.9032650	83.4632660
541	C	Vizianagaram	521	Kothavalasa	4834	Mandal	17.8859310	83.1884580
542	C	Vizianagaram	521	Makkuva	4813	Mandal	18.6599840	83.2704059
543	C	Vizianagaram	521	Mentada	4824	Mandal	18.3448790	83.2899370
544	C	Vizianagaram	521	Nellimarla	4837	Mandal	18.1710030	83.4442200
545	C	Vizianagaram	521	Pachipenta	4818	Mandal	18.4863852	83.1132123
546	C	Vizianagaram	521	Ramabhadrapuram	4819	Mandal	18.4914440	83.2791280
547	C	Vizianagaram	521	Salur	4817	Mandal	18.5259760	83.2116950
548	C	Vizianagaram	521	Therlam	4821	Mandal	18.4708480	83.5048110
549	C	Vizianagaram	521	Vepada	4832	Mandal	18.0107830	83.0823990
550	C	Vizianagaram	521	Bondapalle	4829	Mandal	18.2581220	83.3364820
551	C	Vizianagaram	521	Merakamudidam	4822	Mandal	18.3720169	83.4512499
552	C	Vizianagaram	521	Balijipeta	4815	Mandal	18.6027340	83.5284220
553	C	Vizianagaram	521	Denkada	4839	Mandal	18.0770140	83.4815750
554	C	Vizianagaram	521	Gantyada	4830	Mandal	18.1408840	83.2948680
555	C	Vizianagaram	521	Gurla	4828	Mandal	18.2135790	83.4686880
556	C	Vizianagaram	521	Jami	4835	Mandal	18.0545418	83.2569331
557	C	Vizianagaram	521	Kurupam	4809	Mandal	18.8608660	83.5453320
558	C	Vizianagaram	521	Lakkavarapukota	4833	Mandal	18.0192060	83.1520140
559	C	Vizianagaram	521	Parvathipuram	4812	Mandal	18.7722500	83.4267170
560	C	Vizianagaram	521	Garividi	4826	Mandal	18.2802730	83.5277830

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
561	C	Vizianagaram	521	Pusapatirega	4838	Mandal	18.0674720	83.5314820
562	C	Vizianagaram	521	Seethanagaram	4814	Mandal	18.6712930	83.3732760
563	C	Vizianagaram	521	Srungavarapukota	4831	Mandal	18.1081820	83.1645350
564	C	Vizianagaram	521	Bobbili	4816	Master Mandal	18.58143675	83.37430894
565	C	Vizianagaram	521	Vizianagaram	4836	Master Mandal	18.119013	83.384451
566	A	West Godavari	523	Bhimadole	4963	Mandal	16.8126970	81.2507130
567	A	West Godavari	523	Chintalapudi	4944	Mandal	17.0534598	80.9844905
568	A	West Godavari	523	Denduluru	4967	Mandal	16.7822570	81.1776225
569	A	West Godavari	523	Devarapalli	4957	Mandal	17.0355620	81.5668940
570	A	West Godavari	523	Dwarakatirumala	4955	Mandal	16.9412960	81.2535450
571	A	West Godavari	523	Elamanchili	4989	Mandal	16.4949590	81.7799850
572	A	West Godavari	523	Gopalapuram	4951	Mandal	17.1103110	81.5345570
573	A	West Godavari	523	Iragavaram	4979	Mandal	16.6897120	81.7050490
574	A	West Godavari	523	Jeelugumilli	4947	Mandal	17.2046390	81.1427011
575	A	West Godavari	523	Kalla	4985	Mandal	16.5333531	81.3987752
576	A	West Godavari	523	Koyyalagudem	4952	Mandal	17.1150972	81.4266666
577	A	West Godavari	523	Lingapalem	4945	Mandal	16.9523404	80.9892074
578	A	West Godavari	523	Nallajerla	4956	Mandal	16.9424391	81.3977100
579	A	West Godavari	523	Narasapur	4987	Mandal	16.4347900	81.6873161
580	A	West Godavari	523	Nidamaruru	4968	Mandal	16.7360179	81.3919798
581	A	West Godavari	523	Palakol	4988	Mandal	16.5121700	81.7462450
582	A	West Godavari	523	Pedapadu	4965	Mandal	16.6348937	81.0376894
583	A	West Godavari	523	Pedavegi	4964	Mandal	16.8099030	81.1088730
584	A	West Godavari	523	T.Narasapuram	4946	Mandal	17.0862208	81.0781399
585	A	West Godavari	523	Tanuku	4972	Mandal	16.7462514	81.6817687
586	A	West Godavari	523	Veeravasaram	4983	Mandal	16.5487872	81.6315039
587	A	West Godavari	523	Akividu	4975	Mandal	16.5741088	81.3739703

**RFP for Procurement of Shelter Enclosures and Upgradation of Power Infrastructure**

S. No	Package	District	Dist Code	Mandal	Mandal Code	Type of Mandal	Latitude	Longitude
588	A	West Godavari	523	Ganapavaram	4974	Mandal	16.7094686	81.5437579
589	A	West Godavari	523	Kovvur	4958	Mandal	16.9957920	81.6977177
590	A	West Godavari	523	Kukunoor	4735	Mandal	17.5512758	81.1578247
591	A	West Godavari	523	Palacoderu	4977	Mandal	16.5487370	81.5764930
592	A	West Godavari	523	Tadepalligudem	4961	Mandal	16.9293996	81.5333572
593	A	West Godavari	523	Velairpadu	4734	Mandal	17.5153644	81.2470996
594	A	West Godavari	523	Achanta	4981	Mandal	16.6016210	81.7978390
595	A	West Godavari	523	Penumantra	4978	Mandal	16.6502830	81.6480200
596	A	West Godavari	523	Poduru	4982	Mandal	16.5946194	81.7409590
597	A	West Godavari	523	Undi	4976	Mandal	16.5901670	81.4676580
598	A	West Godavari	523	Undrajavaram	4970	Mandal	16.7881720	81.7080430
599	A	West Godavari	523	Buttaigudem	4948	Mandal	17.2041054	81.3243424
600	A	West Godavari	523	Chagallu	4959	Mandal	16.9978120	81.6686230
601	A	West Godavari	523	J.R.Gudem	4953	Mandal	17.1248047	81.2705803
602	A	West Godavari	523	Polavaram	4949	Mandal	17.2476130	81.6262530
603	A	West Godavari	523	Tallapudi	4950	Mandal	17.1346499	81.6620023
604	A	West Godavari	523	Attili	4973	Mandal	16.6938320	81.6077770
605	A	West Godavari	523	Pentapadu	4969	Mandal	16.7982560	81.5292190
606	A	West Godavari	523	Penugonda	4980	Mandal	16.6491640	81.7471130
607	A	West Godavari	523	Peravali	4971	Mandal	16.7449970	81.7471780
608	A	West Godavari	523	Bhimavaram	4984	Master Mandal	16.55163789	81.54582173
609	A	West Godavari	523	Eluru	4966	Master Mandal	16.70988301	81.08583944
610	A	West Godavari	523	K. Kota	4954	Master Mandal	17.00180979	81.20297539
611	A	West Godavari	523	Nidadavole	4960	Master Mandal	16.9167787	81.6736592
612	A	West Godavari	523	Unguturu	4962	Master Mandal	16.8115425	81.4086056
613	A	West Godavari	523	Mogalthuru	4986	Mandal	16.4263782	81.6084574