

कार्यालय नगरपालिक निगम, जगदलपुर, जिला-बस्तर, (छत्तीसगढ़)

निविदा सूचना (द्वितीय आमंत्रण)

कमांक/2934/नपानि/लोनवि/2020

जगदलपुर दिनांक 25/11/2020

नगरपालिक निगम जगदलपुर द्वारा नीचे उल्लेखित कार्य हेतु LUMPSUM BASIS ऑनलाईन Open To All निविदा आमंत्रित की जाती है:-

स.क्र.	S.T. No.	कार्य का विवरण	निविदा राशि	धरोहर राशि	निविदा फीस
01	69405	"The Work of "Scientific Dumpsite Land Reclamation through Bio-mining, Resource Recovery and Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per SWM rule 2016 and guideline for Disposal of Legacy Waste at Trenching Ground KANGOLI Dump Site"	214.25 lacs	Rs. 2.00 Lakhs Only TDR/ FDR favour of the Comm. JMC	15000.00 Only DD in favour of the Comm. JMC (Non Refendabl)

निविदा प्रपत्र पर ऑनलाईन वेबसाईट (Main Protal: <http://eproc.cgstate.gov.in>) पर दिनांक 11.12.2020 को सांय 5.30 बजे तक देखे/क्य एवं निविदा की कार्यवाही किये जा सके हैं । अन्य विवरण एवं विस्तृत निविदा विवरण उपेक्त वेबसाईट एवं निगम के वेबसाईट www.nagarnigamjagdalpur.in तथा नगरीय प्रशासन एवं विकास विभाग के वेबसाईट <http://uad.cg.gov.in> मे भी देखी जा सकती है।

"स्वच्छ भारत स्वस्थ भारत निर्माण में योगदान दें"

कार्यपालन अभियंता

नगरपालिक निगम, जगदलपुर

पृ0 कमांक/ 2935 / नपानि/ लोनवि/ 2020

जगदलपुर दिनांक 25/11/2020

प्रतिलिपि:-

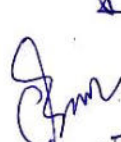
- मान0 महापौर, नगरपालिक निगम, जगदलपुर की ओर सादर सूचनार्थ।
- मान0 अध्यक्ष (स्पीकर), नगरपालिक निगम, जगदलपुर की ओर सादर सूचनार्थ।
- मान0 समापति, आवास पर्यावरण एवं लोक निर्माण विभाग समिति, नगरपालिक निगम, जगदलपुर की ओर सादर सूचनार्थ।
- मान0 नेता प्रतिपक्ष, नगरपालिक निगम जगदलपुर की ओर सादर सूचनार्थ ।
- प्रोग्रामर डाटा सेंटर, संचालनालय नगरीय प्रशासन एवं विकास छ.ग., नया रायपुर की ओर संचालनालय के वेबसाईट में अपलोड कर हेतु अग्रेषित ।
- सम्पादक/संवाददाता समाचार पत्र रायपुर/जगदलपुर । आपके समाचार पत्र में दिनांक के अंक में एक बार 02 कॉलम 08 सेमी साईज में एक बार प्रकाशित करवायी जाकर प्रकाशित समाचार की तीन-तीन प्रतियों सहित देयक भुगतान हेतु प्रस्तुत करें ।
- श्री सुमित महापात्र, जनसंपर्क, नगरपालिक निगम जगदलपुर की ओर शासन के निर्देशानुसार समाचार पत्र में प्रकाशित किये जाने हेतु तीन-तीन प्रतियों में प्रेषित है। समाचार पत्र में प्रकाशन उपरांत प्रकाशित समाचार पत्र की दो-दो प्रति कार्यालय में प्रस्तुत करेंगे।
- सूचना फलक:- मुख्य कार्यालय/लोक निर्माण शाखा/जलप्रदाय शाखा कार्यालय नगर पालिक निगम जगदलपुर में चस्पा हेतु।

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25/11/2020
etc

कार्यपालन अभियंता

नगरपालिक निगम, जगदलपुर


27/11/2020
New Delhi
JMF

JAGDALPUR MUNICIPAL CORPORATION (C.G.)

REQUEST FOR PROPOSAL (IInd Call)

For

LUMPSUM BASIS

“FORM-F” [DOCUMENT]

Name of work :- “The Work of “Scientific Dumpsite Land Reclamation through Bio-mining, Resource Recovery and Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per SWM rule 2016 and guideline for Disposal of Legacy Waste at Trenching Ground KANGOLI Dump Site”

Probable Amount of Contract - Rs. 214.25 Lacs.

Issued to :- -----

Issued by:

Executive Engineer,
Municipal Corporation,
JAGDALPUR (C.G.)

REQUEST FOR PROPOSAL DOCUMENT FOR THE WORK OF

**“The Work of “Scientific Dumpsite Land Reclamation through
Bio-mining, Resource Recovery and
Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per
SWM rule 2016 and guideline for Disposal of Legacy Waste at Trenching
Ground KANGOLI Dump Site“**

**INSTRUCTIONS TO BIDDERS,
QUALIFICATION INFORMATION**

&

FORM “F” (Lump sum Basis)

System Tender No. 69405 (IInd Call)

**NIT NO. 07 / Date – 25.11.2020 The Work of “Scientific Dumpsite Land Reclamation through Bio-mining,
Resource Recovery and Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per SWM
rule 2016 and guideline for Disposal of Legacy Waste at Trenching Ground KANGOLI Dump Site**

COMMISSIONER, MUNICIPAL CORPORATION,

JAGDALPUR [CG.]

OFFICE OF THE COMMISSIONER,

MUNICIPAL CORPORATION, JAGDALPUR [CG.]

NIT NO. 07 Date 25-11-2020. Scientific Dumpsite Land Reclamation through Bio-mining, Resource Recovery and Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per MSW

Rule 2016 and guideline for Disposal of Legacy Waste at Trenching Ground KANGOLI Dump Site.

System Tender No. -69405-DATED 25-11-2020 (IInd Call)

Quick Information data sheet

Name of Work	Scientific Dumpsite Land Reclamation through Bio-mining, Resource Recovery and Scientific Rejects Disposal, of Legacy waste (Old Municipal Solid Waste) as per SWM rule 2016 and guideline for Disposal of Legacy Waste at Trenching Ground KANGOLI Dump Site
Probable amount of contract	Rs. 214.25 Lakhs
Amount of earnest money	Rs. 2.00 Lakhs Only TDR/ FDR in favour of the Commissioner, Municipal Corporation, Jagdalpur
Time allowed for completion	04 (Four Months) months from the date of written order to commence the work including rainy season (16 th June to 15 th October)
Tender Download	25.11.2020 (05:30PM)
Bid Processing Fee	Rs. 15,000.00 Only DD in favour of the Commissioner, Municipal Corporation, Jagdalpur (Non Refendable)
Last Date of Online Bid Submission	11.12.2020 (05:30PM)
Date /Time/Venue of Pre-Bid Meet	03.12.2020 (12.00 to 02.00 PM)
Physical envelope- A shall reach to this office up to 04:30 PM on or before Date: -	14.12.2020 (04.30PM)
Date of Opening of Envelope A & B of tender document Physical envelope- A	15.12.2020 (11.30PM)
Financial Bid & Technical bid Opening (online)	17.12.2020. (11.30AM)
Issued to Shri/M/s.	
Class of Contractor	firms/consortiums/joint ventures sound in both financial and technical capability for the following Work
Engineer-in-charge	Executive Engineer, Municipal Corporation , JAGDALPUR

Note :- Envelop 'A' should contain Proof of E.M.D. proof of bid processing fee and affidavit regarding information attached in form 14,

Envelop 'B' should contain Technical Details & Financial Capacity / Documents of Tender. And shall be submitted online only

Municipal Corporation JAGDALPUR (C.G.)

E-Procurement Notice (IInd Call)

TENDER NO. 69405 JMC/2020-21.

Date 25-11-2020

Tenders are invited on behalf of Municipal Corporation JAGDALPUR C.G. from reputed and **eligible companies /firms/consortiums/joint ventures sound in both financial and technical capability for the following Work**

Description Package	Processing fee (Lumpsum) for Assessment, Evaluation Management, Bioremediation and scientific Closure and land reclamation through bio-mining processing of old Legacy Waste, Resource Recovery and Disposal, inert segregation and disposal from the existing dump site at Trenching Ground Kangoli , Municipal Corporation JAGDALPUR area as per SWM Rule 2016 and guideline of legacy waste Management (CPCB) New Delhi within 06 Months.
Estimated Quantity	60000 Cubic Meters
Probable Amount	214.25 Lakh
Earnest Money (In Lakhs)	2.00 Lakhs Only DD/TDR/ FDR in favour of the Commissioner, Municipal Corporation, Jagdalpur
Bid Processing fee	15,000/- Only DD in favour of the Commissioner, Municipal Corporation, Jagdalpur (Non Refendable)
Completion period	06 Months

Schedule of Bidding Process: -

JAGDALPUR Nagar Nigam Would Endeavour to adhere to the following Schedule during the

Bidding. Process: -

- 1. Issue of Tender/RFP Online. 25.11.2020 (05:30PM)**
- 2. Site Visit at 01.12.2020 (11:30AM)**
- 3. Last date for Receiving Queries 02.12.2020 (03:00PM)**
- 4. Pre-Bid Meeting 03.12.2020 (12.00 to 02.00 PM)**
- 5. Last date to submit Proposal (Online) 05.12.2020 (05:30PM)**
- 6. Online Bid Submission 11.12.2020 (05:30PM)**
- 7. Physical envelope- A shall reach to this office up to 04:30 PM on or before Date: - 14.12.2020**
- 8. Opening of Technical bid Physical envelope- A 15.12.2020 (11.30 AM)**
- 9. Financial Bid & Technical bid Opening (online) 17.12.2020. (11.30AM)**
- 10. TENDER: - Bioremediation and Scientific Closure of Existing.**

VOLUME I: Request for Proposal (RFP) Document

DISCLAIMER

The information contained in this Request for Proposal (RFP) has been prepared solely to assist prospective Bidders in making their decision of whether or not to submit a bid. The JAGDALPUR Municipal Corporation (herein after referred to as “the JMC” in this Bid Document) does not purport this information to be all-inclusive or to contain all the information that a prospective Bidder may need to consider in order to submit a proposal. The designs, drawings, technical data and any other information provided in this RFP is only indicative and neither the JMC nor its employees, officers nor its consultants will make or will be deemed to have made any current or future presentation, promise or warranty, express or implied as to the accuracy, reliability or completeness of the information contained herein or in any document or information, whether written or oral, made available to a Bidder, whether or not the aforesaid parties know or should have known of any errors or omissions or were responsible for its inclusion in or omission from this RFP.

Neither the JMC or its employees or consultants make any claim or give any assurance as to the accuracy or completeness of the information provided in this RFP Document. Interested parties are advised to carry out their own investigations and analysis of any information contained or referred to here in or made available at any stage in the bidding process in relation to the Project.

This RFP Document is provided for information purposes only and upon the express understanding that such parties will use it only for the purpose set for the above. It does not purport to be all-inclusive or contain all the information about the Projects in relation to which it is being issued.

The information and statements made in this RFP document have been made in good faith. Interested parties should rely on their own judgments in participating in the said Project. Any liability is accordingly expressly disclaimed even if any loss or damage is caused by any act or omission on part of the aforesaid, whether negligent or otherwise.

This RFP Document has not been filed, registered or approved in any jurisdiction. Recipients of this document should inform themselves of and observe any applicable legal requirements.

The JMC makes no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the RFP document.

The JMC reserves the right to modify, suspend, change or supplement this RFP. Any change to the RFP will be notified to all the Bidders to whom the RFP is issued. No part of this RFP and no part of any subsequent correspondence by the JMC, its employees, officers or its consultants shall be taken neither as providing legal, financial or other advice nor as establishing a contractor contractual obligation. Contractual obligations would

Arise only if and when definitive agreements have been approved and executed by the appropriate Parties having the JMC to enter into and approve such agreements. The JMC reserves the right to reject all or any of the Bids submitted in response to this RFP at any stage without assigning any reasons whatsoever.

Bidders are responsible for all costs incurred by them when evaluating and responding to this document and any negotiation costs incurred by the recipient thereafter. The JMC may in its sole discretion proceed in the manner it deems appropriate which may include deviation from its expected evaluation process, the waiver of any requirements, and the request for additional information. Unsuccessful Bidders will have no claim whatsoever against the JMC nor its employees, officers nor its consultants.

I. Key Dates

Event	Date	Time	Web-Link/Venue
Start of Bid Download	25.11.2020	05:30PM	http://eproc.cgstate.gov.in
Site Visit and submission of QAP accordingly	01.12.2020	12:00AM	At Site Trenching Ground KANGOLI Dumping
Pre-Bid Meeting	03.12.2020	12:00 to 02.00 PM	JAGDALPUR Municipal Corporation, JAGDALPUR
Last Date of Online Bid Submission	11.12.2020	05:30PM	Online Submission (Technical and Financial Bid)
Physical Bid Submission	14.12.2020	04:30PM	Physical Submission (Only EMD proof, Bid processing Fee proof and affidavit): Commissioner, the JAGDALPUR Municipal Corporation, JAGDALPUR, Chhattisgarh
Technical Bid Opening Physical envelope- A	15.12.2020	11.30AM	JAGDALPUR Municipal Corporation
Financial Bid & Technical bid Opening (online)	17.12.2020	11.30AM	JAGDALPUR Municipal Corporation

II. Bid Data Sheet

A.

Tender Notice Number	
Date of Issue	25.11.2020 Only Online
Tender Inviting JMC	The JAGDALPUR Municipal Corporation
Web-link	http://eproc.cgstate.gov.in

B.

Particulars	Data
Bid Processing fee	Rs. 15000/(Fifteen Thousand) Only DD in favour of the Commissioner, Municipal Corporation, Jagdalpur (Non Refendable)
EMD	Rs. 2.00 Lakh (Two Lakh) Only TDR/FDR in favour of the Commissioner, Municipal Corporation, Jagdalpur
Bid Validity Period	06 Months from the due date of Bidding
Eligible Bidder for Bidding	eligible companies /firms/consortiums/joint ventures sound in both financial and technical capability for the following Work

Method of Bid Submission	Online Submission- Technical & Financial Bid
Performance Security	5 % of Contract Value

- III. All the correspondence should be in written, the written correspondence may be sent through email, fax or letter. All the communication and the bid submission should be addressed to the undersigned on the address below:

To,

The Commissioner,

JAGDALPUR Municipal Corporation, JAGDALPUR

Phone No.: 07782-221055

E-mail: jagdalpurnagarnigam@yahoo.com

OFFICE OF THE MUNICIPAL CORPORATION, JAGDALPUR

Preface

Planning of Bio-mining Process for dump site reclamation/bio-mining is the most preferred option for existing dumping site at Jagdalpur. The existing dump site is located at Kangoli, the total area of dumping ground is more than 6 acres as per survey made by DRA consultant Ltd. At the dumping site the waste is scattered, the total area of dumping site with 6.4 acre land and height of 1.5 m.

The existing total waste quantity at the dump site is estimated to be 28000 Ton for additional 12 month total waste that shall be generated is estimated to be 44000 Ton. The present bio-mining/dump reclamation is design for total 72 Tons @1.2/cubic meter total in cubical content 60000 Cubic meter.

Here we would like to suggest that day to day coming waste to be stopped at dump site and shall be taken to SLRM center constructed at dump site for segregation process.

Bio-mining process for 60000 Cubic meter is design for month that is 150 working day with 12 hour of working shift. The calculation source that if this bio-mining to be completed in period of 6 month than processing target should be 400 cubic meter per day.

Hence the process of 400 cubic meter of wastes 75 sqm. Land will be cleared and therefore in 150 working days total land of 11280 sqm. Can be cleared of which more than the area of dump material.

Disposal site



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1. Introduction

1.1 Background

The Government of Chhattisgarh proposes to strengthen the entire MSWM system in all the Urban Local Bodies (ULBs) in Chhattisgarh so as to comply with the Solid Waste Management Rules 2016, Guidelines for Disposal of Legacy waste (Old Municipal Solid Waste) Central Pollution Control Board, Service Level Benchmarks of the Government of India (GoI) & achieve the objectives of Swachh Bharat Mission (SBM) by 2019.

1.2 Project Objective

To fulfill the objectives of the Swachh Chhattisgarh Mission, the JAGDALPUR Municipal Corporations, through this proposed project aims at reclamation of land from the existing dumpsite, Trenching Ground KANGOLI through the process of Bio-mining.

1.3 Current scenario

Sr. No.	Description	Details
1.	Population (Census 2011)	125463
2.	Dumpsite Site Location	Trenching Ground Kangoli, JAGDALPUR
3.	Approximate Total Old Waste at Site (Legacy Waste) to be processed for biomining	60000 cubic Meters
4.	Total Area of the Site	6.4 Acre

1.4 Current Tender

The JAGDALPUR Municipal Corporation (herein after referred to as “the JMC” in this Bid Document) is seeking proposals from eligible Bidders to undertake the works required for Scientific dumpsite reclamation through Bio-mining of legacy waste/un-processed municipal solid waste by excavation of complete mixed MSW from the dumpsite which underwent biological and physical degradation, resource recovery by using suitable mechanical sieving machine or any other suitable equipment/method, segregating, sorting, retrieving recoverable materials, storing, selling, diverting for recycling, dumpsite land reclamation, development of disposal facility and scientific residual Solid Waste disposal in disposal facility dumpsite during contract period and hand back of reclaimed land and disposal facility to the JAGDALPUR Municipal Corporation at the end of contract period.

1.5 Objective of the Bid Document

This Bid Document is structured to provide prospective Bidders with sufficient information on which to prepare a Proposal and is organized in the following manner:

Volume I: Request for Proposal

Instruction to Bidders

Preparation of Bid

Submission of Bid

Bid Opening and Evaluation

Scope of Project

Payment Schedule

Miscellaneous

Volume II: Draft Contract Agreement

Volume III: Conditions of Contract

Volume I: Request for Proposal

2 Instruction to Bidder

2.1 Scope of Bid

2.1.1 The JMC invites bids for the execution of works (here in after referred to as "the Works") detailed in this Bid Document.

2.1.2 The successful bidder will be expected to complete the works by the intended completion Date specified the bid data sheet of this RFP document.

2.2 Eligible Bidder

2.2.1 A Bidder may be a natural person, private entity, government- owned entity or any combination of them with a formal intent to enter into an agreement or under an existing agreement to form a Consortium/Joint Venture. For an applicant / bidder can submit the Bid either individually or form a consortium. In case the Bidder is a Consortium/Joint Venture, it shall, comply with the following additional requirements:

2.2.1.1 The Tendered shall fill/upload the Bids online and the Bid Hashes of three envelopes shall be digitally signed and submitted online as per mentioned key dates. The Bidders shall also have to submit Bids online (decrypt the bids using their Digital Certificate and encrypt the bids) as per mentioned key dates. There shall be three separate Online envelopes as under:-

ENVELOPE - A

The first online envelope shall contain the Earnest Money of rupees 2,00,000/- (Two Lakhs Only) through **DD/TDR/ FDR in favour of the Commissioner, Municipal Corporation, Jagdalpur** and Bid Processing Fees Rs. 15000/- only for D.D. in Favor of Commissioner, Municipal Corporation, JAGDALPUR. **(Non Refendable)**

ENVELOPE - B

The Second Online envelope shall contain terms and conditions and all the technical details and specifications of the proposed work. The Scanned copy of terms and conditions, along with technical specifications and drawings etc. should be submitted online in Envelope "B". This envelope shall be submitted also along with envelope "A". The Envelope B shall also contain

2.2.2 The number of members (incorporated under The Companies Act, 2013) in a Consortium/ Joint Venture would be limited to 2(two) members. The Members of the Consortium/Joint Venture shall nominate one member as the lead member ("the Lead Member"), the member other than the lead member shall be termed as "the technical member". "The lead member" and "the technical member" are to be defined and detailed in the Form-2 of the Technical Bid submission forms provided in this RFP document. It is clarified that the lead member of the consortium would be regarded as be in responsible for the due implementation of this Project. In computing the Technical Capacity and Financial Capacity of the Bidder/ Consortium Member/Joint Venture, the Technical Capacity and Financial Capacity of their respective Associates shall also be considered.

2.2.3 Combined Technical capacity of all Consortium/Joint Venture members ("the Lead Member" and "the Technical Member") shall be considered towards qualifying and evaluation criteria, however the financial strength of only the Lead member shall be considered towards qualifying and evaluation of Financial Capacity as prescribed in the clause 2.3.2 of this RFP document.

- 2.2.4 A consortium / Joint Venture shall have registered agreement where in roles and responsibilities of Consortium members / joint venture parties clearly mentioned. The aforesaid mentioned agreement should be submitted along with the Bid in the format of Form 5 of technical bid submission forms provided in the RFP document.
- 2.2.5 The Consortium/Joint Venture members shall nominate a person as the Authorize signatory from the Lead Member of the Consortium / Joint Venture who shall be authorized to sign their bid sub mission, the contract agree mentor any correspondence with the JMC. A power of Attorney in the name of Authorized Signatory has to be furnished by the Consortium/Joint Venture bidder along with their technical proposal. The Power of Attorney shall be as per the form at providing in Form 4 of this RFP document.

2.3 Pre-Qualification Criteria

2.3.1 Technical Capacity

For demonstrating technical capacity (“the technical capacity”), the bidder has to comply with both of the following conditions (i) and (ii):

(i) Successfully handled, during preceding three financial years prior to the due date of this Bid submission, projects relating to:

(a) Operation of Scientific Dumpsite Reclamation/ Bio-mining

Or,

(b) Operation of Municipal Solid Waste (MSW) processes/ treatment facility using Segregation and composting of MSW.

(ii) Should have handled, during preceding three financial years prior to the due date of this bid submission, projects as mentioned in sub-clause (i) above, at least:

(a) One Project of Minimum 50% of the quantity of waste mentioned in the sr. no. 3 of

Clause no. 1.3(3) of this tender document

Or

(b) Two Project of Minimum 30% of the quantity of waste mentioned in the sr. no. 3 of

Clause no. 1.3(3) of this tender document

Note:

In case an eligible project for accessing “the technical capacity” has been jointly executed by the Bidder (as part of a consortium), then the entity claiming such eligibility should satisfy both of below conditions:

(a) Have held minimum 51% share in the project for which the experience is being claimed the claiming entity shall produce proof of percentage shareholding in the project for which experience is being claimed.

(b) The project shall be qualified as 'eligible project' for "the technical capacity only if the percentage shareholding in the project multiplied with the total project capacity is satisfying the criteria laid down in clause 2.3.1 above.

□ The eligible projects claiming "the Technical Capacity" should have been executed for any Local Body/ any Government / Semi-Government Organizations / Public Sector Undertakings in India with direct contract with them.

2.3.2 Financial Capacity

For demonstrating the financial capacity ("the Financial Capacity"), the bidder has to comply with each of the following conditions:

(i) Minimum average turnover of INR 1.29 Cr. Approx (60% of total project cost) in the preceding three financial years from the due date of submission of this bid;

(ii) Shall have a positive net worth of minimum INR 32.14 Lakh Approx. (15% of total project cost) in the preceding three financial years from the due date of submission of this bid;

(iii) Shall have availability of Liquid assets and/or availability of credit facilities of no less than INR 1.50 Cr. Approx (70% of total project cost) at the time of submission of this bid. The bidder shall furnish Certificate for availability of Liquid asset duly certified from its statutory auditor/ certificates from banks for meeting the fund requirement to this effect.

Note:

□ For the purpose of this RFP, turnover ("the turnover") shall mean the average of annual revenues from execution of the projects as listed in Clause 2.3.1 (i) during the preceding three financial years from the due date of submission of this bid. This shall not include capital grants / capital subsidies / donations / salaries / dividend / bonus / commission and interest income.

2.3.3 Other Pre-Qualification Criteria

(i) The bidder should be technically capable enough to ensure all environmental hazard Mitigation measures and demonstrate expertise in EHS – Environment, health and safety aspects and impacts that need to be addressed at dumpsite while adopting the works. The bidder shall furnish a write up in the format as provided in the Form 10 of this RFP document demonstrating their proposal to follow the measures for the Protection of Environment, Health and Safety while executing the Works.

(ii) An Agency/ NGO/ Firm must not have been blacklisted or placed under any restriction by any Ministry or Department of the Government of India or by a State Government (or its agency).

2.4 Essential Pre-Qualification Documents

Bidder to enclose all of the following documents in support of his pre-qualification for bidding:

(i) Incorporation certificate of the company/Proof of Company registration document/MoA;

(ii) Copy of Agreement with the concerned client;

(iii) Certificate(s) (completion or Currently operating, as the case may be) from its concerned client(s) in support of “the technical capacity” clearly stating the capacity of project (or, quantity processed till date in case of currently running project) including performance of the firm for the work completed during the contract period of the project in respect of the projects whose experience is claimed.

- Performance certificate should be issued from the concerned client(s) (Certificate issued by the officer of rank not below then Executive Engineer/ Project Manager or equivalent) shall only be considered.
- In case a particular work/ contract has been jointly executed by the Bidder (as part of a consortium/Joint Venture), it should further support its claim for the share in work done for that particular work/ contract by producing a certificate from its client;

(iv) Audited balance sheet of preceding three financial years from the due date of submission of this bid and Certificate(s) from its Statutory Auditors in support of “the Financial Capacity”

- Certificate specifying the average Turnover of the Bidder (Individual bidder/Lead Member of Consortium/Joint Venture) in preceding three financial years from the due date of submission of this bid, and also specifying the methodology adopted for calculating such Turnover conforming to the provisions of this Clause.
- Certificate(s) specifying the net worth of the Bidder (Individual bidder/Lead Member of Consortium/Joint Venture), at the close of the preceding financial year from the due date of submission of this bid, and also specifying that the methodology adopted for calculating such net worth.

(v) Certificates from bank(s) for the arrangement of credit/fund for Project development as per the format provided in Form 7 of this RFP document.

(vi) Copy of the latest Service Return filed/ Copy of PAN Card;

(vii) GSTIN number;

2.5 One bid per Bidder

A Bidder is eligible to submit only one Bid for the Project in entire bidding process either individually or as a member of any one Consortium. Applicant/Bidder shall not be entitled to submit another bid either individually or as a member of any other Consortium, as the case may be.

2.6 Cost of Bidding

The Bidders shall be responsible for all the costs associated with the preparation of their Bids and their participation in the Bidding Process. The JMC will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

2.7 Site Visit and verification of Information

- 2.7.1 Prior to submitting the Proposal, the Bidders are advised to visit and examine the project site and its surroundings, obtain and ascertain for themselves all technical data, and other information necessary for preparing their Proposal (bid) including carrying out necessary technical surveys, field investigations, assets condition assessment etc. At its own cost and risk. Bidders are encouraged to submit their respective Bids after visiting the Project site/area to ascertain the ground situation, coverage, quality of assets or any other matter considered relevant by them. The Bidders shall be deemed to have full knowledge of the site conditions, whether physically inspected or not, if Bidder submits a Proposal for this project.
- 2.7.2 For the above purpose, the Bidders may approach the JMC for assistance during any site visit. The Bidders shall be responsible for all arrangements and shall release and indemnify the JMC and/or any of its agencies/consultants/advisors from and against all liability in respect hereof and shall be solely responsible for any personal injury, loss of or damage to property or any other loss, damage, costs or expenses, however caused, which, but for the exercise of such permission, would not have arisen due to this RFP.
- 2.7.3 It shall be deemed that by submitting a Bid, the Bidder has:
- (i) Made a complete and careful examination of the Bidding Documents;
 - (ii) Received all relevant information;
 - (iii) Acknowledged and accepted the risk of inadequacy, error or mistake in the information provided in the Bidding Documents or furnished by the JMC and shall not be a basis for any claim for compensation, damages, extension of time of performance of its obligations, loss or profit etc. from the JMC, or a ground for termination of the Contract Agreement;
 - (iv) Satisfied itself about all matters, things and information necessary and required for submitting an informed Bid, execution of the Project in accordance with the Bidding Documents and performance of all of its obligations there under.

2.8 Pre-Bid Meeting

- 2.8.1 The bidders or their official representative are invited to attend a pre-bid meeting. The Purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. The date, time and address of the Pre-bid meeting shall be as specified in the bid data sheet.
- 2.8.2 Bidders requiring any clarification on the bidding documents or questions on any matter that may be raised at that stage, may send their queries in written, addressed to contact person as mentioned in the Bid Data Sheet, latest by one day before the pre-bid meeting date mentioned in the bid data sheet. The responses of the JMC will be uploaded only on the Website <http://eproc.cgstate.gov.in> and shall not be communicated separately to the bidders.
- 2.8.3 The JMC shall endeavor to respond to the questions raised or clarifications sought by the Bidders. However, the JMC reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the JMC to respond to any question or to provide any clarification which will have material adverse effect on the bidding outcome.
- 2.8.4 The JMC may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Bidders. All clarifications and interpretations issued by the JMC shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by JMC or its employees or representatives shall not in any way or manner be binding on the JMC.

2.9 Amendment in the Bidding Document

- 2.9.1 At any time prior to the deadline for submission of proposals, the JMC may amend the RFP documents, including any contractual document, by issuing an Addendum.
- 2.9.2 Any Addendum thus issued shall be part of the RFP documents and shall be published on the Website <http://eproc.cgstate.gov.in> The JMC may communicate in writing by mail or by fax to all short listed Bidders to whom the RFP documents are issued. The JMC bears no obligation for any bidder not receiving the information of the addendum issued to this RFP for any reason whatsoever

2.10 Conflict of Interest

- 2.10.1 A Bidder shall not have the conflict of interest (the “Conflict of Interest”) that affects the Bidding Process. Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the JMC shall forfeit and appropriate the Bid Security or Performance Security, as the case may be. Without limiting the generality of the above, a Bidder shall be considered to have a ‘conflict of interest’ that affects the ‘Bidding Process’, if:

- (i) Such Bidder (or any constituent thereof) and any other Bidder (or any constituent thereof) have common controlling shareholders or other ownership interest;

Or;

- (ii) A constituent of such Bidder is also a constituent of another Bidder;

Or;

(iii) Such Bidder receives or has received any direct or indirect subsidy from any other Bidder, or has provided any such subsidy to any other Bidder;

Or;

(iv) Such Bidder has the same legal representative for purposes of this Bid as any other Bidder;

Or;

(v) Such Bidder has a relationship with another Bidder, directly or through common third parties, that puts them in a position to have access to each other's information about, or to influence the Bid of either or each of the other Bidder.

2.10.2 A Bidder shall be liable for disqualification and forfeiture of Bid Security or Performance Security and termination of contract as the case may be, if a conflict of interest on part of Bidder is discovered by the JMC during the Bidding Process or subsequent to the (i) during the bidding process, or (ii) issue of letter of award (LOI) or (iii) execution of the Contract Agreement.

3 Preparation of Bids

3.1 Procedure for Participation in e-Tendering

3.1.1 Registration of Bidders on e-Tendering System

All the bidders have to register on the Website <http://eproc.cgstate.gov.in> User-id/contractor- id and password will be provided to the bidders on their registered e-mail id after completing the registration process. After signing-in through the user-id/contractor-id the bidder can download the bidding document and participate in further bidding process. For more details on the e- tendering procedure the bidders may refer the information provide on the Website <http://eproc.cgstate.gov.in>

Digital Certificate

The bids submitted online should be signed electronically with Digital Certificate to establish the identity of the bidder submitting the bid online. For more details on the process of getting digital certificate and signing the bid document through digital certificate the bidders are advised to refer the information provided on the Website <http://www.nagarnigamjagdapur.in>

3.1.2 Key Dates

The bidders are strictly advised to follow the time schedule (Key dates) of the bid of their side for tasks and responsibilities to participate in the bid, as all the stages of each bid are locked before the start time and date and after the end time and date for the relevant stage if the bid as set by the JMC

3.1.3 Preparation and Submission of Bids

The bidders have to prepare their bid online, encrypt their bid data in the Bid forms and submit Bid of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates provided in this RFP document dafter singing of the same by the Digital Signature of their authorized representatives.

Note:

- (i) Bidders are requested to visit our e-tendering website regularly for any clarifications and/or due date extension or corrigendum.
- (ii) Bidder must positively complete online e-tendering procedure at Website <http://eproc.cgstate.gov.in>
- (iii) The JMC shall not be responsible in any way for delay/difficulties/ inaccessibility of the downloading facility from the website for any reason whatsoever.
- (iv) In case, due date for submission & opening of tender happens to be a holiday, the due date shall be shifted to the next working day for which no prior intimation will be given.
- (v) The JMC reserves the right for extension of due date of opening of technical bid.

3.2 Bid Validity Period

The bids shall remain valid for a period 4 months from the closing of bid date. The validity of the bid can be extended by mutual consent in writing.

3.3 Bid Processing Fees

The Bid Document shall be available for download to concerned eligible bidders immediately after online release of the bids and up to scheduled time and date as set in the key dates. The bid document can be downloaded free of cost, however, the bidders have to pay Bid processing fees (**Non Refendable**), of the amount as mentioned in the bid data sheet, at the time of their online bid submission. The payment for the cost of bid processing shall be made Demand Draft from Nationalized or scheduled bank in favour of the Commissioner, Municipal Corporation, Jagdalpur as per the instruction provided on the website.

3.4 Earnest Money Deposit

- 3.4.1 The Bidder shall furnish, as part of his Bid, an Earnest Money Deposit (EMD) of the amount as mentioned in bid data sheet of this RFP document. The EMD must be submitted in the form of FDR/ TDR from Nationalized or scheduled bank in favor of Commissioner Municipal Corporation, Jagdalpur.
- 3.4.2 No interest shall be payable on the EMD. The Bidder shall bear the cost relating to providing its EMD.
- 3.4.3 Any Bid not accompanied by the EMD shall be rejected by the JMC as being a non-responsive Bid.
- 3.4.4 The EMD of unsuccessful Bidders will be returned within 30 days of the date of finalization of successful Bidder or signing of the contract agreement with the successful bidder whichever is later. If the Bid is cancelled for any reason whatsoever, the EMD shall be returned to all the bidders within 30 days from the date of such cancellation.

3.4.5 The EMD of the successful Bidder will be retained by the JMC and returned after 15 days of signing of contract agreement and furnishing the performance guarantee in the form of FDR from any nationalized bank by the successful bidder. The successful bidder shall ensure that its EMD remains valid during Such period.

3.4.6 The EMD will be forfeited if:

- (i) Any bidder withdraws its bid during the validity period of the Bid;
- (ii) The successful Bidder fails to sign contract agreement or submit performance guarantee, as the case may be.
- (iii) The JMC finds out that the bidder has involved in corrupt and fraudulent practice or has given any material mis-representation in its bid knowingly or unknowingly
- (iv) Any other reason thereof mentioned in this bid document.
- (v) The Bidders fails to comply with the Bid process

3.5 Technical Proposal

3.5.1 The Technical Proposal shall comprise of the following documents

- (i) Essential pre-Qualification Documents as specified in the clause 2.4
- (ii) Technical Bid
 - a) Form 1: Letter Comprising the Bid cum undertaking
 - b) Form 2: Format for Description of Bidder
 - c) Form 3: Power of Attorney for Signing of Bid
 - d) Form 4: Power of Attorney for Lead Member of Consortium
 - e) Form 5: Format for Consortium/Joint Venture Agreement
 - f) Form 6: Form for Financial Pre-Qualification
 - g) Form 7: Format for Banker's Certificate
 - h) Form 8: Format for summary of Technical Pre-Qualification
 - i) Form 8(A): Details of Projects eligible for Technical Pre-Qualification
 - j) Form 9 (A): Format for Providing Details of Machinery to be Deployed for the Project

- k) Form 9 (B): Details of Key Personnel to be deployed for the Project.
- l) Form 10: Format for Providing Environment, Health and Safety Management Plan

3.5.2. All the documents/ information enclosed with the technical proposals should be self-attested and certified by the Bidder. The Bidder shall be liable for forfeiture of his EMD, if any document/ information is found false/fake/untrue before acceptance of Bid. If it is found after acceptance of the Bid, the JMC may at his discretion forfeit his performance security/guarantee, security deposit, enlistment deposit and take any other suitable action.

3.6 Financial Proposal

- 3.6.1 The bidder shall have to quote rates in format of Financial Bid submission provided on the e-tender website. A format of the financial bid has been provided in this RFP document.
- 3.6.2 The price quoted by the bidder shall be entirely in Indian currency (INR).
- 3.6.3 The Amount in the Financial Proposal shall be quoted in figures as well as in words. If any difference in figures and words found, lower of the two shall be taken as valid and correct.
- 3.6.4 The bidder shall have to quote rates inclusive of GST, all duties, taxes and other levies.
- 3.6.5 The rates and prices quoted by the bidder shall be fixed for the duration of the Contract and shall not be subject to any adjustments on any account.

3.7 Documents Comprising the Bid

The Bid submitted by the bidder shall comprise of the following parts:

- A. Bid processing fees and EMD as per the details and instructions provided in clause 3.3 & 3.4 respectively
- B. Technical Proposal as per the details and instructions provided in clause 3.5
- C. Financial Proposal as per the details and instructions provided in clause 3.6

3.8 Language of Bid

3.8.1. The bid and all related correspondence and documents shall be written in the English Language. Supporting documents and printed literature furnished by the Eligible Bidder.

With the Proposal may be in any other language provided that they are accompanied by an appropriate translation into English. Supporting materials that are not translated into English shall not be considered. For the purpose of interpretation and evaluation of the Proposal, the English language translation shall prevail.

4 Submission of Bids

4.1 Online submission of Bids

The bidders have to submit their respective bids online, as per the instructions provided on the website Web site <http://eproc.cgstate.gov.in> for online submission of bids. The bidders shall submit their Bids dully completed in all respect on or before the due date of bid submission after signing of the same by the Digital Signature of their authorized representatives. The Bid submitted online by the Bidder shall be in the following part:

Part 1: This shall be known as “Envelop-A- Bid processing fees & Earnest Money Deposit” and shall contain the documents as mentioned in clause 3.7 (A)

Part 2: This shall be Known as “Envelop B- the Technical Proposal” and shall contain the documents as specified in clause 3.7 (B)

Part 3: This shall be Known as “Envelop C- the Financial Proposal” and shall contain the Price Offer of the Bidder as mentioned in clause 3.7 (C).

4.2 Bid Due Date

4.2.1 The due date and time of the bid submission is as mentioned in the Bid data sheet.

4.2.2 The Online Bid and the physical bid should be submitted on or before the due date of bid submission.

4.2.3 The JMC may, in its sole discretion, extend the Bid Due Date by issuing an Addendum

In accordance with clause 2.9 uniformly for all Bidders and publish the Addendum on the website of Website <http://eproc.cgstate.gov.in>

4.3 Withdrawal, Substitution and Modification of Bids

Bidders can withdraw and modify their respective online submitted bids till the end of the due date of bid submission. The Bidder will not be able to modify a Bid after the due date of submission of these Bids. The bid for which withdrawal request has been received by the JMC after the due date of bidding shall be declined from the bidding process. In the event of withdrawal of a Bid by the Bidder, after the due date of its submission, the JMC reserves the right to forfeit the EMD of the bidder at its sole discretion

5 Bid Opening and Evaluation

5.1 Procedure for Bid opening and Evaluation

5.1.1 The JMC designated officer open the Bids online on the Bid Opening Date and Time as specified in the Bid Data Sheet.

5.1.2 The JMC designated officer will subsequently examine and evaluate the Bids in accordance with the provisions set out in this section.

- 5.1.3 Proposals shall first be checked for responsiveness with the requirements of the RFP and only those Proposals which are found to be responsive would be further evaluated for qualification in accordance with the criteria set out in this RFP.
- 5.1.4 The Technical proposal shall be evaluated next based on the criteria set out in this RFP documents. The Financial bids of only those bidders who qualify the technical qualification shall be opened.
- 5.1.5 All technically qualified bidders will be notified for opening of the Financial Bids.

5.2 Clarifications

- 5.2.1 To facilitate evaluation of Proposals the JMC may, at its sole discretion, seek clarifications from any Bidder during the evaluation period. Such clarification(s) shall be provided within the time specified by the JMC for this purpose. Any request for clarification(s) and all clarification(s) shall be in writing. If a Bidder does not provide clarifications sought within the prescribed time, its Proposal shall be liable to be rejected. In case the Proposal is not rejected, the JMC may proceed to evaluate the Proposal by construing the particulars requiring clarification to the best of its understanding, and the Bidder shall be barred from subsequently questioning such interpretation of the JMC.
- 5.2.2 Bidders are advised that the evaluation of Proposals will be entirely at the discretion of the JMC. Bidders will be deemed to have understood and agreed that no explanation or justification on any aspect of the Bidding Process or selection will be given.
- 5.2.3 Any information contained in the Proposal shall not in any way be construed as binding on the JMC, its agents, successors or assigns, but shall be binding against the Bidder if any Project is subsequently awarded to it under the Bidding Process on the basis of such information.
- 5.2.4 The JMC reserves the right not to proceed with the Bidding Process at any time without notice or liability and to reject any Proposal without assigning any reasons.

5.3 Confidentiality

- 5.3.1 The JMC shall ensure that the rules for the bidding proceedings for the Project are applied in a non-discriminatory, transparent and objective manner. The JMC shall not provide to any Bidder information with regard to the Project or the bidding proceedings, which may have the effect of restricting competition.
- 5.3.2 Information relating to the examination, clarification, evaluation, and recommendation for the short-listed pre-qualified Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the JMC in relation to or matters arising out of, or concerning the Bidding Process. The JMC will treat all information, submitted as part of Proposal, in confidence and will require all those who have access to such material to treat the same in confidence. The JMC may not divulge any such information unless it

is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the JMC.

5.3.3 Any effort by a Bidder to influence JMC evaluation of Bids or award decisions will result in the rejection of the Bidder's Bid.

5.4 Proposal Evaluation

5.4.1 Envelope 'A' shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelope 'A' does not contain all requisite documents, such bid shall be treated as non-responsive, and **Envelope "B" and "C"** of such bid shall not be opened.

5.4.2 In the next step of evaluation, the Envelope 'B' shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelope 'B' of the Bid

5.4.3 A detailed Technical Evaluation of the responsive bids shall be carried out and the bidder shall be considered technically qualified if:

- (i) The online bid has been submitted in the manner as specified in clause 4.1.
- (ii) The technical proposal contains all the documents as specified in clause 3.7 (B).
- (iii) Physical bid had been received by the JMC within the specified time and it contains all the documents in original and has been submitted in the manner as specified in clause 4.2.
- (iv) It is fulfilling the pre- Qualification Criteria as specified in clause 2.3 and furnished all the necessary support documents in support of such qualification.
- (v) It has provided all the other information and documents as directed in this RFP document corresponding to the technical qualification of the bidder.

5.4.4 **Envelope 'C'** (Financial Proposal) of bidders who are not qualified in Technical Bid (**Envelope 'B'**) shall not be opened.

5.4.5 **Envelope 'C'** (Financial Proposal) of the technically qualified bidders shall be opened online at the date time & notified. The bidder shall have freedom to witness opening of the **Envelope 'C'**.

5.4.6 After opening **Envelope 'C'** the Financial proposal shall be checked for responsiveness. A Financial Proposal shall be responsive if it has been submitted in the manner as specified in clause 3.6. If the financial proposal of a bidder is non-responsive, it shall be declined from the bidding process.

5.4.7 All the responsive Financial Bids would then be ranked in ascending order of the quoted financial offer, with the Bidder quoting the lowest financial offer shall be ranked first as "L1" and the Bidder quoting the second lowest financial offer shall be ranked second as "L2" and so on.

5.5 Successful Bidder

5.5.1 The Bidder ranked first (the "L1") in accordance with the above procedure would be declared as the successful Bidder.

5.5.2 In the event that two or more Bidder's Financial Bids are exactly the same, then the JMC reserves the right either to:

(i) The L-1 bidder shall be decided either by obtaining spontaneous online bid from all the bidder who have quoted the same L-1 rate, which of course must be lower than their original quoted rates

Or;

(ii) Take any such measure as may be deemed fit in its sole discretion, including annulment of the bidding process.

5.5.3 The JMC will notify other Bidders that their Proposals have not been accepted and their EMD will be returned as promptly as possible as per provision set out in clause 3.4 of this RFP document

5.6 Award of Contract

5.6.1 The JMC shall notify the successful bidder (the "L1") as determined in clause 5.5 above, by issuing a 'Letter of Intimation' (LOI) that his bid has been accepted.

5.6.2 The successful Bidder shall acknowledge his acceptance of the LOI issued by the JMC within 7 (seven) days as evidenced by signing and sending a copy of the LOI issued. In the event the duplicate copy of the LOI duly signed by the Authorized signatory of the Selected Bidder is not received within the stipulated date, the JMC may, unless it consents to extension of time for submission thereof, appropriate the EMD of such Bidder on account of failure of the Selected Bidder to acknowledge the LOI.

5.7 Performance Security

5.7.1 Prior to the signing of the contract agreement, the successful Bidder shall have to furnish Performance Security to the JMC in the form of bank guarantee ("the Performance Bank Guarantee" (PBG) or F.D.R in the name of commissioner JMC issued by a nationalized/scheduled bank located in India or a reputable bank located abroad having corresponding bank in India, in the format given in Form 12, for an amount equivalent to 5% of the Contract value. The performance security of a joint venture shall be in the name of the joint venture.

5.7.2 Failure of the successful bidder to comply with the requirements of clause 5.7.1 above shall constitute a breach of contract, cause for annulment of the award, forfeiture of the EMD, and any such other remedy the JMC may take under the contract, and the JMC may resort to awarding the contract to the next ranked bidder.

5.8 Signing of Contract Agreement

5.8.1 The successful bidder shall have to furnish the Performance security as directed in clause 5.7 above and sign the contract agreement within 21 days of issue of LOI.

5.8.2 The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the JMC to the contractor for commencement of work.

- 5.8.3 In the event of failure of the successful bidder to submit Performance Security and or sign the Contract Agreement, his EMD shall stand forfeited without prejudice to the right of the JMC for taking action against the bidder.

5.9 Fraud and Corrupt Practices

5.9.1 The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process and subsequent to the issue of the LOI and during the subsistence of the Contract Agreement. Notwithstanding anything to the contrary contained herein, or in the LOI or the Contract Agreement, the JMC shall reject a Bid, withdraw the LOI, or terminate the Contract Agreement, as the case may be, without being liable in any manner whatsoever to the Bidder or Contractor, as the case may be, if it determines that the Bidder or Contract, as the case may be, has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process. In such an event, the JMC shall forfeit and appropriate the EMD or Performance Security, as the case may be, is found by the JMC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

5.9.2 For the purposes of Clause 5.9.1, the following terms shall have the meaning hereinafter respectively assigned to them:

(i) **Corrupt Practice** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the JMC who is or has been associated in any manner, directly or indirectly with the Bidding Process or the LOI or has dealt with matters concerning the Contract Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the JMC, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOI or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOI or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the JMC in relation to any matter concerning the Project;

(ii) **Fraudulent practice** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

(iii) **Coercive practice** means impairing or harming or threatening to impair or harm, directly or indirectly any person or property to influence any person's participation or action in the Bidding Process;

(iv) **Undesirable Practice** means (i) establishing contact with any person connected with or employed or engaged by the JMC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest;

And;

(v) **Restrictive practice** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

6 Scope of Work

The current project intends to undertake the works required for Dumpsite Land Reclamation through Bio-mining of old Dumped Municipal Solid Waste/Legacy Waste, resource recovery and Scientific disposal of residual solid waste as per SWM rule 2016 and guideline for Disposal of Legacy Waste (Old Municipal Solid Waste) Central Pollution Control Board under the JAGDALPUR Municipal Corporation, JAGDALPUR. The contract shall be awarded to the successful bidder (“the contractor”) for a period of 06 Months reckoned from the date of signing of contract agreement or the date of issue of Consent to Establish (CTE) to the project, whichever is later. The JMC shall appoint an Engineer & SWM Expert (the “Engineer-in-charge”) for overall supervision, monitoring and certification of the works executed by the contractor. The brief scope of work to be carried out by the selected contractor during the execution of the intended project includes, but not limited to, the following component:

(i) The project information and Site details has been provided in RFP document.

(ii) The works shall be carried out by the contractor as per the specifications provided in scope of works provided in this section.

(iii) The contractor shall carryout Total Station Survey of complete project site including area earmarked in which Bio-mining is to be done. Total Station Survey shall be certified by the Engineer-in-charge. The survey shall be done at the time of possession of the site as well as at the completion of each milestone of physical progress of land reclamation at the site. The survey report shall be submitted along with each running bill. The area earmarked by JMC for Reclamation through Bio-mining shall be considered as 100% area for the scope of work.

(iv) The earmarked land to be reclaimed which is presently covered by old/ legacy waste.

(v) The Contractor shall carry out baseline environmental survey of the site as per EMP and specification.

(vi) The Contractor shall conduct its own due diligence for site investigation, analyzing the characteristics, composition and quantum of the waste at the Project site.

(vii) Dumpsite reclamation will be done by dividing the site into suitable sectors/loops in consultation of the Engineer-in-charge based on the priority of land reclamation.

(viii) Usually the top layer has fresh waste, dust and may have several materials in the active biological state. This layer is to be stabilized through application of Bio-Culture, herbal/biological sanitizers, inoculants or through any suitable scientific method as proposed by the contractor and accepted by the Engineer-in-charge. Odour shall be controlled and minimized through application of deodorant or scientific method.

(ix) Excavating the existing mixed compacted MSW in the land portion allocated/earmarked by the JMC and sieving them by Mechanical sieving machine or any other suitable technology proposed and accepted by the Engineer-in-charge.

(x) The contractor shall deploy sufficient machinery, manpower and required resources to execute the project scope within the project duration. [pls. refer para Page 37 BOQ]

(xi) Provision, installation, operation and maintenance of plant, machineries, infrastructure facilities and amenities for excavation, sieving of the excavated MSW, storing the segregated materials, reuse, marketing, selling, and transporting them from the project site.

(xii) Construction of temporary shed, platform and creation of facilities for handling, separating, segregating, storing and quantifying of the excavated MSW and processing material.

(xiii) Excavating the soil which lost its stability due to MSW dumping with necessary dewatering works in the portion of the land earmarked at the cost of the Contractor.

(xiv) MSW waste brought for segregation and processing from the earmarked land portion shall be quantified (in Cubic meter, based on number of vehicles trips and capacity) after excavation and record of the same shall be maintained by the Contractor and JMC jointly.

(xv) Segregate the excavated MSW in the land portion earmarked into as many kinds and categories as possible of Useful Material such as compost, soil conditioner, recyclables, raw RDF, filler material (Soil, C&D) and Un-useful material such as residual Solid Waste.

(xvi) Packing, storing, stacking, selling, diverting for recycling, marketing and recycling of all Useful Material within thirty days of segregation at the cost of the Contractor, without accumulation in the storage facility at the project site beyond thirty days.

(xvii) Baling, packing, stacking, storing and sale of non-recyclable fraction of high calorific as raw material to RDF producer/ user or sale to waste to energy or co-processing in cement plants or to thermal power plants.

(xviii) Stacking, transporting, spreading and compacting the segregated C&D, Soil and Inert as filler material in low level and depression area within the site and prepare well compacted and clear ground for proposed development at site or disposing such material in the low level area or quarry area designated by the JMC with statutory approval at the cost of the Contractor with proper compliance to the statutory requirements.

(xix) The revenue or the income from the sale of the segregated Useful Material such as reusable and recyclable, Compost, soil conditioner, raw RDF, C&D, Soil or any other by-product materials shall go to the contractor's account. However, before selling the recovered material the Contractor, at its own cost, will conduct a lab testing of such materials from an NABL accredited lab, for the parameters as recommended by the Engineer-in-charge or applicable rules/guidelines, and submit the report of the same to the Engineer-in-charge. The Contractor shall initiate the sale or disposal process of the such material by-products only after the acceptance/approval of the engineer-in-charge.

(xx) The Contractor shall hand over reclaimed land and scientific residual solid waste disposal site to the JMC in a good and acceptable condition as per SWM Rules 2016 & Guidelines for Disposal of Legacy Waste (CPCB).

(xxi) Record of the residual solid waste disposal quantity (in Cubic meter, based on number of vehicles trips and capacity) shall be maintained by the Contractor and the JMC jointly.

(xxii) Carrying out the entire project work in accordance with the Detailed Plan of Action and schedule proposed by Bidder and approved by the JMC at the cost of the Contractor.

(xxiii) Using only covered body vehicles for the transportation of materials at the cost of the Contractor.

(xxiv) Apply method, process, equipment and resources which would reduce the impact of dumpsite reclamation activity in the adjacent areas.

(xxv) Create facilities and make arrangements for controlling/ mitigating the emission, pollution and contamination (Environment impact) including air, water and soil including mitigation for dust, odor and noise pollution at the cost of the Contractor.

(xxvi) Construction of temporary site office, water, power, sanitation facilities and accommodation facilities of workers for the Project as per statutory standards at the cost of the Contractor.

(xxvii) Providing security arrangement for the project site, machineries, equipment etc. at its own cost

(xxviii) Completing the work within the Contract Period

6.1 Detailed BOQ of Proposed Legacy Waste Remediation for Municipal Corporation JAGDALPUR (CG)

Equipment Required	NO. Of Units
Chain mounted Excavator (210)with Driver, fuel oil Lubricant ,grease etc with complete operations and Maintenance	01
Front end loader/bobcat tractor	01
Tyre mounted loader (JCB)	02
Hyva	02
Tractor	04
Cultivator /Plough Tractor	01
Tanker (pump mounted) 4500 litres capacity with 5 HP diesel pump mounted including inlet and outlet arrangement	01
Operations and Maintenance	10,000/-
Manpower	40
Tools and Plant (packaging material and segregation tools etc.)	1
Screening /trammel	1
Vibrator sieve	1
PPE	25
Bailing Unit	1
Chemicals -sanitizers and bio-culture	60000
Weigh machine	1

Fatka Machine	3
CCTV camera - -	1 JOB

7 Payment Schedule

7.1 Payment Mechanism

7.1.1 The JMC will be releasing payment for the work based on the percentage of proposed land to be reclaimed as per the achievement of the milestone mentioned in the table below:

Milestone	Physical Progress	Time of Completion (will change based on quantity/area of legacy waste)	Broad Parameters of Physical Progress	% release of Contract Value
First Milestone	40% of the proposed land to be reclaimed	02 Month	<ul style="list-style-type: none"> 40% of the proposed land to be reclaimed 	30%
Second Milestone	30% of the proposed land to be reclaimed	04 Month	<ul style="list-style-type: none"> Cumulative 70% of the proposed land to be reclaimed 	30%
Third Milestone	25% of the proposed land to be reclaimed	05 Month	<ul style="list-style-type: none"> Cumulative 95% of the proposed land to be reclaimed 	30%
Fourth Milestone	5% of the proposed land to be reclaimed	06 Month	<ul style="list-style-type: none"> Cumulative 100% of the proposed land to be reclaimed 	10%

(Processing fee payment Interval= 30%, 30% & 40 % respectively based on Physical progress as per clause 7.1.1 minus liquidated damage as per clause 7.2 and penalty for non-compliance as per clause 7.3)

7.1.2 The Contractor shall, on completion of the particular Milestone of the work, before the 20th (twentieth) day of the Month or in case the 20th (twentieth) day of a Month is a holiday then

On the following working day of such Month, submit to the JMC a statement (“the Running Bill”) providing the following details:

- (i) Amount of Processing Fee for the completed milestone calculated in accordance with Clause 7.1.1
- (ii) Items of Work Completed at site including photographic evidence of the same
- (iii) Certificate from the Engineer-in-charge certifying the work done and milestone achieved.
- (iv) Details of the employment of Man-hours, Machinery and equipment utilized to achieve the physical progress of that Milestone.

7.1.3 The JMC shall not pay interest on the bill amount, if delay occurs in the release of the payment, for any reason whatsoever.

7.1.4 No advance payment will be done to the bidder

7.1.5 Retention money shall be deducted as per government norms

7.2 Liquidated Damage

7.2.1 In case the work is not completed within the stipulated period of completion of whole or part of work (achievement of milestones specified by JMC) along with all such extensions which are granted to the Contractor for either JMC's default or Force Majeure, the compensation shall be levied on the contractor at the rate of 0.05% of the contract amount per day of delay limited to maximum of 10% of contract amount or without any compensation as decided by the commissioner, JMC recommendation of EE in Charge.

7.2.2 The JMC will deduct the liquidated damages from payments due to the Contractor.

7.2.3 If the liquidated damage attains to a maximum of 10% of the contract amount the JMC may:

- (i) Terminate the contract agreement and forfeit the EMD and the Performance Security.
- (ii) Retain the contractor on depositing the amount equivalent to the liquidity damage of 10% of the contract amount. However, the retention of the contractor on such ground shall not free him from his liabilities for completion of the work or any future imposition of liquidity damages.

7.2.4 The decision of the JMC in this regard shall be final and binding upon both the parties.

7.3 Penalty for Non-Compliance

Sr. No.	Penalty Description	Penalty Amount
1.	Non-Compliance to, SWM Rules 2016 Guideline Legacy waste and Other Environmental Standards notified By regulatory authorities or as specified in the Contract.	Rs.10000/- per Incidence per day till the Compliance of the failure in addition to the Penalties/ Actions imposed by Commissioner Municipal corporation JAGDALPUR.

2.	Non provision of 1. Site Facilities as per specifications	Rs. 5000/- per item per day
3.	Non-compliance of Safety Standards, use of Personal Protective Equipment by the workers	Rs.5000/- per Incidence per day till the compliance of the failure in addition to the Penalties/ Actions imposed by Commissioner Municipal corporation JAGDALPUR.

8 Miscellaneous

The Bidding Process shall be governed by, and construed in accordance with, the laws of India and the Courts at JAGDALPUR (C.G.) shall have exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the Bidding Process. The JMC, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to:

- (i) Suspend and/or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;
- (ii) Consult with any Bidder in order to receive clarification or further information including justification of financial bid submitted;
- (iii) Retain any information and/ or evidence submitted to the JMC by, on behalf of, and/ or in relation to any Bidder; and/ or
- (iv) Independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidder.
- (v) It shall be deemed that by submitting the Bid, the Bidder agrees and releases the JMC, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection herewith and waives any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or future.

RFP for Lumpsum basis for Technical & Financial Bid Submission

Form 1: Letter Comprising the Bid cum undertaking

(On Non-Judicial Stamp of Rs.100)

Date:

To,

Commissioner
Municipal Corporation
JAGDALPUR (C.G.)

, Dear Sir,

Sub: RFP Reference No. _____ dated _____ for Selection of Contractor to execute the work of Bio-mining of old dump site at Trenching Ground Kangoli, JAGDALPUR (C.G.)

With reference to your RFP document dated....., I/we, have examined the Bidding Documents and understood their contents, hereby submit my/our Bid for the aforesaid Project “**Selection of Contractor for execute the work of Bio-mining Disposal and treatments of Legacy waste (dump site Trenching Ground Kangoli, JAGDALPUR**” and state as under:

1. The Bid is unconditional and unqualified.
2. All information provided in the Bid and in the Appendices is true and correct.
3. This statement is made for the express purpose of qualifying as a Bidder for the Project as explained in this RFP document.
4. I/We shall make available to the JMC for any additional information it may find necessary or require to supplement or authenticate the Bid.
5. I/ We acknowledge the right of the JMC to reject our Bid without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
6. We certify that in the last three years, we/ any of the Consortium Members have neither failed to perform on any contract, as evidenced by judicial pronouncement or arbitration award, nor been expelled from any project or contract nor have had any contract terminated for breach on our part.
7. I/We declare that:
 - a. I/ We have examined and have no reservations to the Bidding Documents, including any Addendum issued by the JMC.
 - b. I/ We do not have any conflict of interest in accordance with Clauses 2 . 10 of the RFP document.

c. I/ We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the JMC or any other public sector enterprise or any government, Centre or State; and

d. I/ We here by certify that we have taken steps to ensure that in conformity with the provisions of Clause 5.9 of the RFP, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

8. I/ We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Bid that you may receive nor to invite the Bidders to Bid for the Project, without incurring any liability to Bidders

9. I/We believe that we/our consortium/ proposed consortium satisfy (ies) the pre-qualifying criteria and meet(s) the requirements as specified in the RFP document and am/are qualified to submit this Bid.

10. I/We declare that we/any Member of the Consortium am/are not a Member of any other Consortium submitting a Bid for the Project.

11. I/We certify that we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory JMC which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.

12. I/ We 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.

13. I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the guidelines referred to above, we shall intimate the JMC of the same immediately.

14. We acknowledge that our Consortium/ proposed Consortium shall bear the following composition:

a) Lead Member: M/s.....

b) Technical member: M/s.....

And we further undertake that above consortium composition shall be maintained till the end of this contract period or extension thereof. We further acknowledge that the lead member takes the full responsibility towards execution of the project and the terms and condition laid down in the contract agreement. (*Individual Bidder to strike out this point*).

15. I/We hereby irrevocably waive any right which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the JMC in connection with the selection of the Bidder, or in connection with the Bidding Process itself, in respect of the above mentioned Project and the terms and implementation thereof.

16. In the event of my/ our being declared as the Selected Bidder, I/We agree to enter into a Contract Agreement in accordance with the draft that has been provided to me/us prior to the Bid Due Date. We agree not to seek any changes in the aforesaid draft and agree to abide by the same.
17. I/We have studied all the Bidding Documents carefully and also surveyed the project area. We understand that except to the extent as expressly set forth in the Contract Agreement, we shall have no claim, right or title arising out of any documents or information provided to us by the JMC or in respect of any matter arising out of or concerning or relating to the Bidding Process including the award of Contract.
18. The Financial Bid has been quoted by me/us after taking into consideration all the terms and conditions stated in the RFP and draft Contract Agreement, our own estimates of costs and careful assessment of the site and all the prevailing and expected conditions that may affect the Bid.
19. I/We offer to the JMC a Bid processing fees of INR 15 , 000 and EMD of INR 200000 submitted Online through the website <http://eproc.cgstate.gov.in> as specified in this RFP document.
20. I/We agree and understand that the Bid is subject to the provisions of the Bidding Documents. In no case, I/We shall have any claim or right of whatsoever nature if the Project/ Contract is not awarded to me/us or our Bid is not opened.
21. I/We hereby submit our Bid in the form as specified in the RFP document for undertaking the aforesaid Project in accordance with the Bidding Documents and the Contract Agreement.
22. I/We agree to keep this offer valid for 04 (Four Month) Month from the Due Date of online Bid submission as specified in the RFP document or any other such duration as directed by the JMC.
23. I/We agree and undertake to abide by all the terms and conditions of the RFP document. In witness thereof, I/we submit this Bid under and in accordance with the terms of the RFP document.
24. I/we have received all the clarifications issued by the JMC.
25. I/we will abide by the terms and condition set forth in the RFP document, condition of contract and draft Contract agreement and a copy of the same bearing initial of the undersign on every page is attached herewith.
26. Notwithstanding any qualification or conditions, whether implied or otherwise, contained in our Proposal we hereby represent and confirm that our Proposal is unqualified and unconditional in all respects.

Yours faithfully,

Date: (Signature of the Authorized signatory)

Place: (Name and designation of the Authorized signatory)

Form 2: Format for Description of Bidder

S.No.	Particulars	Details		
		Individual Bidder Company (1)	Lead Member of Consortium (2)	Technical Member of Consortium (3)
1.	Name of the Bidding company			
2.	Date of incorporation and /or Commencement of Business			
3.	Brief description of the Bidder's main line of business			
4.	Details of individual (s) who will serve as the point of contact/communication for JMC with the bidder			
a.	Name			
b.	Designation			
c.	Company/Firm			
d.	Address:			
e.	Mobile Number			
f.	Email Address			
g.	Fax Number			
5.	Details of Authorized Signatory of Bidder			
a.	Name			
b.	Designation			
c.	Company/Firm			
d.	Address:			
e.	Mobile Number			
f.	Email Address			
g.	Fax Number			

Note:

Column '1' to be filled by the Individual Bidder and Column '2' & '3' to be filled by the respective members of the consortium

Form 3: Power of Attorney for Signing of Bid

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/ the Lead Member of our Consortium and holding the position of _____, as our true and lawful attorney (hereinafter referred to as the “Attorney”) to do in our name and our behalf , all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our bid for the [Project Name] Project proposed or being developed by the JAGDALPUR Municipal Corporation (the “JMC”) including but not limited to signing and submission of all applications, bids and other documents and writings, participate in bidders' and other meetings and providing information / responses to the JMC, representing us in all matters before the JMC, signing and execution of all contracts including the Contract Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the JMC 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 Contract Agreement with the JMC.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things lawfully 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 _____, 2020.

For _____

(Signature)

(Name, Title and Address)

Witnesses:

Accepted [Notarized]

(Signature)

(Name, Title and Address of the Attorney)

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 executants(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Also wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution/power of attorney in favor of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
- *To be executed on a Stamp Paper of Rs. 100/-, duly notarized.*

Form 4: Power of Attorney for Lead Member of Consortium

Whereas the _____ has invited bids for the Project titled [Project Name] (“the Project”).

Whereas, M/S _____ and M/S _____ (Collectively “the Consortium”) Members of the Consortium are interested in bidding for the Project in accordance with the terms and conditions of the Request for Proposal(RFP) and other connected documents in respect of the Project, and

Whereas, it is necessary for the Members of the Consortium to designate one of them as the Lead Member with all necessary power and JMC to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium’s bid for the Project and its execution.

NOW THEREFORE KNOW ALL MEN BY THESE PRESENTS

We, M/S _____ having our registered office at _____ and, M/s. _____, having our registered office at _____, [the respective names and addresses of the Consortium members] (Collectively referred to as Consortium), constitute, appoint and authorize M/s _____, having its registered office at _____, being one of the Members of the Consortium, as the Lead Member and true and lawful attorney of the Consortium (herein after referred to as “Attorney”) and hereby irrevocably authorize the Attorney(with power to sub-delegate) to conduct all business for and on behalf of the Consortium and any one of us during the bidding process and, in the event the Consortium is awarded the Contract, during the execution of the Project, and in this regard, to do on our behalf and on behalf of the Consortium, all or any of such acts, deeds or things as are necessary or required or incidental to the submission of its bid for the Project, including but not limited to signing and submission of all applications, bids and other documents and writings, participate in bidders and other meetings, respond to queries, submit information/ documents, sign and execute contracts and undertakings consequent to acceptance of the bid of the Consortium and generally to represent the Consortium in all its dealings with the JMC, and/ or any other Government Agency or any person, in all matters in connection with or relating to or arising out of the consortium’s bid for the Project and/ or upon award thereof till the Contract Agreement is entered into with the JMC. AND hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things lawfully 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/ Consortium.

IN WITNESS WHEREOF WE THE PRINCIPALS ABOVE NAMED HAVE EXECUTED THIS
POWER OF ATTORNEY ON THIS _____ DAY OF _____. For _____

(Name & Title)

For _____

(Name & Title)

For _____

(Executants)

(To be executed by all the Members of the Consortium)

Witnesses:

1.

2.

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 executants(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution/ power of attorney in favor of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
- *To be executed on a Stamp Paper of Rs. 100/- duly notarized.*

Form 5: Format for Consortium/Joint Venture Agreement

PERFORMA FOR CONSORTIUM/JOINT VENTURE AGREEMENT BETWEEN M/s_____and
M/s_____In JAGDALPUR n for Bid No._____of_____for the work of

The Joint Venture Agreement executed on this day of between M/S_____a company under the Laws of Company Act, 1956 and having its registered office at_____and Corporate Office at (herein after called the LEAD PARTNER, which expression shall include its successors, Executors and permitted Assigns) AND M/s_____a company having its registered office at (herein after called as TECHNICAL PARTNER, which expression shall include its successors, Executors and permitted Assigns) for the purpose of making a Bid and entering into a contract (in case of award) for "_____Works for " Tender No. Of_____, _____ (Here in after called as the JMC).

WHEREAS, the JMC Invited Bids as per above mentioned tender Document for the " _____"

WHEREAS in accordance with Instruction to Bidders of the Tender Specification. A Bidder may be a private entity or a government-owned entity or any combination of such entities with the intent to enter into an agreement supported by a letter of intent or under an agreement in the form of a consortium or Joint Venture

NOW THIS INDENTURE WITNESSETH AS UNDER

In consideration of the above premises and agreements all the partners to this Consortium/Joint Venture do hereby now agree as follows:

1. In consideration of the award of the Contract by the JMC to the Consortium/Joint Venture partners, we, the Partners to the Consortium/Joint Venture Agreement do hereby agree that M/s_____shall act as LEAD PARTNER and further declare and confirm that we shall jointly be bound unto the JMC for the successful performance of the Contract and shall be fully responsible for the works in terms of quality requirements and timeliness in performance in accordance with the Contract. Irrespective of Joint responsibility, it is expressly understood that LEAD PARTNER will be present at the site of the works, through its authorized representative at all times and play lead role in mobilizing resources and execution of the contract. The LEAD PARTNER will incur liabilities and receive instructions for and on behalf of any or all partners of the Consortium/Joint Venture and entire execution of the contract shall be done by the LEAD PARTNER and will be the sole responsibility of the lead partner of the consortium and payment under the contract

Shall be received by the LEAD PARTNER. The precise responsibility of the members of the Joint Venture in respect of planning, quality, execution of the works is as under (*Provide Roles of Each Member of Consortium/Joint Venture*):

LEAD PARTNER:

TECHNICAL PARTNER:

If in the determination of the JMC that the LEAD PARTNER is unable to fulfill its responsibility as above, the JMC shall be at liberty to terminate the contract which shall be binding on all partners of the Joint Venture.

2. In case of any breach of the said Contract by the LEAD PARTNER or Technical Partners of the Consortium/Joint Venture Agreement, the Partner(s) do hereby agree to be fully responsible for the successful performance of the Contract and to carry out all the obligations and responsibilities under the Contract in accordance with the requirements of the Contract.
3. Further, if the JMC suffers any loss or damage on account of any breach in the Contract or any shortfall in meeting the performance guaranteed as per the works Contract, the Partner(s) of these presents undertake to promptly make good such loss or damages caused to the JMC, on its demands without any demur. It shall not be necessary or obligatory for the JMC to proceed against LEAD PARTNER to these presents before proceeding against or dealing with other Partner(s).
4. The financial liability of the Partners of this Consortium/Joint Venture agreement to the JMC, with respect to any of the claims arising out of the performance or non-performance of the obligations set forth in the said Consortium/Joint Venture Agreement, read in conjunction with the relevant conditions of the Contract shall, however, not be limited in any way so as to restrict or limit the liabilities of any of the Partners of the Joint Venture agreement.
5. It is expressly understood and agreed between the Partners to this Consortium/Joint Venture agreement that the responsibilities and obligations of each of the Partners has been delineated in clause no. 1 herein above to this agreement. It is further agreed by the Partners

that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint responsibilities of the Partners under this Contract.

6. This Consortium/Joint Venture Agreement shall be construed and interpreted in accordance with the laws of India, courts of JAGDALPUR; Chhattisgarh shall have the exclusive jurisdiction in all matters arising there under.

7. It is further agreed that the Consortium/Joint Venture agreement shall be irrevocable and shall form an integral part of the contract, and shall continue to be enforceable till the JMC discharges the same. It shall be effective from the date first mentioned above for all purposes and intents.

IN WITNESS WHEREOF, the Partners to the Consortium/Joint Venture Agreement have through their Authorized Representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

[Name, Signature of all Joint Venture Partners]

[Name and Signature of Witnesses]

Form 6: Form for Financial Pre-Qualification

A. Turnover

Financial Year	Annual Turnover (in INR)
Year 1	
Year 2	
Year 3	
Average Turnover	

B. Net Worth as on Year 1 (Financial Year preceding to Due date of Bidding): INR

=====

Note:

- 1. The financial year shall mean the period commencing from April 1 of any given year to March 31 of the succeeding year.*
- 2. The Bidder shall provide the Audited Annual Financial Statements of the corresponding years. Failure to do so would result in the Proposal being considered as non-responsive. In case the annual accounts for the latest financial year are not audited and therefore cannot make it available, the applicant shall give an undertaking, to this effect and the statutory auditor shall certify the same. In such case, the applicant shall provide the audited annual reports for five years proceeding the year for which audited annual report is not being provided.*
- 3. A certificate from Statutory Auditor should be provided as supporting document certifying the Financial Pre-Qualification.*

(Signature of the Authorized signatory)

Form 7: Format for Banker’s Certificate

To,

Commissioner,

Dear Sir/Madam,

Ref: Request for Proposal issued by the _____ dated _____

Sub: RFP Reference No. _____ **dated** _____ **for Selection of Contractor to** _____ *(Name of Work)*

This is to certify that M/s. _____ is a reputed company with a good financial standing. If the contract for this work _____ *(Name of Work)*, is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. to meet the working capital requirements for executing the above contract

Sd./
Senior Bank Manager Name of Bank
Address
Contact No.

***Change the text as follows for Joint venture:**

This is to certify that M/s _____ *(Name of Lead Member)* who has formed a Consortium/Joint Venture with M/s _____ *(Name of Technical Member)* is a reputed company with a good financial standing. If the contract for this work to _____ *(Name of Work)*, is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. to meet the working capital requirements for executing the above contract

Sd./
Senior Bank Manager
Name of Bank
Address
Contact No.

Form 8: Format for summary of Technical Pre-Qualification

(List only those works, which are similar to the proposed works for which the Qualification Information is submitted)

A. Summary Table

Name of Applicant/Member of Consortium (in case of consortium) Claiming the Project Experience:							

S. No.	Brief Project Description	Project Award Date <i>(Only those Project(s) awarded in preceding 5 FY from due date of bidding shall be considered)</i>	Project Completion Date/ expected completion date	Project Cost in INR (Cr)	Project Capacity (M ³ / MT) (A)	Claiming Entity's Share in the Project (%) (B)	Effective Handled Capacity A x B (c) (M ³ / MT)

B. Average Project Capacity (As per column 'C') of eligible projects handled (as mentioned in summary table above is _____(m³/ MT)

1. *The details of each of the works mentioned in the above table must be provided separately in Form 8 (A).*
2. *Use a separate sheet for each member in case of a consortium.*
3. *Provide attested copies of Work Orders and Completion Certificates for each project. Work orders/ testimonials will be verified if required.*
4. *Each certificate of experience will be duly signed/confirmed by a representative of the client.*

Form 8(A): Details of Projects eligible for Technical Pre-Qualification

(Provide Details for Only those Projects listed in Form 8, use separate sheet for each project)

Name of Applicant/Member of Consortium (In case of Consortium) Claiming the Project Experience :	
1.	Name of Project
2.	Location of Project
3.	Name of the Client
4.	Client's Address & Telephone Number, Fax Number and e mail ID of contact person
5.	Project Cost (in INR Cr)
6.	Nature of works and special features relevant to this project. (Details pertinent to the Technical Criteria of this RFP shall be submitted)
7.	Contract role (check one) <input type="radio"/> Sole Contractor <input type="radio"/> Consortium/Joint Venture <input type="radio"/> Sub-Contractor
8.	a) Project Capacity: b) Your Company's share in the Project(%):
9.	Date of Award
10.	Contract duration _____years_____Months
11.	Date of Completion
12.	Whether Completed in specified duration, If No, reason for delay
13.	Specified requirements
14.	Name and professional qualifications of applicant's Engineer-in-Charge of the work:
15.	Were there any penalties/fines/stop-notice/compensation/liquidated damages Imposed? (Yes or No). If yes, give amount and explanation.

Form 9(A): Format for Submitting Dumpsite Reclamation and Gas/ Leachate Management Plan

The Bidder will submit a Dumpsite Reclamation, Gas and Leachate Management Plan covering the following topic:

1. Dumpsite land reclamation: Present the proposed Site layout development, land reclamation sequence on layout drawing, general arrangement of machineries, screening, sorting, storing, packing areas.
2. Excavation, Screening & Resource Recovery: Indicate number, type and capacity of equipment's/machinery to be deployed for the purpose of excavation, segregating, sorting, retrieving recoverable materials, storing, baling, packing, selling, provide the basis for deciding the number and justify the time period estimated for the activity and operation and maintenance details.
3. Bio-mining of un-processed municipal solid waste: Specify the proposed method in detailed, quantity of resources required, provide the basis for deciding the quantity of resources, number and justify the time period estimated for the activity and operation and maintenance details.
4. Development of facility for Scientific disposal of residual Solid Waste : Detail the proposed method and quality control protocol for laying various landfill liner layers, quantities of materials, equipment/ machinery proposed to be deployed and justification of the proposed to facility and scientific rejects disposal/ backfill in facility operation and maintenance details.
5. Leachate collection, treatment system and surface water drainage works: Present leachate collection system and surface water drainage system including the alignment, treatment, disposal locations and invert levels

All of the above should be suitably supported with the engineering drawings, manpower requirement, fuel/power requirement and explanation of estimated time schedule.

Based on the above work requirement, the Bidder will provide details of plant, machinery and equipment proposed to be deployed in the works in the format 9(A)

The Bidder shall also provide a list of key personnel proposed to be deployed for the work with their curriculum XXXXXXXXe in the Format Provided in Form 9 (B)

Form 9 (B): Details of Key Personnel to be deployed for the Project

(Use separate Sheet for each key personnel)

Name of Bidder Company/Consortium members' company <i>(in case of consortium)</i> :			
Proposed Position			
Key Personnel Information	1. Name 2. Date of Birth 3. Contact Number 4. Professional Qualification 5. Current Designation 6. Years With Present Employer		
Experience Summary Relevant to this Project			
Professional Experience over the last 10 Years (in chronological order)	From	To	Company/Project/Position/Relevant Technical and Management experience

Form 10: Format for Providing Environment, Health and Safety Management Plan

The Bidder shall furnish a brief write-up of the following points:

1. Plan for Mitigation of Pollution during Project Execution work
2. Measures to manage hazardous waste if any during the project execution
3. Plan for Health and safety in and around the workplace to be followed during project execution
4. Emergency preparedness plan
5. Measures for Fire safety.
6. Measures for Health and safety of workers.

Form 11: Format for Letter of Intimation (LoI)

LETTER OF INTIMATION (LOI)

(On the Letter Head of the JMC)

Date:

M/s. _____

(Name and address of the contractor)

Subject: _____

(Name of the work as appearing in the bid for the work)

Dear Sir (s)/ Madam(s),

Your bid for the work mentioned above has been accepted on behalf of the *(Name of JMC)*, at your bided offer as per scope of work given therein. You are requested to submit within 21 (Twenty-One) days from the date of issue of this letter:

- (i) The performance security/performance guarantee of Rs. _____(in figures) Rupees _____(in words only). The performance security shall be in the form of bank guarantee of any nationalized / schedule commercial bank.
- (ii) Sign the Contract Agreement.

Please note that the time allowed for carrying out the work as entered in the bid is 6 months including rainy season, shall be reckoned from the date of signing the contract agreement or issuance of Consent to Establish to the project whichever is later.

Signing the contract agreement shall be reckoned as intimation to commencement of work and no separate letter for commencement of work is required. Therefore, after signing of the agreement, you are directed to contact JMC/Engineer-in-charge for taking the possession of site and necessary instructions to start the work.

Commissioner

JAGDALPUR Municipal

Corporation,

JAGDALPUR (C.G.)

Form 12: Format for Performance Bank Guarantee

To:

The Commissioner municipal corporation JAGDALPUR WHEREAS
_____ [Name and address of Contractor] (Here in after called "the Contractor") has
Undertaken, in pursuance of Contract No. _____ Dated _____ To execute
_____ [Name of Contract and brief description of Works] (Here in after called
"the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with
a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his
obligations in accordance with the Contract; AND WHEREAS we have agreed to give the Contractor such a
Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the
Contractor, up to a total of _____ [amount of guarantee]
_____ [in words], such sum being payable in the types and proportions of
currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written
demand and without cavil or argument, any sum or sums within the limits of
_____ [Amount of guarantee] as aforesaid without your needing to prove or to show
grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your
demanding the said debt from the Contractor before presenting us with the demand. We further agree that no
change or addition to or other modification of the terms of the Contract or of the Works to be performed
there under or of any of the Contract documents which may be made between you and the Contractor shall
in any way release us from any liability under this guarantee, and we hereby waive notice of any such
change, addition or modification. This guarantee shall be valid until (Date of Validity as per the
Bid Document)

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____

Form 13: Format for Retention Security Deposit Bank Guarantee (SBG)

To: The Commissioner municipal corporation JAGDALPUR WHEREAS _____
[name and address of Contractor] (here in after called "the
Contractor") has undertaken, in pursuance of Contract No. _____ Dated _____ to execute
_____ [name of Contract and brief description of Works] (hereinafter called "the
Contract");

AND WHEREAS it has been stipulated by you in the said Contract Clause No. 7.2 that the Contractor shall furnish you with a Security Bank Guarantee (SBG) by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee] _____ [in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [Amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until _____ days (*Validity Period as per sub-Clause 7.2.4*)

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____

FORMAT OF FINANCIAL BID

Municipal corporation JAGDALPUR Financial Bid

Name of Work: **Pprocessing fee Lump Sum for Assessment, Evaluation Management, Bioremediation and s scientific Closer and land reclamation through bio mining processing of old Legacy Waste, Resource Recovery and Disposal, inert segregation and disposal from the existing dump site at Trenching Ground KANGOLI municipal Corporation JAGDALPUR area as per SWM Rule 2016 and guide line of legacy waste Management (CPCB) New Delhi within 06 Months.**

I/We do hereby BID to execution of the above work within the time specified at the rate lump sum (In figures)_____ (In words)_____ in all respects and in accordance with the specifications, designs, drawings and instructions in writing in all respects in accordance with such conditions so far as applicable. I/We have visited the site of work and am/are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns, nature and the extent of ground, working conditions including stacking of materials, installation of tools and plant conditions effecting accommodation and movement of labor etc. required for the satisfactory execution of contract.

Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract so far as applicable, or in default thereof to forfeit and pay to the Commissioner, Municipal Corporation, JAGDALPUR or his successors in office the sums of money mentioned in the said conditions.

Volume II- Draft Contract Agreement Format

Draft Contract Agreement Format

This agreement, made the _____ day of 20____, between the JAGDALPUR municipal corporation, municipal corporation JAGDALPUR (Here in after called as "the JMC") of the one-part M/S _____ and [name and address of contractor] (here in after called "the Contractor") of the second part.

Whereas the JMC is desirous that the Contractor execute _____ [name and identification number of Contract] (hereinafter called "the Works") and the JMC has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a contract price of INR _____.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the JMC to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the JMC to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The JMC hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein 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.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - i). Letter of Acceptance;
 - ii). Notice Inviting Bid;
 - iii). Bid Document issued by the JAGDALPUR Municipal Corporation and its subsequent amendments and corrigendum
 - iv). Contractor's Bid;

- v). Conditions of contract (including Special Conditions of Contract);
- vi). Specifications;
- vii). Drawings and Site Map;
- viii). Any other document listed in the Condition of Contract forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____ was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said

In the presence of:

Binding Signature of JMC

Binding Signature of Contractor (To be signed by the Authorized Signatory of the Bidder)

*****END OF DRAFT CONTRACT AGREEMENT*****

Volume III- Conditions of Contract

Conditions of Contract

General Conditions of Contract (GCC)

1. Definitions

"JMC" means the Commissioner JAGDALPUR Municipal Corporation, JAGDALPUR who will execute the contract agreement with the Contractor to carry out the work. The JMC may delegate any or all functions to a person or body nominated by him for specified functions. The word JMC/Government/Department wherever used denotes the JMC.

"Completion" means completion of the work, as certified by the Engineer-in-Charge, in accordance with provisions of agreement.

"Contract" means the Contract between the JMC and the Contractor to execute, complete and/or maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.

"Contractor" means a person, or a legal entity whose bid to carry out the work has been accepted by the JMC.

"Contractor's bid" means the completed bid document submitted by the Contractor to the JMC.

"Contract amount" means the amount of contract worked out on the basis of accepted bid.

"Completion of work" means completion of the entire contracted work. Exhaustion of quantity of any particular item mentioned in the bid document shall not imply completion of work or any component thereof.

"Day" means the calendar day.

"Defect" means any part of the work not completed in accordance with the specifications included in the contract.

"Drawings" means drawings including calculations and other information provided or approved by the Engineer-in-Charge.

"Department" means the JAGDALPUR Municipal Corporation or as specified.

"Engineer in charge" means the person nominated by the JMC for overall supervision and coordination of the work, provide approval to work plan and work schedules submitted by the contractor for commencement of the work, approval of drawings and specification, certification of the work executed by the contractor and invoice raised by the contractor. The Word "Engineer" wherever used, other than mentioned or specified, means the Executive Engineer

"Equipment" means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work at his own cost.

"Government" means the Government of Chhattisgarh or the Government of India as the case may be.

"In Writing" means communicated in written form and delivered against receipt.

"Material" means all supplies including consumables used by the Contractor for incorporation in the work.

"Stipulated date of completion" means the date on which the Contractor is required to complete the work. The stipulated date is specified in the Contract Data.

"Specification" means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.

"Start Date" means the date 14 days after the signing of agreement for the work. However, the JMC may extend this time limit by another 14 days, as and when required.

"Sub-Contractor" means a person or corporate body who has a Contract (duly authorized by the JMC) with the Contractor to carry out a part of the work under the Contract.

"Temporary Work" means work designed, constructed, installed, and removed by the Contractor that are needed for the work.

"Tender/Bid/Bid Document/Request for Proposal (RFP), Tendered/Bidder" are the synonyms and carry the same meaning where ever used.

"Variation" means any change in the work which is instructed or approved as variation under this contract.

"Work" the expression **"work"** or **"works"** or **"Project"** where used in these conditions shall unless there be something either in the subject or context repugnant to such work, be construed and taken to mean the work by virtue of contract, contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional.

"Work Plan" means the implementation plan, including phasing of works, physical completion milestones and other such details that the JMC shall seek from time to time with respect to tracking progress of the works.

2. Interpretations

In the contract, except where the context requires otherwise

Words indicating one gender include all genders;

Words indicating the singular also include the plural and vice versa;

Provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;

Written" or "in writing" means hand-written, type-written, printed or electronically made,

And resulting in a permanent record; Words have their normal meaning under the language of the Contract unless specifically defined.

The Engineer will provide instructions clarifying queries about the Conditions of Contract.

3. Documents Forming Part of Contract:

Notice Inviting Bid with all amendments.

Tender Document (Tender Notice No. –XXXXXX) with all amendments and corrigendum
Contract Agreement

Conditions of Contract:

- a) Part A: General Conditions of Contract and Contract Data with all Annexure;
- b) Part B: Special Conditions of Contract.

Specifications;

Drawings and site map

Technical and Financial Bid submitted by the Contractor

Any other document (s), as specified or important to execute this contract.

4. Language and Law

The language of the Contract and the law governing the Contract are stated in this condition of contract.

5. Communications

All certificates, notice or instruction to be given to the Contractor by JMC/Engineer shall be sent on the address or contact details given by the Contractor in Form 2 of his submitted Bid. The address and contract details for communication with the JMC/Engineer shall be as per the details given in bid data sheet of the RFP Document or as specified in written from time to time. Communication between parties that are referred to in the conditions shall be in writing. The notice sent by facsimile (fax) or other electronic means (email) shall also be effective on confirmation of the transmission. The notice sent by registered post or speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service. In case of any change in address for communication, the same shall be immediately notified to Executive Engineer.

6. Engineer's Decisions

Except where otherwise specifically stated, the Engineer under the guidance of Commissioner, JMC will decide contractual matters between the JMC and the Contractor in the role representing the JMC.

The Engineer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

7. Subcontracting

The Contractor may subcontract with the approval of the JMC but may not assign the Contract without the approval of the JMC in writing. Subcontracting does not alter the Contractor's obligations.

8. Personnel

The Contractor shall employ the key personnel named in the Schedule of Key Personnel in the Form 9 (B) of his submitted technical bid to carry out the functions stated in the Schedule or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.

If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force or sub-contractor, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

9. Force Majeure

The term "Force Majeure" means an exceptional event or circumstance:

- a) Which is beyond a party's control;
- b) Which such party could not reasonably have provided against before entering into the contract;
- c) Which, having arisen, such party could not reasonably have avoided or overcome, and;
- d) Which is not substantially attributed to the other Party

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) in the sub-clause 9.1 above, are satisfied:

- (i) War, hostilities (whether war be declared or not), invasion, act of foreign enemies);
- (ii) Rebellion, terrorism, sabotage by persons other than the contractor's Personnel, revolution, insurrection, military or usurped power, or civil war;
- (iii) Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;
- (iv) Munitions of war, explosive materials, ionizing radiation or contamination by radio activity, except as may be attributed to the Contractor's use of such munitions, explosives, radiation or radio activity, and;
- (v) Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.

For the period of extension granted to the Contractor due to Force Majeure the penalty clause shall not apply. It is clarified that the clause '9' shall not give eligibility for any adjustment or escalation in contract amount.

The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed six months, the parties to the contract shall be at liberty to foreclose the contract after holding mutual discussions.

10. Contractor's Risks

All risks of loss of or damage to physical property and of personal injury and death which Arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.

All risks and consequences arising from the inaccuracies or falseness of the documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that designs/drawings or other documents have been approved by the department.

11. Safety

The Contractor shall be responsible for the safety of all activities on the Site. The contractor shall comply to the safety guidelines and best industrial practice to implement safety at work place.

12. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Government and/or the JMC, against all action, suits, claims, demands, costs etc. arising in connection with injuries suffered by any persons employed by the contractor or his

Subcontractor for the works whether under the General Law or under workman's compensation Act, or any other statute in force at the time of dealing with the question of the liability of employees for the injuries suffered by employees and to have taken steps properly to ensure against any claim there under.

13. Contractor to Complete the Works

The Contractor shall execute the Works in accordance with the Milestone, Work plan, work schedule, Specifications, Drawings and site map as specified in the Bid Document. In the case of any class of work for which there is no such specification as is mentioned in the Tender Document, such work shall be carried out in accordance with the instructions and requirement of the Engineer-in-charge.

The contractor shall supply and take upon himself and at his cost the entire responsibility of the sufficiency of all the means and resources used for the fulfillment of this contract hether such means may or may not be specified in the scope of work, Bid Document, contract agreement or recommended by the Engineer-in-charge.

14. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the JMC/Government. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

15. Dispute Resolution System

No dispute can be raised except before the JMC in writing giving full description and grounds of Dispute. It is clarified that merely recording protest while accepting measurement and/or payment shall not be taken as raising a dispute.

No issue of dispute can be raised after 45 days of its occurrence. Any dispute raised after expiry of 45 days of its first occurrence shall not be entertained and the JMC shall not be liable for claims arising out of such disputes.

The JMC shall decide the matter within 45 days.

Appeal against the order of the JMC can be referred within 30 days to the court of JAGDALPUR

The contractor shall have to continue execution of the works with due diligence notwithstanding pendency of a dispute before any JMC or forum.

16. Approval by the Engineer

The Contractor shall submit the work plan, work schedule, Specifications and Drawings for the commencement of the proposed work/part of proposed work/milestone of proposed work, before the commencement of such works. The contractor shall proceed for the commencement of such work only after the approval of the Executive Engineer.

The Contractor shall be responsible for design of the proposed Works.

The Contractor shall obtain approval of third parties to the design of the Works where required.

All Drawings, work plan and work schedule prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

17. Time Frame for completion of works

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the milestone achievement schedule set out in the Bid Document as updated time to time by the approval of the Executive Engineer, and complete them by the Intended Completion Date.

The Engineer's approval of the work schedule shall not alter the Contractor's obligations

18. Extension of Time

If the Contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply, in writing, to the Executive Engineer, on account of which he desires such extension. Executive Engineer shall forward the aforesaid application to the competent JMC as prescribed.

The JMC shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of grounds of having unavoidable hindrance in execution of work or on any other such grounds, and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

19. Liquidated Damages

The Contractor shall pay liquidated damages to the JMC at the rate per day stated in The sub-clause 7.2 of the RFP document, for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the contract data) after considering the extension of time as specified in clause 17 of this GCC. The total amount of liquidated damages shall not exceed the amount defined in the sub-clause 7.2 of the RFP document. The JMC will deduct the liquidated damages from payments due to the Contractor.

If the Intended Completion Date is extended after liquidated damages have been paid, the JMC shall correct any overpayment of liquidated damages by the Contractor by adjusting such overpayment from the next payment due to the contractor or final settlement of payments with the contractor as the case may be. The contractor shall not pay any interest on any such amount of overpayment of liquidity damages.

Payment of liquidated damages does not affect the Contractor's liabilities.

20. Contract amount

No interest shall be payable to the Contractor on any payment due or awarded by the JMC.

The rates quoted by the Contractor shall be deemed to be inclusive of GST and other levies, duties, cess, toll, taxes of Central and State Governments, local bodies and authorities.

21. Quality Control

Identifying Defects

The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

The contractor shall permit the JMC's Technical auditor to check the contractor's work and notify the Engineer and Contractor of any defects that are found. Such a check shall not affect the Contractor's or the Engineer's responsibility as defined in the Contract Agreement.

Correction of Defects

The Commission, JMC/ Engineer shall give notice to the Contractor of any Defects, in writing.

Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time and satisfaction level of the Engineer as specified in the Engineer's notice.

If the Contractor has not corrected a Defect, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

22. Termination of Contract

The JMC or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. Fundamental breaches of Contract include, but shall not be limited to the following:

- (a) Abandons the works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the contract;
- (b) The Executive Engineer instructs the Contractor to delay the progress of the Works and the instruction is not withdrawn within 60 days;
- (c) The JMC or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (d) The Contractor without reasonable excuse fails to comply with the notice to correct a particular defect within a reasonable period of time;
- (e) the Contractor does not maintain a valid instrument of financial Security, as prescribed;
- (f) the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;

(g) if the Contractor, in judgmental of the engineer in charge has engaged in corrupt or fraudulent practices in competing for or in executing the contract, the definition of corrupt and fraudulent practice shall be as defined in clause 5.9 of the RFP document;

(h) the contractor fails to perform in the manner as specified in the Contract agreement, bid document, bid submitted by him or recommendation by the Executive Engineer;

(i) The contractor (in case of Consortium/joint venture) has modified the composition of the Consortium/ joint venture and/or the responsibility of each member of the Consortium/ joint venture from what is stated in Consortium/joint venture agreement without prior approval of the JMC.

Notwithstanding the above, the JMC may terminate the Contract for convenience.

If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the JMC, if the Contract is terminated because of a Contractor's default.

23. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less adjusted advance payments (on pro-rated basis) received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as per the percentage of milestone achievement. Additional Liquidated Damages shall not apply. If the total amount due to the JMC exceeds any payment due to the Contractor, the difference shall be a debt payable to the JMC.

If the Contract is terminated at the JMC's convenience or because of a fundamental breach of Contract by the JMC, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

24. Performance Security

The Contractor shall have to submit performance security as set out in the clause 5.7 of the tender document. The contractor shall have to ensure that such performance security remains valid for the period as specified in the tender document.

25. Payment of contract Amount

Payment of the 'contract amount' shall be made to the contractor in accordance to the provision as set out in the clause 7 of the RFP document.

No advance payment shall be made to the contractor in any case.

The invoice for the payment shall be raised by the contractor, after the certification of the work completed by the contractor and the invoice by the Executive Engineer

The payment shall be made through Demand Draft/Cheque/NEFT/RTGS. No payment shall be made in cash

All payment shall be made in Indian currencies

26. Completion Certificate

A provisional completion certificate in the prescribed format as given in Annexure I of this condition of contract shall be issued by the Engineer in charge after physical completion of the work.

After final payment to the contractor, a final completion certificate in the prescribed format as given in Annexure II of this condition of contract shall be issued by the Engineer in charge.

The JMC shall take over the Site and the Works within seven days of the issue of the provisional Completion certificate.

27. Insurance and Indemnity

a) The Service Provider shall take at its own cost the insurance policies covering the risk and perils involved in the Services including third party risk, Third party Motor Vehicle Insurance, the Employees/ Workmen accident risk, loss or damage to equipment and property and the professional liability insurances covering the period of Services i.e. Contract Period..

28. Governing Law

The law governing the Contract shall be Laws of India and courts at Chhattisgarh shall have exclusive jurisdiction.

29. Intellectual Property

In order to perform the Services, the Service Provider must obtain at its sole account, the necessary licenses, permissions and authorizations from the titleholder of the corresponding patents, models, trademarks, names or other protected rights and shall keep the Client harmless and indemnify the Client from and against claims, proceedings, damages, costs and expenses (including but not limited to legal costs) for and/or on account of infringements of said patents, models, trademarks names or other protected rights.

- (a) All inventions, discoveries, improvements, copyrightable material, concepts, the final products, all documents, report, information, data etc. collected and prepared by Service Provider or its employees in connection with the scope of Services submitted to the Client shall be deemed to be the sole property of the Client and the Service Provider hereby waives any right, title or interest, if any in the same, in favour of the Client.

- (b) The Service Provider shall not be entitled either directly or indirectly to make use of the documents, reports given by the Client for carrying out of any Services with any third parties.
- (c) The Service Provider shall not without the prior written consent of the Client be entitled to publish studies or descriptive article with or without illustrations or data in respect of or in connection with the performance of services.
- (d) The Service Provider's obligations under this Clause will survive even after expiration / termination of this Contract.

30. Liability

The Service Provider's liability towards Client under or in connection with the Services under the contract whether for breach of obligations, tort, negligence or otherwise howsoever arising, shall not exceed total amount of the Contract price.

The Service Provider shall be solely responsible for any loss or damage due to accident caused to the life and property of the Service Provider including its employees, workers, representatives, agents etc. during performance of the Services under this Contract and in no case the SUDA shall be liable/ responsible for the 'same.

31. Changes in Cost and Legislation

The Contract Price being inclusive of all taxes, duties, levies etc except GST. The Service Provider shall be reimbursed payment of only new taxes if any freshly imposed by the legislator/ likewise, appropriate deduction shall be made if any of the existing taxes are abolished or withdrawn.

32. Variations

- The Agreement can be varied/ amended on application by either party by a written agreement executed by and between the parties.
- No Price Variation: No Price variation is allowed to the Service Provider during Contract Period

*****END OF GCC*****

B. Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

1. Role of Parties to the Contract

Role of the JMC

The JMC shall play the following role in this project

- (i) The JMC shall handover the Project Site and on an as-is-where-is basis, free from Encumbrances, for the execution of the Project. The JMC will not provide
- (ii) any equipment or vehicle for the project. All equipment and machinery required by the successful contractor shall be arranged by the contractor at his own cost.
- (iii) The JMC shall earmark the land (to be reclaimed and to be used for segregation and processing of excavated mixed MSW) and give possession to the Contractor within one week of the execution of the Contract Agreement.
- (iv) The JMC shall provide access to the land earmarked to the contractor for implementing the project.
- (v) The JMC shall provide necessary clearances, permits, approvals, authorizations, and no objection certificates, at its own cost, which are required by the contractor to execute the project and obtain Water and Sewage Connection and Power Connection.
- (vi) The JMC shall permit the contractor to carry out the project till the conclusion of the Contract Period of Four months or any extension thereof.

Role of the Contractor

- (i) The contractor shall execute and complete the project in accordance with the provisions set out in the tender document, the Conditions of contract and the contract agreement
- (ii) The contractor shall have no right or title or leasehold right on the land earmarked to them. The Land earmarked to the Bidder shall not be used for any other purpose other than for the project purpose.
- (iii) The contractor is entitled to switching over to the technologies according to the viability of the implementation of the project commercially subject to prior submission of proposal for such technology switch describing the details of such technology and advantage of using the technology and such proposal being approved by the Executive Engineer.
- (iv) The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the JMC at any point of time.

2. Compliance to Law, Rules and Regulations

The contractor shall abide with all the rules and regulations of the Government of India, Government of Chhattisgarh, Local Governments or any other Government bodies that has direct or indirect incidence on the project, in addition to the rules and regulations mentioned below.

The Contractor shall keep the JMC indemnified in case any action is taken against the JMC by the competent JMC on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the JMC is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/JMC shall have the right to deduct any money due to the Contractor including his amount of performance security. The JMC/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the JMC. The contractor shall perform his obligations for the completion of the works under the umbrella of the below given rules and regulations:

Compliance with Labour Regulations and other regulations

During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local Authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local JMC. Additionally, compliance of other laws such as but not limited to Minimum wages act, environmental protection act etc. shall responsibility of the bidder. All the compliance such as insurance, PF , Mediclaim etc. if applicable will be scope of the bidder.

Protection of Environment

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

During continuance of the contract, the contractor and his sub-contractors shall abide at all times by all the terms and conditions prescribed in the Environmental Clearance/ Consent to Establish/Consent to operate issued to the project, existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local JMC.

The contractor shall commence the project activities as per the rules, regulations and guidelines as set forward by the Solid Waste Management, 2016 guidelines of Legacy waste (Old Municipal Solid waste) CPCB and its subsequent amendments thereof,

Construction and Demolition Waste Management Rules 2016 Guidelines for Disposal of Legacy Waste and its subsequent amendment thereof, Plastic Waste Management Rules 2016 and its subsequent amendment thereof, Bio- Medical Waste management rules 2016 and its subsequent amendment thereof, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 guidelines of

Legacy waste (Old Municipal Solid waste) CPCB and its subsequent amendment thereof, E-waste management rules 2016 and its subsequent amendment thereof, Environment Protection Act 1986 and its subsequent amendment thereof. Contractors to note that this is the minimum criteria required for the commencement of this work and the contractor will practice the best possible method to protect the Environment.

*****END OF SCC*****

Annexure I: Provisional Completion Certificate

Name of Work:

Agreement No. _____ Date _____

Amount of Contract Rs _____

Quantity of Waste Processed _____ cubic meter

Certified that the above-mentioned work was provisionally completed on (Date) and taken

Over on(Date) and that I have satisfied myself to best of my ability that the work has been done properly.

Date of issue

Executive Engineer

Annexure II: Final Completion Certificate

Name of Work:

Agreement No. _____ Date: _____

Name of Agency: _____ Certified that the

Above-mentioned work was

physically completed

On _____ (date) and taken over on _____ (date).

Agreement amount Rs. _____

Final amount paid to contractor Rs. _____.

Quantity of Waste Processed _____ cubic meter

Incumbency of officers for the work

I have satisfied myself to best of my ability that the work has been done properly.

Date of Issue: _____

Executive Engineer

Annexure III: Pre contract Integrity Pact

1. GENERAL

This pre-bid contract Agreement (herein after called the Integrity Pact) is made on..... day of the month 20..... between, the Commissioner Municipal Corporation JAGDALPUR, Dist: JAGDALPUR, Chhattisgarh acting through Shri (Designation of the officer, Department) The Commissioner Municipal Corporation JAGDALPUR, Dist: JAGDALPUR, Chhattisgarh (hereinafter called the “BUYER” which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) and the First Party, proposes to procure (name of the Stores / Equipment /Work/Service) and M/srepresented by Shri..... (Hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors an permitted assigns) and the Second Party, Is willing to offer/has offered.

WHEREAS the BIDDER is a Private Company/Public Company/Government Undertaking/Partnership/Registered Export Agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government, performing its function on behalf of the Commissioner Municipal Corporation JAGDALPUR, Dist: JAGDALPUR, Chhattisgarh

2. OBJECTIVES

NOW , THEREFORE the BUYER and the BIDDER agree to enter into this pre-contract agreement , hereinafter referred to as Integrity Pact, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to during and subsequent to the Contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired Stores/Equipment /Work/Service at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practices in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing any corrupt practices and the BUYER will commit to prevent corruption, in any form, by its official by following transparent procedures.

3. COMMITMENTS OF THE BUYER

The BUYER commits itself to the following:-

The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favors or any material or immaterial benefit or any other advantage from the BIDDER,

Either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- a. The BUYER will, during the pre-contract stage, treat BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to the other BIDDERS.
- b. All the officials of the BUYER will report the appropriate Municipal Corporation JAGDALPUR, Dist: JAGDALPUR office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with the full and verifiable facts and the same prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

4. COMMITMENTS OF BIDDERS

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, un fair means an illegal activities during any stage of its bid or during any pre-contract or post- contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-

The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or the any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour , any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the BUYER or otherwise in procuring the Contract of forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the MUNICIPAL CORPORATION JAGDALPUR for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.

The BIDDER further confirms and declares to the BUYER that the BIDDER in the original Manufacture/Integrator/Authorized MUNICIPAL CORPORATION JAGDALPUR sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede,

facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

The BIDDER shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

The BIDDER shall not instigate or cause to instigate any third person to commit any of the acts mentioned above.

5. PREVIOUS TRANSGRESSION

The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any MUNICIPAL CORPORATION JAGDALPUR Department in India that could justify BIDDER's exclusion from the tender process.

If the BIDDER makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

6. EARNEST MONEY DEPOSIT (SECURITY DEPOSIT)

Every BIDDER while submitting commercial bid, shall deposit an amount as specified in RFP as Earnest Money Deposit/Security Deposit, with the BUYER through any of the following instruments:

(i) Bank Draft or a Pay Order in favour of.....

(ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the(BUYER)on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever, The demand for payment by the BUYER shall be treated as conclusive proof of payment.

(iii) Any other mode or through any other instrument (to be specified in the RFP).

The Earnest Money Deposit/Security Deposit shall be valid up to a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and BUYER, including warranty period, whichever is later.

In the case of successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

No Interest shall be payable by the BUYER to the BIDDER on Earnest Money Deposit/Security Deposit for the period of its currency.

7. SANCTIONS FOR VIOLATIONS

Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-

(i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceeding with the other BIDDER (s) would continue.

(ii) To forfeit fully or partially the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed), as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of the Indian BIDDER with interest thereon at 2% higher than the prevailing Prime lending Rate while in case of a BIDDER from a country other than India with Interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encase the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.

(vi) To cancel all or any other contracts with the BIDDER and the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation / rescission and the BUYER shall be entitled to deduct the amount so payable from the money (s) due to the BIDDER.

(vii) To debar the BIDDER from participating in future bidding processes of the MUNICIPAL CORPORATION JAGDALPUR for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this Pact by BIDDER (s) to any middlemen or agent or broken with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or Indirectly, is closely related to any of the officers of the BUYER, or alternatively if any close relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender Any failure to disclose the interest involved shall entitle the BUYER to rescind the contract without payment of any compensation to the BIDDER.

The term 'close relative for this purpose would mean spouse whether residing with the MUNICIPAL CORPORATION JAGDALPUR servant or not, but not include a spouse separated from the MUNICIPAL CORPORATION JAGDALPUR servant by a decree or order of a competent court, son or daughter or step son or step daughter and wholly dependent upon MUNICIPAL CORPORATION JAGDALPUR servant but does not include a child or step child who is no longer in any way dependent upon MUNICIPAL CORPORATION JAGDALPUR servant, or of whose custody the MUNICIPAL CORPORATION JAGDALPUR servant has been deprived of by or under any law, any other person related, whether by blood or marriage, to the MUNICIPAL CORPORATION JAGDALPUR servant or to the MUNICIPAL CORPORATION JAGDALPUR servant's wife or husband and wholly dependent upon MUNICIPAL CORPORATION JAGDALPUR Servant.

(xi) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly with any employee of the BUYER, and if he does so, the BUYER shall be entitled forth with to rescind the contract and all other contracts with the BIDDER The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER However, the BIDDER can approach the Monitor (s) appointed for the purpose of this Pact.

8. FALL CLAUSE

The BIDDER undertakes that if has not supplied /is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Department of the MUNICIPAL CORPORATION JAGDALPUR or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Department of the MUNICIPAL CORPORATION JAGDALPUR or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

9. INDEPENDENT MONITORS

The BUYER will appoint Independent Monitors (hereinafter referred to as Monitors) for this Pact.

The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

The Monitors shall not be subject to instructions by the representatives of the Parties and perform their functions neutrally and independently.

Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement including minutes of meetings. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.

As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.

The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the BUYER/BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

10. FACILITATION OF INVESTIGATION

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information of the relevant documents and shall extend all possible help for the purpose of such examination.

11. LAW AND PLACE OF JURISDICTION

This Pact is subject to Indian Law, the place of performance and jurisdiction shall be the seat of the BUYER.

12. OTHER LEGAL ACTIONS

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any other law in force relating to any civil or criminal proceedings.

13. VALIDITY

The validity of this Integrity Pact shall be from the date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

If one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In such case, the parties will strive to come to an agreement to their original intentions.

The parties hereby sign this Integrity Pact aton.....

BUYER

BIDDER

Name of the Officer
Designation
Department /PSU

Witness

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

Witness

- 1)
-
- 2)
-

Annexure IV: Affidavit

I..... S/o.....

Aged..... years..... resident..... of.....

.....(address.....
.....)

(For and on behalf of), do

here by and herewith solemnly affirm / state on oath that: -

1. All documents and Information's furnished are correct in all respects to the best of my knowledge and belief
2. I have not suppressed or omitted any information as is required.
3. **I am/ we are neither black listed nor debarred by Govt. of India / Other State Govt. Departments/ Chhattisgarh State Govt. Departments/Urban Local Body.**
4. I hereby authorize the Nagar Nigam Officials to get all the documents verified from appropriate source(s).

Deponent

(.....
.....)

Authorized signatory / for and on behalf of
.....

(Affix Seal)

Verification

I..... S/o do here by affirm

that the contents stated in Para 1 to 4 above are true to the best of my knowledge and believe and are based on my / our record.

Verified that this date of 2020... at (Place).....

Deponent

Seal of attestation by a Public

Notary with date Authorized signature / for and on behalf of.....

Note :- Minimum Rs. 50 /- stamp paper required

Annexure V: CENTRALISED PROCEDURES OF THE GOVERNMENT OF CHHATTISGARH FOR SUSPENSION, DEMOTION, NON-RENEWAL & DE-REGISTRATION OF CONTRACTORS/FIRMS, 2014

-
- To Replace Appendix-1 to 4 of PWD Orders No. F5-8/19/2013/Nivida dated 5.8.2013
 - RFP to specifically refer to the aforesaid orders as amended
-

1. Nomenclature and Coming into Force

These Procedures shall be called "Centralized Procedures of the Government of Chhattisgarh for Suspension, Demotion, Non-Renewal and De-Registration of Contractors/Firms, 2014".

These Procedures shall come into force with effect from the date of consequential changes made to previous orders PWD No. F5-8/19/2013/Nivida dated 5.8.2013 on the subject.

2. Scope of Procedures

These Procedures lay down substantive and procedural aspects for demotion, non-renewal and de-registration (including suspension) of registered contractors/firms, including the consequences of such demotion, non-renewal, de-registration and suspension, in relation to contracts covered by these procedures.

These procedures shall apply to all contracts awarded by state agencies participating in the unified registration system, for e-registration through the website of the state public works department, and the said participating agencies shall include their constituent, attached and subordinate offices, whether referred to as a "Department", "Wing", "Organization", "Board" or similar nomenclature in common usage.

For the purposes of these procedures, "contracts" shall mean contracts or agreements under the works department manual entered into by the state agencies to which these procedures are applicable (hereinafter referred to as "state agencies")

These procedures shall not apply to debarment and suspension (or blacklisting, banning etc., by whatever name called) by states public sector enterprises, registered societies, autonomous institutes or similar separate legal entities, even if functioning under the administrative control of the Government of Chhattisgarh.

These procedures shall be incorporated by specific reference in contracts entered into by relevant agencies with from the date of notification of these procedures. All prior contracts (i.e. cases where the last date of filling a proposal, tender, quotation, bid etc. by whatever name called, predates the date of notification of these procedures, including contracts entered into before the date of notification of these procedures), shall however continue to be governed by the specific clauses of contract and instructions issued by the government of Chhattisgarh in force prior to notification of these procedures. For cases where the last date of filling a proposal, tender, quotation, bid etc., by whatever name called has already been scheduled and notification, and is subsequent to the date of notification of these procedures, an addendum to the request for

proposal (or Notice Inviting Tender, request for quotation, Invitation To Bid etc. by whatever name called) shall be issued by procuring officials, to ensure that acceptance of the terms and conditions prescribed under these procedures is obtained from all participating bidders.

"Entities" shall include individuals, as well as companies, trusts, societies or other associations of individuals with whom the state agencies have entered into contracts, or intend to enter into contracts, or could enter into contracts.

3. Cross-Debarment

Any order for demotion, non-renewal, suspension or de-registration issued by the designed Authority provided for under these Procedures shall have immediate effect as provided for under these Procedures shall have immediate effect as provided for under these Procedures shall have immediate effect as provided herein on contracts awarded and processed by the state agencies.

Any order for suspension, banning, demotion, blacklisting, de-registration or debarment issued by any authority in the Government of India or other State Government, or by any other entity not covered under the scope of these Procedures, shall not affect the eligibility of contractors or firms participation in the Unified Registration system, Unless the Designated Authority under these Procedures has issued its own order of suspension, non-renewal, demotion or de-registration, pursuant to or consequent or based upon the order issued by such an external agency, after satisfying itself that the order of suspension, non-renewal, demotion or de-registration against such a contractor/firm is appropriate and warranted in order to protect government or public interest in the facts and circumstances of the specific case.

4. Satisfaction of Designated Authority

Proceedings for suspension, demotion, or de-registration shall be in the nature of summary administrative decisions by the Designated Authority, aimed at protecting government of public interest.

Accordingly, the Designated Authority shall exercise due diligence normally expected of an administrative action for issue of an order of suspension, non-renewal, demotion or de-registration against a contractor/firm is appropriate and warranted in order to protect government of public interest in the facts and circumstances of the specific case.

5. Designated Authorities

The authority competent to issue and order of suspension non-renewal demotion or de-registration, including a notice or proposed demotion or de-registration shall be the authority so specified in the unified Registration system.

The orders of the Designated Authority shall have effect across contracts awarded and processed by the state agencies.

The Designated Authority shall perform his/her function independently of any superior officers, Board, Council or Committees in the Government. Normally therefore, there should not be any separate of prior requirement of bringing any case for proposed suspension, no-renewal, demotion or deregistration before any committee by any state agency, the Designated Authority shall recuse himself/herself from the deliberations or decisions of such board etc. in order to maintain his/her independence in decision making.

The Designate Authority shall be free and be empowered to consult any appropriate Department that he/she may deem appropriate (such as legal or finance divisions or departments) before arriving at a

decision for suspension non-renewal, demotion or de-registration, However the advice, recommendation or comments of any such Department shall neither be binding upon the designated Authority and nor shall it form the sole basis of the decision of the Designated Authority.

To the extent practicable the designated Authority shall decide upon a case within thirty days of the proposal being submitted to it for de-registration, non-renewal, suspension or demotion, provided he/she has received all documents that he/she deems relevant.

6. Appeals

Appeals against orders of suspension and final orders for demotion, non-renewal or de-registration issued by the designated Authority shall lie only with the Appellate Authority specified in the Unified Registration system. The Appellate Authority shall discharge his/her functions independently of any superior officers, Boards, Councils or Committees in the Government. No appeals shall lie against a notice of proposed demotion, non-renewal or de-registration.

Therefore, normally there should not be any separate or prior requirement of bringing any case for proposed suspension, non-renewal, demotion or de-registration before any Board, Council or Committee. However, if any case is brought before any Board, Council or Committee, any member of the Appellate Authority represented on such boards etc shall recuse himself/herself from the deliberations or decisions of such Board etc in order to maintain his/her independence in decision-making.

The Appellate Authority shall be free and be empowered to consult any Department that it deems appropriate (such as legal or finance divisions or Department) before deciding an appeal. However, the advice, recommendation or comments of any such Department shall neither be binding upon the Appellate Authority and nor shall it form the sole basis of the decision taken in appeal by the Appellate Authority.

The order of suspension, non-renewal, demotion or de-registration (including notice of proposed demotion or de-registration) of the Designated Authority, or the orders in appeal issued by the Appellate Authority, shall not form part of the scope of issues that can be brought before arbitrator(s) or arbitral tribunal, notwithstanding anything contained in an arbitration agreement in relation to Authority or the Appellate Authority shall not form part of the scope of issues that can be referred to the Independent External Monitor under any "Integrity Pact" signed by covered entities under these procedures, notwithstanding anything contained in the Integrity Pact.

To the extent practicable, the Appellate Authority shall decide an appeal within thirty days of the appeal being submitted to it against de-registration, non-renewal suspension or demotion. Provided he/she has received all documents that he/she deems relevant from the appellant and from respondents.

The Appellate Authority shall have the power to pend the processing of a contract for reasons it may deem fit.

7. Grounds for Demotion, Non –Renewal and De-Registration

The Designated, Authority may de-register a contractor/firm (referred herein below as "entity") for any sufficient reason, including any one or more of but not limited to the grounds listed below;

- (i) Conviction for, or the commencement of an investigation under the criminal Procedure code, 1973 or the filing of a charge sheet by an investigative agency in a criminal court of competent jurisdiction, or a civil judgment in respect of commission or alleged commission of fraud or an offence under any law in force in India or elsewhere, either directly or indirectly, by an entity, its proprietor, employee, partner, agent or representative in connection with (a) obtaining, or (b) attempting to obtain, or (c) performing a government contract or agreement:

Provided that in case of commencement of criminal investigation this clauses shall constitute a valid ground for de-registration only if the said fraud or offence is in relation to a contract or agreement entered into with agent representative or any other intermediary in relation to any contract to which these procedures apply;

- (l) Engagement of any individual or entity to intercede, facilitates, or recommends the award of a contract, excluding legal representatives employed directly by the entity;
- (m) Collusion to impair transparency, fairness or progress of the contracting process;
- (n) Complaining without full and verifiable facts; or
- (o) Instigating or causing any third person to commit any of the above.

7.3 A designated Authority may not renew the registration of a contractor/ firm for any sufficient reason, including any one or more of, but not limited to, the grounds listed below:

- (i) Failure to meet any volume of work criterion specified from time to time under the unified registration system as published on the website for the system, for the particular class of registration for the last three financial years ending with the financial year immediately prior to the date of submission of proposal for non-renewal to the Designated Authority; and
- (ii) Any of the grounds specified in paragraphs 7.1 or 7.2 above.

8. Grounds for Suspension

Suspension of an entity can be ordered by the Designated Authority, where it determines that continuation of dealing is not considered desirable in government or public interest, pending completion of proceeding into allegation or facts related to any of the grounds enumerated in paragraphs 7.1 and 7.2 above, and where it is considered necessary to forthwith order such discontinuation without prior notice of suspension to the entity.

In all such cases of suspension it shall be incumbent upon the Designated Authority to put the suspended entity on notice and to grant an early opportunity of post-decisional hearing.

9. Effect of Suspension, Non-renewal, De-Registration and Demotion

A final order of de-registration or non-renewal in respect of a contractor/firm shall result in immediate ineligibility of the contractor/firm and its affiliates for all classes of contracts (or for classes of contracts higher than the resultant demoted class in cases of demotion) from participating in future bid or contracts or agreements for a minimum period of two years and a maximum period of ten years with effect from the date of demotion or non-renewal or de-registration, including ineligibility from evaluation in ongoing cases where a contract or agreement is yet to be finally signed such ineligibility shall be without compensation from or liability to the state agency similarly, a de-registration or non-renewal contractor/firm and its

affiliates shall be ineligible for award of a contract, including receipt of an order under a rate contract, and for entering into any contract covered by these procedures, in cases where an order for de-registration or non-renewal has come into effect before the signing of such contract.

Where the de-registration, non-renewed, demoted or suspended contractor/firm has already emerged as the most preferred bidder using price and/or technical criteria as specified in the request for proposal (or Notice Inviting Tender or Invitation To Bid or request for Quotation by whatever name called), the procurement process shall be continued beating the de-registered, suspended demoted or non-renewed contractor/firm as ineligible, notwithstanding any appeal, unless the appellate authority has pended the procurement process.

A de-registration or non-renewed contractor/firm shall not be eligible to receive Request for proposal (on Notice Inviting Tender or Invitation to Bid or Request for Quotation etc. by whatever name called) from the state agencies in cases of limited and/or restricted tendering where such issue is provided for under tender procedures.

In any case where the entity is suspended, de-registered, non-renewed or demoted subsequent to such issue, it shall not be considered eligible for the purposes of any technical, field or commercial evolution or for award or signing of contract undertaken in pursuance to the Request for proposal (or Notice Inviting Tender or Request for Quotation or Invitation To Bid etc. by whatever name called).

Mere initiation of a criminal or other investigation or inquiry by any authority in the Government of India or other state Governments, or by any other entity not covered under the scope of these procedures or the mere filling of a charge sheet or any other formal proceeding against an entity by an enforcement agency exercising power of a court, shall not render an contractor/firm ineligible/ unless the designated authority under these procedures has issued its own order of suspension, non-renewal demotion or de-registration, pursuant to or consequent or based upon the order issued by such an external agency, after satisfying itself that the order of suspension, non-renewal, demotion or de-registration against such a contractor/firm is appropriate and warranted in order to protect government or public interest in the facts and circumstances of the case, similarly, a notice of proposed demotion or de-registration shall not render a contractor/firm ineligible, unless a final order for demotion, non-renewal has been issued by the Designated Authority under these procedures prior to conclusion of the contract.

The above consequences on ineligibility of a contractor/firm shall be in addition to any criminal liability that may arise out of any laws in force in India, and also in addition to any other pecuniary consequences and civil liabilities, including penalties, costs or liabilities as may be imposed by procuring officials, as well as forfeiture of Earnest Money Deposits, encashment of bank guarantees and performance bonds, risk and cost purchase, recovery of certain sums from the erring entity, and liability for compensation for losses or damages as may be provided for under contract or agreement, as may be provided for in the relevant Notice Inviting Tender, Request For Proposal Request For Quotation, Invitation to Bid and any such documents.

Not withes tending anything containred in the contract, procuring officers shall not renew, expand or extend current contracts with suspended their duration or modify them to the advantage of a contractor/firm, unless prior approval of the authority one level above the authority competent to approve the same under the contract is taken for such renewal, modification or extension:

Provided further that in respect of de-registered contractors/firms, the level of prior approval shall be the state Government.

Termination of contracts, if considered appropriate by procuring officials, shall follow procedures as provided for under the contract and other relevant instructions of the Government.

10. Notice of Proposal for demotion of De-Registration (and Order of Suspension or non-Renewal)

Demotion of de-registration shall be initiated by the Designated Authority upon receipt of information or proposal by putting a contractor/firm on notice:

- (i) That demotion or de-registration is being contemplated;
- (ii) Of the reason for proposed demotion or de-registration relied upon under paragraph 7 of these Procedures for the proposed demotion or de-registration;
- (iii) Stating the period of demotion of de-registration and the proposed start and end dates for the period of demotion and de-registration;
- (iv) That, within fifteen days of receipt of the notice, the contractor /firm may information and arguments in connection contesting the proposed demotion/de-registration.

An order for suspension or non-renewal by the Designated Authority shall afford an opportunity for a post - decisional hearing to the suspended contractor/ firm, including therein:

- (i) The fact that suspension had been ordered forthwith;
- (ii) Of the reasons for suspension or non-renewal- relied upon under paragraph 7 read with paragraph 8 of these procedures;
- (iii) Stating the period of suspension or non-renewal with proposed effective end dates;
- (iv) Advising that suspension or non-renewal is effective only in respect of state agencies
- (v) That, within fifteen days of receipt of the notice, the entity may submit in writing, either in person or through a representative, information and arguments in connection contesting the suspension or non-renewal.

11. Final Order for Demotion/De-Registration

if the Designated Authority decides to issue a final order of demotion or de-registration, whether after the issue of an initial order of suspension or non-renewal or otherwise after issue of notice of proposed demotion or de-registration, the contractor/firm concerned shall expeditiously be given notice of such final order.

- (i) Referring to the notice(s) of the order of suspension or non-renewal, if any and notice of proposed demotion or de-registration.

(ii) Specifying the reason for demotion or de-registration; and

(iii) Starting the period of demotion or de-registration including effective start and end dates.

if pursuant to the notice of demotion or de-registration, final orders of demotion or de-registration are not imposed, the Designated Authority shall promptly notify the contractor/firm by speed post or by registered post (acknowledgment due), in addition to the manner of publication specified under these procedures.

Upon completion of the period of de-registration or demotion, a de-registration contractor/firm that has been de-registration or demoted, as well as a contractor/firm whose registration has not been renewed under these.

OFFICE OF THE MUNICIPAL CORPORATION, JAGDALPUR

Preface

Planning of Bio-mining Process for dump site reclamation / Bio-mining is the most preferred option for existing dumping site at Jagdalpur. The existing dump site is located at Kangoli, the total area of dumping Ground is more than 6 acres as per survey made by DRA consultant Ltd. At the dumping site the waste is scattered, the total area of dumping site with 6.4 acre land and height of 1.5m.

The existing total waste quantity at the dump site is estimated to be 28000 Ton for additional 12 month total waste that shall be generated is estimated to be 44000 Ton. The present bio-mining / dump reclamation is design for total 72 Tons @ 1.2/cubic meter total in cubical content 60000 Cubic meter.

Here we would like to suggest that day to day coming waste to be stopped at dump site and shall be taken to SLRM center constructed at dump site for segregation process.

Bio-mining process for 60000 Cubic meter is design for 6 month that is 150 working day with 12 hour of working shift its calculation source that if this bio-mining to be completed in period of 6 month then processing target should be 400 cubic meter per day..

Hence the process of 400 cubic meter of wastes 75 sqm. Land will be cleared and therefore in 150 working days total kind of 11280 sqm . Can be cleared of which more than the area of dump material.

Municipal Corporation Jagdalpur
ABSTRACT SHEET FOR LEGACY WASTE REMEDIATION

SS	Equipment Required	Rate (Rs)	No. of units	(Qty)	Amount
1	Chainmounted Excavator (210) with driver. Fuel oil lubricant,	2,500	1	%	20,000
2	Front end loader/ bobcat tractor	300	1	%	2,400
3	Tyre mounted loader (JCB)	1,000	2	%	16,000
4	Hhya	850	2	%	13,000
	Tractor	300	4	%	9,000
	Tractor/Plough tractor	600	1	%	1,300
	Tranker(Pump mounted) 4500 litter capacity with 5HP diesel	100	1	%	800
5	Operation & Maintainance	10,000	1	1	10,000
9	Manpower	600	40	-	24,000
	Cost per day				1000
A	Cost for 150 days (A)				12,144
					2000
1	Tools and Plant(Packaging Material and segregation tools etc.	-	-	-	500,000
2	Screening/ trommel	1,000,000	1	-	1,000,000
3	Vibrator sieve	500,000	1	-	500,000
4	PPE	3,700	25	-	92,500
5	Bailing unit	-	-	-	600,000
6	Chemicals-sanitizer & bioculture	20	60,000	-	1,200,000
7	Weigh Machine	100,000	1	-	100,000
8	Patka machine	200,000	3	-	600,000
	GIS survey @ INR 2000/acre	2,000	6.5 acre	3 times	39,000
	TV camera	-	-	-	200,000
B	Machinery Cost (B)				4,831,500
					8000
1	Utilities/ Labour hut including toilet	-	-	-	650,000
2	Watchman room	-	-	-	100,000
3	External and internal electrification work	-	-	-	1,000,000
4	Water source/ tube well with hydrant	-	-	-	200,000
5	Working shed	300 sq.m	1	-	2,000,000
6	Leachate treatment unit	-	-	-	500,000
C	Infrastructure Cost (C)				4,450,000
					1000
	Total Cost (A+B+C) Including CAPEX				21,425,500
	SAY AMOUNT				214.25 LACS
	Cost of Bio-Remediation Per CUM				367.09

Handpy
SUB ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

CRK
ASSISTANT ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

AB
EXECUTIVE ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

आयुक्त
नगर पालिक निगम, जगदलपुर

MUNICIPAL CORPORATION JAGDALPUR

ABSTRACT SHEET FOR LEGACY WASTE REMEDIATION

S.NO	EQUIPMENT REQUIRED	RATES (RS.)	NO. OF UNITS	QNTY	AMOUNT
1	Chain Mounted Excavator (210) with driver , fuel,oil lubricant	2500	1	8	20000
2	Front End loader / Bob cat	300	1	8	2400
3	Tyre mounted loader (JCB)	1000	2	8	16000
4	Hyva	850	2	8	13600
5	Tractor	300	4	8	9600
6	Plough tractor	600	1	8	4800
7	Tanker (Pump mounted) 4500 liter capacity with 5Hp diesel	100	1	8	800
8	Operation and Maintainance	10,000	1	1	10000
9	Manpower	600	40	-	24000
	Cost per day				101200
A	Cost for 120 days (A)				12144000

1	Tools and Plants (Packaging Material and Segregation tools etc.	-	-	-	500000
2	Screening / trommel	1000000	1	-	1000000
3	Vibrator Seive	500000	1	-	500000
4	PPE	3700	25	-	92500
5	Bailing Unit	-	2	-	600000
6	Chemicals-Sanitizer & bioculture	20	60000	-	1200000
7	Weigh - Machine	100000	1	-	100000
8	Fatka machine	200000	3	-	600000
9	Gts Survey @ INR 2000/acre	2000	6.5	3	39000
10	CCTV Camera	-	-	-	200000
B	Machinery Cost (B)				4831500

1	Utilites / labour hut including toilet	-	-	-	650000
2	Watchman room	-	-	-	100000
3	External and Internal Electrification	-	-	-	1000000
4	Water source / tube well with hydrant	-	-	-	200000
5	Working shed	300 sq.m	1	-	2000000
6	Leachate Treatment Unit	-	-	-	500000
C	Infrastructure Cost (C)				4450000
	TOTAL				21425500
	SAY - 2.14 CRORE				

Jagdalpur Municipal Corporation Legacy Waste Remediation

Quantity of Waste 72000 tonne @1.2 ton/cu m
 Area of Dump Site 6.5 acre
 Height of windrow 2 mt
 Width of windrow (top layer) 2 mt
 Width of windrow (bottom layer) 4 mt
 Length of windrow 30 mt
 Volume of single windrow 180 cu.m
 Garbage Area 6.5 acre
 Volume of legacy waste 60000 cu.m
 No. of windrows required 333.3333 no.s
 No. of working days 150 days
 Volume of legacy waste processed per day 400 cu.m/day
 No. of windrows per day 3 no.s/day
 Area required for one windrow 272 sq.mt @30*4 mt * 4*4 mt
 Average processing days for a windrow 45 days
 Total area required 816 sq.mt/day

Color coding
 Rented supplies
 Placement
 Procurement
 Schedule of Rate/Lumpsum

Required	INR	No. of Hrs	Amount * No. of Hrs	No. of units	Total cost per day	Lump sum cost (INR)	Remark
Chain mounted Excavator (210)	2,500	8	20,000	1	20,000		To be rented (all cost inclusive)
Front end loader/ bobcat	300	8	2,400	1	2,400		To be rented (all cost inclusive)
Tyre mounted loader (JCB)	1,000	8	8,000	2	16,000		To be rented (all cost inclusive)
Hyva	850	8	6,800	2	13,600		To be rented (all cost inclusive)
Tractor	300	8	2,400	4	9,600		To be rented (all cost inclusive)
Cultivator	600	8	4,800	1	4,800		To be rented (all cost inclusive)
Tanker(Pump mounted)	100	8	800	1	800		To be rented (all cost inclusive)
Manpower	600			40	24,000		40 manpower @ INR 600
Tools and Plant	-	-	-	-	-	500,000	packing material, segregation tools
Screening	-	-	-	-	-	1,000,000	Screen size >150mm, 60-100mm, 30-50 mm, <30 mm, 2-4 mm, conveyor belt
Vibrator Sieve	-	-	-	-	-	500,000	
PPE	3,700	-	-	25	-	92,500	as per the SUDA approved cost
Baling unit	-	-	-	-	-	-	Single bar baling machine (Available at working site)
sanitizer & bioculture	-	-	-	-	-	1,200,000	Approx. INR 20 per cu m
Labour/Store room						208,454	Toilet block
External and Internal electrification						444,600	Rest room, Office, Store room
Water source/ Tube well						1,000,000	Commissioning and Installation
Working Shed	300 sq.m			1		100,000	Including pump, pipe and water supply
Treatment Unit (LUMPSU)						2,000,000	@ 10mt x 30 mt, as per steel and tubular shed including store room, washing room etc.
Survey @ INR 2000/acre	2,000					500,000	Oxidation pond with treatment facilities (With Mud Pump /Aerator/Tank/Chemicals)
						39,000	Three times station survey at the beginning, in between and at the end
						200,000	Including pole wiring, consol'd box, 1-TB harddisk/monitor, commissioning and installation


 SUB ENGINEER
 MUNICIPAL CORPORATION
 JAGDALPUR


 ASSISTANT ENGINEER
 MUNICIPAL CORPORATION
 JAGDALPUR


 EXECUTIVE ENGINEER
 MUNICIPAL CORPORATION
 JAGDALPUR


जगदलपुर
 नगर पालिक निगम, जगदलपुर


**PROPOSED CONSTRUCTION OF SHED FOR OFFICE, REST ROOM & TOILET
ETC., DISTRICT - JAGDALPUR [C.G.]
SUMMARY OF ESTIMATE**


S.No.	Particulars	Amount (In Rs.)
Development works		
1	utilities/labour hut including toilet	Rs. 650000.00
2	watchman room	Rs. 100000.00
3	External & internal electrification	Rs. 1000000.00
4	watersource/tubewell	Rs. 200000.00
5	working shed	Rs. 2000000.00
6	leachate treatment unit	Rs. 500000.00
Sub Total=		4450000.00
Or say		4450000.00

Schedule of Rates adopted :

(i) PWD SOR For Building works 2015, In Force from 01.01.2015.


Sub Engineer
Municipal Corporation
Jagdalpur (C.G.)


Assistant Engineer
Nagar Palik Nigam
Jagdalpur


Executive Engineer
Municipal Corporation
Jagdalpur (C.G.)


आयुक्त
नगर पालिक निगम, जगदलपुर

UTILITIES/LABOUR HUT INCLUDING TOILET

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated of pits.In all types of soil area), including dressing and leveling.								
	(PWD BUILDING SOR NO. 1.1/9)								
	In all types of soils.								
	(PWD BUILDING SOR NO. 1.1.1/9)								
	For column	4	1.5	1.5	1.8	16.20			
	Below ground beam	1	12.5	0.4	0.2	1.00			
						17.20	cum	185.00	3182.00
2	Extra for every additional lift of 1.5 m or part thereof.								
	(PWD BUILDING SOR NO. 1.6/ 10)								
	All types of soil								
	(PWD BUILDING SOR NO. 1.6.1/ 10)								
	For column	4	1.5	1.5	0.3	2.70			
						2.70	CUM	26.50	71.55
3	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	(PWD BUILDING SOR NO. 3.1/22)								
	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)								
	(PWD BUILDING SOR NO. 3.1.2/22)								
	For column	4	1.5	1.5	0.1	0.90			
	Below ground beam	1	12.5	0.4	0.1	0.50			
						1.40	cum	2659.00	3722.60

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
4	1:3:6 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
	(PWD BUILDING SOR NO. 3.1.3/22)								
		1	2.25	3.60	0.10	0.81			
						0.81	cum	2970.00	2405.70
5	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work.								
	(PWD BUILDING SOR NO. 3.2/23)								
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	(PWD BUILDING SOR NO. 3.2.1/23)								
	For column footing	4	1.30	1.30	0.35	2.37			
	Ground beam	1	12.50	0.20	0.30	0.75			
	100 mm outer wall	1	3.45	0.1	0.20	0.07			
	For column up to ngl	4	0.20	0.20	1.35	0.22			
	For column up ngl to slab top level(3.2m)	4	0.20	0.20	3.15	0.50			
	Slab level beam	1	12.50	0.20	0.18	0.44			
	Slab	1	2.40	4.00	0.13	1.20			
	Ventilator lintel	2	1.40	0.20	0.15	0.08			
	Ventilator chajja	2	1.40	0.60	0.10	0.17			
	opening lintel	1	1.20	0.20	0.15	0.04			
	opening chajja	1	1.20	0.60	0.10	0.07			
	100mm thick wall	1	3.45	0.10	0.15	0.05			
	molding	1	12.50	0.15	0.25	0.47			
						6.42	cum	4163.00	26738.95

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
6	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for:								
	(PWD BUILDING SOR NO. 2.1/16)								
	Foundations, footings base of columns and plinth beam in any shape and size.								
	(PWD BUILDING SOR NO. 2.1.1/16)								
	For column footing(side)	16	1.30		0.35	7.28			
	Ground beam(side)	2	12.50		0.30	7.50			
	100 mm outer wall	2	3.45		0.30	2.07			
	For column up to ngl	4	0.8		1.35	4.32			
						21.17	Sqm.	139.00	2942.63
	Columns pillars piers and likes-rectangular or square in shape								
	(PWD BUILDING SOR NO. 2.1.5/16)								
	For column up ngl to wall top level(3.35m high)	4	0.8		3.2	10.24			
						10.24	Sqm.	297.00	3041.28
	Beams, lintels, cantilevers & walls								
	(PWD BUILDING SOR NO. 2.1.8/16)								
	Slab level beam	2	12.50		0.18	4.38			
	Ventilator lintel	4	1.40		0.15	0.84			
	bottom	2	1.20		0.20	0.48			
	opening lintel	2	1.20		0.15	0.36			
	bottom	1	1.20		0.20	0.24			
	100mm thick wall	2	3.45		0.15	1.04			
	bottom	2	0.75		0.10	0.15			
						7.48	Sqm.	202.00	1510.96
	Edge of slab breaks in floor and walls upto 200mm.								
	(PWD BUILDING SOR NO. 2.1.4/16)								
	Slab	2	2.4			4.80			
		2	4.00			8.00			
						12.80	M	34.00	435.20
	Suspended floors roofs access platform balconies (plain surfaces) and shelves (cast in situ)								
	(PWD BUILDING SOR NO. 2.1.7/16)								
	Slab(bottom)	1	2.4	4		9.60			

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
	Weather shade, chhajja, cornices and moldings (PWD BUILDING SOR NO. 2.1.13/17)					9.60	Sqm.	235.00	2256.00
	for box moulding								
	Ventilator chajja	2	1.4	0.6		1.68			
	side	2	2.6	0.1		0.52			
	opening chajja	1	1.2	0.6		0.72			
		1	2.4	0.1		0.24			
	molding	1	12.50	1		12.5			
						15.66	sqm	294.00	4604.04
7	Providing and placing in position reinforcement for R.C.C. work, including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire all complete: (PWD BUILDING SOR NO. 3.12/24)								
	Thermo- Mechanically treated bars (PWD BUILDING SOR NO. 3.12.1/24)	1	6.4	80	Kg/Cum	513.84	Kg.	54.50	28004.28

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
8	Brick work with modular well burnt clay bricks of crushing strength not than 35kg/sqcm and water absorption not more than 20% in foundation and plinth in: (PWD BUILDING SOR NO. 7.1/44) Cement Mortar 1:6 (1 cement : 6 coarse sand) (PWD BUILDING SOR NO. 7.1.4/44)								
	as per length ground beam	1	12.5	0.2	0.30	0.75			
	wall	2	2.4	0.2	3.35	3.22			
		2	4	0.2	3.35	5.36			
	deduction of opning(-)	2	1.2	0.2	0.60	-0.29			
	opning	1	1.2	0.2	2.1	-0.50			
						8.53	Cum	3821.00	32608.41
9	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (PWD BUILDING SOR NO. 7.6/45)								
	wall	2	2.40	0.20	3.35	3.22			
		2	4.00	0.20	3.35	5.36			
	deduction of opning(-)	2	1.2	0.2	0.60	-0.29			
	opning	1	1.2	0.2	2.1	-0.50			
						7.78	Cum	121.00	941.86
10	Half brick thick (9cm) brick masonry with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in superstructure above plinth level upto floor five level. (PWD BUILDING SOR NO. 7.9/45) Cement Mortar 1:3 (1 cement : 3 coarse sand) (PWD BUILDING SOR NO. 7.9.1/45)								
	100mm thick wall	1	2.25		2.10	4.73			
	100mm thick wall	1	1.20		2.10	2.52			
	deduction of opning(-)door	2	0.75		2.10	-3.15			
						4.10	cum	448.00	1834.56
11	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry. (PWD BUILDING SOR NO. 7.20/46)								
	TOTAL OF HALF BRICK THICK (9CM) BRICK					4.10	SQM	62.50	255.94

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
12	Filling from available excavated stuff (Excluding rock) in trenches plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M. (PWD BUILDING SOR NO. 1.17/11 (80% of excavated stuff)					13.76	Cum	65.00	894.40
13	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc.complete. (PWD BUILDING SOR NO. 1.18/ 11) for floor ara	1	2.25	3.60	0.45	3.65	cum	371.00	1352.30
14	Providing and making 6mm thick cement plaster of mix: (PWD BUILDING SOR NO. 11.1/103) in Cement mortar 1:3 (1 cement :3 fine sand) (PWD BUILDING SOR NO. 11.1.1/103)								
	Slab(bottom)	1	2.4	4		9.60			
	Ventilator chajja(bottom)	2	1.4	0.6		1.68			
	opening chajja(bottom)	1	1.2	0.6		0.72			
	molding	1	12.8	1.00		12.80			
						24.80	Sqm	93.00	2306.40

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
15	Providing and making 12mm thick cement plaster of mix: (PWD BUILDING SOR NO. 11.2/103) In Cement mortar 1:4(1 cement :4 fine sand) (PWD BUILDING SOR NO. 11.2.2/103)								
	wall	2	2.40		3.35	16.08			
		2	4.00		3.35	26.80			
	deduction of opning(-)	2	1.2		0.60	-1.44			
	opning	1	1		2.1	-2.10			
	100mm thick wall	2	2.25		2.40	10.80			
	100mm thick wall	2	1.20		2.40	5.76			
	deduction of opning(-)door	2	0.75		2.10	-3.15			
						52.75	Sqm	103.00	5433.25
	15mm thick cement plaster on the rough side of single or half brick wall of mix: (PWD BUILDING SOR NO. 11.3/103) In Cement mortar 1:6(1 cement :6 fine sand) (PWD BUILDING SOR NO. 11.3.4/103)								
	outer wall	2	2.4	4	3.35	64.32			
		2	1.40	0.60	3.35	5.63			
						69.95	Sqm	107.00	7484.44
16	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position. (PWD BUILDING SOR NO. 8.1/54) (i) Sal, bijasal, bentek, chair, haldu (PWD BUILDING SOR NO. 8.1.2/54)								
	for ventilater	6	0.60	0.075	0.125	0.03			
		4	1.20	0.075	0.125	0.05			
	door	2	2.10	0.075	0.125	0.04			
		1	1.00	0.075	0.125	0.01			
						0.13	cum	61051.00	7784.00
17	Providing and fixing flush door shutters, exterior grade, decorative type, core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. (PWD BUILDING SOR NO. 8.12/56)								

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
	(PWD BUILDING SOR NO. 8.112.2/68)								
	DOOR	1	2			2.00			
						2.00	each	127.00	254.00
23	Providing and fixing powder coated M.S. door latch with necessary iron screws								
	(PWD BUILDING SOR NO. 8.113./68)								
	(ii) 250x20x16 mm								
	(PWD BUILDING SOR NO. 8.113.2/68)								
	DOOR	1	1			1.00			
						1.00	each	41.00	41.00
24	Providing and fixing powder coated M.S. tower bolts (Barrel type) with necessary iron screws.								
	(PWD BUILDING SOR NO. 8.115/68)								
	(i) 250x10 mm								
	(PWD BUILDING SOR NO. 8.115.1/68)								
	VENTILATER	2	1			2.00			
	DOOR	1	2			2.00			
						4.00	each	42.50	170.00
25	Providing and fixing powder coated M.S. handles with necessary iron screws:								
	(PWD BUILDING SOR NO. 8.116/68)								
	(i) 125 mm								
	(PWD BUILDING SOR NO. 8.116.1/68)								
	VENTILATER	2	1			2.00			
	DOOR	1	2			2.00			
						4.00	each	61.50	246.00

(ii) Construction of Toilet Block

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE (Rs)	AMOUNT (Rs)
26	Providing and fixing factory made P.V.C door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nose of 150mm long brackets of 15x15mm M.S. square tube the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame of 65/100mm size complete as per manufactures specification and direction of Engineer -in-charge.								
(PWD BUILDING SOR NO. 8.151/73)						9.90	metre	346.00	3425.40
27	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per Manufacturer's specification including 3 nos ISI marked stainless steel hinges of size 100x58x1.9 mm complete. (for W.C. and bathroom door shutter).								
(PWD BUILDING SOR NO. 8.152/74)									
PVC door shutter									

UTILITIES/LABOUR HUT INCLUDING TOILET

DETAILED ESTIMATE OF SHED(9MX5M)

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	ITEM	No.	L	B	D/H	QUANTITY	UNIT	RATE (Rs.)	AMOUNT
1	Excavation for all types and sizes of foundations trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at teats 5m away from the excavated area), including dressing and leveling of pits.								
	(PWD BUILDING SOR NO. 1.1/9)								
(A)	(i) In all types of soil up to 1.50m lift								
	(PWD BUILDING SOR NO. 1.1.1/9)								
		C1	8	1.50	1.50	1.60	28.80		
						28.80	cum	185.00	5328.00
	(ii) Extra for every additional lift of 1.5 m or part thereof.								
	(PWD BUILDING SOR NO. 1.6/10)								
	All types of soils				(EX.DEPTH-1.5)				
	(PWD BUILDING SOR NO. 1.6.1/10)								
		C1	8	1.50	1.50	0.10	1.80		
						1.80	cum	26.50	47.70
2	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc.complete.								
	(PWD BUILDING SOR NO. 1.18/ 11)								
		C1	8	1.50	1.50	1.60	28.80		
	Deduction of p.cc					-1.80			
	Deduction of R.cc					-5.23			
	Filling in plinth area					13.50			
		SHED	1	9.00	5.00	0.30	35.27	cum	371.00
									13084.43

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

		C1	8	0.35	0.35	3.00	2.94			
		GROUND BEAM								
		BEAM	2	9.00	0.20	0.30	1.08			
		....DO....	2	5.00	0.20	0.30	0.60			
								10.146	Cum.	4163.00 42237.80
5	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (PWD BUILDING SOR NO.3.4/23)							2.940	Cum.	97.50 286.65
6	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: (PWD BUILDING SOR NO. 2.1/16)									
	(i) Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level. (PWD BUILDING SOR NO. 2.1.1/16)									
					(L+B)X2					
		Footing F1/C1	8		5.20	0.30	12.48			
		column up to ngl								
		C1	6	1.40		1.20	10.08			
		column up to ngl to plinth lvl								
		C1	6	1.40		0.30	2.52			
		GROUND BEAM								
		LONGER SPAN								
		BEAM	4	9.00		0.30	10.80			
		....DO....	4	5.00		0.30	6.00			
								41.88	sqm	139.00 5821.32
	Columns, Pillars, Piers and likes- rectangular or square in shape (PWD BUILDING SOR NO. 2.1.5/16)									
		column up to Wall top lvl								
		C1	8	1.40		3.00	33.60			
								33.60	sqm	297.00 9979.20

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

7	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	(PWD BUILDING SOR NO. 3.12/24)								
	Thermo-Mechanically treated bars FE 415	1	10.15	75.00	Kg./Cum.	760.95	Kg.	54.50	41471.78
	(PWD BUILDING SOR NO. 3.12.1/24)								
8	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	(PWD BUILDING SOR NO. 7.5/45)								
	(ii) Cement Mortar 1:5 (1 cement : 5 coarse sand)								
	(PWD BUILDING SOR NO. 7.5.3/45)								
	below ground beam								
	Wall	2	15.00	0.20	2.65	15.90			
	...do....	2	5.00	0.20	2.65	5.30			
	Deduction of opening w1	4	1.80	0.20	1.50	-2.16			
	D1	2	1.20	0.20	2.10	-1.01			
						18.03	cum	3350.00	60407.20
9	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(PWD BUILDING SOR NO. 7.6/45)					18.03	cum	121.00	2181.87
8	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.								
	(PWD BUILDING SOR NO. 8.1/54)								
	(ii) Sal, bijasal, benteak, chair, haldu								
	(PWD BUILDING SOR NO. 8.1.2/54)								
	door	2	2.10	0.075	0.125	0.04			
		4	1.20	0.075	0.125	0.05			
						0.08	cum	61051.00	5151.18

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

9	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of black board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	(PWD BUILDING SOR NO. 8.13/56)								
	40 mm. thick (single leaf)								
	(PWD BUILDING SOR NO. 8.13.1/56)								
	DOOR	2	1.20	2.100		5.04			
						5.04	sqm	1601.00	8069.04
10	Extra for cutting rebate in flush door shutter (total area of door shutter to be measured).								
	(PWD BUILDING SOR NO. 8.21/57)								
						5.04	SQM	46.00	231.84
11	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
	(PWD BUILDING SOR NO. 9.15/81)								
	Window	4	1.80	1.500		10.80			
						10.80			
			10.80	8.5	Kg/Sqm.	91.80	kg	67.50	6196.50
12	Providing and fixing M.S. bright finished or black enameled Parliamentary hinges with necessary iron screws:								
	(PWD BUILDING SOR NO. 8.95/66)								
	125x65x2.12 mm								
	(PWD BUILDING SOR NO. 8.95.2/66)								
	DOOR	2	3			6.00			
						6.00	SQM	67.50	405.00

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

13	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:								
	(PWD BUILDING SOR NO. 8.99/73)								
	(ii) 250x16 mm								
	(PWD BUILDING SOR NO. 8.99.2/73)								
		DOOR	2	2		4.00			
						4.00	each	72.50	290.00
14	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:								
	(PWD BUILDING SOR NO. 8.100./66)								
	(ii) 250x20x16 mm								
	(PWD BUILDING SOR NO. 8.100.2/66)								
		DOOR	2	1		2.00			
						2.00	each	50.50	101.00
15	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:								
	(PWD BUILDING SOR NO. 8.102/66)								
	(i) 250 mm								
	(PWD BUILDING SOR NO. 8.122.1/66)								
		DOOR	2	2		4.00			
						4.00	each	34.50	138.00
16	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:								
	(PWD BUILDING SOR NO. 8.103/67)								
	(i) 125 mm								
	(PWD BUILDING SOR NO. 8.123.1/67)								
		DOOR	2	2		4.00			
						4.00	each	51.00	204.00

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

17	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately: 24.50							
	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).							
	(PWD BUILDING SOR 9.47.2/85)	10.80		8KG/SQM 8	86.40			
					86.40 KG		338.00	29,203.20
18	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4 mm thickness (PWD BUILDING SOR NO. 9.51.1/85)							
	#REF!	4	1.80	1.50	10.80			
					10.80	sqm	611.00	6,598.80
19	(ii) Providing and making 12mm thick cement plaster of mix: (PWD BUILDING SOR NO. 11.2.2/103)							

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

	In Cement mortar 1:4(1 cement :4 fine sand)								
	Above plinth								
	Wall	2	12.00		3.00	72.00			
	....do....	2	5.00		3.00	30.00			
	Deduction of opening R.S(-)	2	2.80	0.50	2.40	-6.72			
						95.28	sqm	103.00	9813.84
	(iii) 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	(PWD BUILDING SOR NO. 11.3/103)								
	In Cement mortar 1:5 (1 cement :5 fine sand)								
	(PWD BUILDING SOR NO. 11.3.3/103)								
	2nd face of wall					95.28	sqm	113.00	10766.64
20	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.								
	(PWD BUILDING SOR NO. 12.3/111)								
	75 mm thick								
	(PWD BUILDING SOR NO. 12.3.3/111)								
	SHED	1	9.00	5.00		45.00			
						45.00	sqm	345.00	15525.00
21	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer								
	(PWD BUILDING SOR NO. 9.3/80)								
	Electric resistance or induction butt welded tubes Grade-250								
	(PWD BUILDING SOR NO. 9.3.1/80)								
	18kg/sqm	1	9.00	5.00	15.00	675.00			
						675.00	kg	88.50	59737.50

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

22	Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and								
	(PWD BUILDING SOR NO. 10.12/91)								
		1	10.00	6.00		60.00			
						60.00	sqm	693.00	41580.00
23	Finishing walls with water proofing cement paint of required shade to give an even shade.								
	(PWD BUILDING SOR NO. 14.14/133)								
	(i) On new work (Two or more coats applied @ 3.84 kg/10 sqm)								
	(PWD BUILDING SOR NO. 14.14.1/133)								
	Same as Item no.23(ii)					95.28	sqm	41.00	3906.48
24	Painting on new work (two or more coats) to give an even shade with:								
	(PWD BUILDING SOR NO. 14.22/134)								
	(i) Satin synthetic enamel paint								
	(PWD BUILDING SOR NO. 14.22.1/134)								
		grill	4	1.80	1.500	10.80			
						10.80	sqm	55.00	594.00
25	Distemping with acrylic washable distemper to give an even shade.								

DETAILED ESTIMATE OF SHED[9MX5M]

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

(PWD BUILDING SOR NO. 14.9/132)
 On new work (two or more coats)
 (PWD BUILDING SOR NO. 14.9.1/132)

				95.28	sqm	35.00	3370.64	
26	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS: specification in the required width with 10 mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.							
	(PWD BUILDING SOR NO. 11.41/107)	1	190.56	0.1	19.06	sqm	86.00	1638.82
	10% off plaster							
					TOTAL		Rt. 404257.66	

[Signature]

Sub Engineer
 Municipal Corporation
 Jagdalpur (C.G.)

[Signature]

Assistant Engineer
 Municipal Corporation
 Jagdalpur

[Signature]

Executive Engineer
 Municipal Corporation
 JAGDALPUR (C.G.)

PROPOSED CONSTRUCTION OF SHED FOR OFFICE, REST ROOM & TOILET ETC. ,DISTRICT –JAGDALPUR [CG.]

(iv) TUBE WELL, PUMP AND WATER SUPPLY PIPE LINE

ESTIMATE BASED ON : PWD BUILDING SOR IN FORCE FORM 01.01.2015 & ELECTRICAL WORKS Effected from 01.07.2015

S.NO	ITEM	QTY.	UNIT	RATE per unit	AMOUNT
1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.				
	(PWD BUILDING SOR NO. 21.1/198)				
	All types of soil				
	150 mm dia.	20	metre	339.00	6780.00
	(PWD BUILDING SOR NO. 21.1.1.3/198)				
	Rocky strata including Boulders.				
	150 mm dia.	115	metre	396.00	45540.00
	(PWD BUILDING SOR NO. 21.1.2.3/198)				
2	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge.				
	(PWD BUILDING SOR NO. 21.5/199)				
	150 mm nominal dia	21	metre	1304.00	27384.00
	(PWD BUILDING SOR NO. 21.5.3/199)				
3	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
	(PWD BUILDING SOR NO. 21.12/200)				

S.NO	ITEM	QTY.	UNIT	RATE per unit	AMOUNT
	150 mm clamp (PWD BUILDING SOR NO. 21.12.3/200)	1	each	1055.00	1055.00
4	Providing ISI Mark 32 mm dia G.I. (B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 (Part II) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments. (PWD BUILDING SOR NO. 21.16/201)	21	metre	275.00	5775.00
5	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6mm MS flat, connection with suitable submersible cable of standard length etc. as required. 3HP THREE PHASE (PWD ELECTRICAL SOR NO. 26.3.4/177)	1	Set	22669.00	22669.00

S.NO	ITEM	QTY.	UNIT	RATE per unit	AMOUNT
6	Supplying of following sizes 'B' class G.I. pipe with welded steel flange of suitable size at both the end of every pipe length, fixing with submersible pump and lowering with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required.				
	(PWD ELECTRICAL SOR NO. 26.4/177)				
	50 mm dia.	150	Metre	382.00	57300.00
	(PWD ELECTRICAL SOR NO. 26.4.4/177)				
7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required.				
	(PWD ELECTRICAL SOR NO. 26.7/178)				
	50 mm dia	2	Each	1048.00	2096.00
	(PWD ELECTRICAL SOR NO. 26.7.4/178)				
8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as required.				
	(PWD ELECTRICAL SOR NO. 26.8/178)				
	50 mm dia.	1	Each	1289.00	1289.00
	(PWD ELECTRICAL SOR NO. 26.8.4/178)				
9	Supply, installation, testing and commissioning of 10-15 HP 3 phase submersible motor starter cum control wall/floor mounted type made out of not less than 1.6mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 10/12.5/15 HP 3 phase automatic Star-delta starter with over load and no volt relay 1 No c) 32 A 'C' curve TPMCB 1 No. d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CTs and selector switch 1 set				
	(PWD ELECTRICAL SOR NO. 26.9/178)	1	Set	8450.00	8450.00

S.NO	ITEM	QTY.	UNIT	RATE per unit	AMOUNT
10	Supplying and fixing M.S. clamp 50 cm long made of 50mmx5mm thick M.S. Flat for holding the pipes and submerable pump set as required. (PWD ELECTRICAL SOR NO. 26.12/179)	1	Set	314.00	314.00
11	Supplying and fixing 300 mm dia 2 mm thick M.S. sheet cover with 3 cm edge in two part on tube well bore pipe as required. (PWD ELECTRICAL SOR NO. 26.13/141)		Each	343.00	343.00
12	Providing and laying in trenches G.I pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete. (PWD BUILDING SOR NO. 19.9/177) (SOR NO. 19.9.5/177) 40 mm dia nominal bore	50	RM	308.00	15400.00
				TOTAL	Rs. 194445.00
				Add : 03.5% for misc. and contingencies	RS 6305.58
				TOTAL	201250.58
				OR SAY Rs.	200000.00

Handwritten signature
Sub Engineer
Municipal Corporation
Jagdalpur (C.G.)

Handwritten signature
Assistant Engineer
Municipal Corporation
Jagdalpur

Handwritten signature
Executive Engineer
Municipal Corporation
JAGDALPUR (C.G.)

PROPOSED CONSTRUCTION OF SHED FOR OFFICE, REST ROOM & TOILET ETC. ,DISTRICT -JAGDALPUR [CG.]

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. (SOR ITEM NO. - 1.1 / 9) In all types of soils. (SOR ITEM NO. - 1.1.1 / 9)								
	For column	4	1.4	1.4	1.6	12.54			
	Below ground beam	4	2.1	0.4	0.1	0.34			
						12.88	cum	185.00	2382.80
2	Extra for every additional lift of 1.5 m or part thereof. (PWD BUILDING SOR NO. 1.6/10) All types of soil (PWD BUILDING SOR NO. 1.6.1/10)								
	For column	4	1.4	1.4	0.1	0.78			
						0.78	CUM	26.50	20.78
3	Providing and laying mechanically mixed cement concrete with crushed stone aggregate excluding cost of centering and shuttering (with 40mm nominal size graded stone aggregate). (SOR ITEM NO. 3.1/23) 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) (SOR ITEM NO. 3.1.2/23)								
	For column	4	1.4	1.4	0.1	0.78			
	Below ground beam	4	2.1	0.4	0.1	0.00			
						0.78	cum	2659.00	2084.66

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
4	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (PWD BUILDING SOR NO. 3.1.3/22)								
	CHECK POST	1	4	4.00	0.10	1.60			
						1.60	cum	2970.00	4752.00
5	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. (PWD BUILDING SOR NO. 3.2/23)								
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (PWD BUILDING SOR NO. 3.2.1/23)								
	For column	4	1.20	1.20	0.35	2.02			
	Ground beam	4	2.10	0.20	0.23	0.39			
	For column up to plinth	4	0.20	0.30	1.60	0.38			
	For column up plinth to slab top level(3.2m)	4	0.20	0.30	2.40	0.58			
	Slab level beam	4	2.10	0.20	0.23	0.39			
	Slab	1	2.50	2.50	0.10	0.63			
	Door lintel	1	1.30	0.20	0.10	0.03			
	Window chajja	1	1.90	0.20	0.10	0.04			
	Door lintel	1	1.30	0.60	0.10	0.08			
	Window	1	1.90	0.60	0.10	0.11			
						4.63	cum	4163.00	19273.86
6	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (PWD BUILDING SOR NO. 3.4/23)					1.84	cum	97.50	179.73

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT.
7	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for: (PWD BUILDING SOR NO. 2.1/16)								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level. (PWD BUILDING SOR NO. 2.1.1/16)								
	For column	4	4.80		0.35	6.72			
	Ground beam(side)	8	2.10		0.23	3.86			
	For column up to Plinth	4	1.00		1.60	6.40			
						16.98	Sqm.	139.00	2360.78
	Columns pillars piers and likes-rectangular or square in shape (PWD BUILDING SOR NO. 2.1.5/16)								
	For column up ngl to wall top level(3.35m high)	4	1.00		3.2	12.80			
						12.80	Sqm.	297.00	3801.60
	Beams, lintels, cantilevers & walls (PWD BUILDING SOR NO. 2.1.8/16)								
	Slab level beam	8	2.10		0.23	3.86			
	bottom	4	2.10		0.20	1.68			
	Door lintel	2	1.30		0.10	0.26			
	bottom	1	0.90		0.20	0.18			
	Window	2	1.90		0.10	0.38			
	bottom	1	1.50		0.20	0.30			
						6.66	Sqm.	202.00	1346.13
	Edge of slab breaks in floor and walls upto 200mm. (PWD BUILDING SOR NO. 2.1.4/16)								
	Slab	4	2.5			10.00			
						10.00	M	34.00	340.00

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
	Suspended floors roofs access platform balconies (plain surfaces) and shelves (cast in situ) (PWD BUILDING SOR NO. 2.1.7/16)								
	Slab(bottom)	1	2.5	2.5		6.25			
						6.25	Sqm.	235.00	1468.75
	Weather shade, chhajja, cornices and moldings (PWD BUILDING SOR NO. 2.1.13/17)								
	chajja								
	Door lintel	1	1.50	0.70		1.05			
	Window	1	1.90	0.70		1.33			
						2.38	sqm	294.00	699.72
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: (PWD BUILDING SOR NO. 3.14/24)								
	Thermo-Mechanically treated bars FE 415 (PWD BUILDING SOR NO. 3.14.1/24)	1	4.6	75	Kg/Cum	347.24	Kg.	54.50	18924.31
9	Brick work with modular well burnt clay bricks of crushing strength not than 35kg/sqcm and water absorption not more than 20% in foundation and plinth in: (PWD BUILDING SOR NO. 7.1/44) Cement Mortar 1:6 (1 cement : 6 coarse sand) (PWD BUILDING SOR NO. 7.1.4/44)								

(v) WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
	as per length ground beam	4	2.1	0.2	0.30	0.50			
	wall	4	2.1	0.2	2.10	3.53			
	deduction of opening(-)	1	0.9	0.2	2.10	-0.38			
	window	1	1.5	0.2	1.20	-0.36			
						3.29	Cum	3821.00	12586.37
10	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (PWD BUILDING SOR NO. 7.6/45)					2.79	Cum	121.00	337.59
11	Filling from available excavated stuff (Excluding rock) in trenches plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M. (PWD BUILDING SOR NO. 1.17/11)					10.30	Cum	65.00	669.76
	(80% of excavated stuff)								
12	6mm thick cement plaster of mix: (PWD BUILDING SOR NO. 11.1/103) In Cement mortar 1:4(1 cement :4 fine sand) (PWD BUILDING SOR NO. 11.1.2/103)								
	Slab(bottom)	1	2.5	2.5		6.25			
	chajja(bottom)	1	1.5	0.7		1.05			
	chajja(bottom)	1	1.9	0.7		1.33			
						8.63	Sqm	87.00	750.81
13	12mm thick cement plaster of mix: (PWD BUILDING SOR NO. 11.2/103) In Cement mortar 1:6(1 cement :6 fine sand) (PWD BUILDING SOR NO. 11.2.4/103)								

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT.
	as per length ground beam	4	2.1		0.30	2.52			
	wall	4	2.1		2.10	17.64			
	deduction of opning(-)	1	0.9	0.5	2.10	-0.95			
	window	1	1.5	0.5	1.20	-0.90			
						18.32	Sqm	91.50	1675.82
	15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	(PWD BUILDING SOR NO. 11.3/103)								
	In Cement mortar 1:6(1 cement :6 fine sand)								
	(PWD BUILDING SOR NO. 11.3.4/103)								
	one face								
						18.32	Sqm	107.00	1959.71
14	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.								
	(PWD BUILDING SOR NO. 8.1/54)								
	(ii) Sal, bijasal, benteak, chair, haldu								
	(PWD BUILDING SOR NO. 8.1.2/54)								
	door	1	2.10	0.075	0.125	0.02			
		2	0.90	0.075	0.125	0.02			
						0.04	cum	61051.00	2232.18
15	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	(PWD BUILDING SOR NO. 8.13/56)								
	40 mm. thick (single leaf)								
	(PWD BUILDING SOR NO. 8.13.1/56)								
	DOOR	1	0.90	2.100		1.89			

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
						1.89	sqm	1601.00	3025.89
16	Extra for cutting rebate in flush door shutter (total area of door shutter to be measured). (PWD BUILDING SOR NO. 8.21/57)					1.89	SQM	46.00	86.94
17	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer. (PWD BUILDING SOR NO. 9.15/81)								
	Window	2	1.20	0.600		1.44			
						1.44			
			1.44	8.5	Kg/Sqm.	12.24	kg	67.50	826.20
18	Providing and fixing M.S. bright finished or black enameled Parliamentary hinges with necessary iron screws: (PWD BUILDING SOR NO. 8.95/66) 125x65x2.12 mm (PWD BUILDING SOR NO. 8.95.2/66)								
	DOOR	1	3			3.00			
						3.00	SQM	67.50	202.50
19	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws: (PWD BUILDING SOR NO. 8.99/73) (ii) 250x16 mm (PWD BUILDING SOR NO. 8.99.2/73)								
	DOOR	1	2			2.00			

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR In force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
						2.00	each	72.50	145.00
20	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws: (PWD BUILDING SOR NO. 8.100./66) (ii) 250x20x16 mm (PWD BUILDING SOR NO. 8.100.2/66)								
		DOOR	1	1		1.00			
						1.00	each	50.50	50.50
21	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws: (PWD BUILDING SOR NO. 8.102/66) (i) 250 mm (PWD BUILDING SOR NO. 8.122.1/66)								
		DOOR	1	2		2.00			
						2.00	each	34.50	69.00
22	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws: (PWD BUILDING SOR NO. 8.103/67) (i) 125 mm (PWD BUILDING SOR NO. 8.123.1/67)								
		DOOR	1	2		2.00			
						2.00	each	51.00	102.00
23	Providing and laying rectified ceramic glazed floor tiles 300x300 mm conforming to IS: 15622 of approved make colour shade laid on 20 mm thick Cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with whites cement mixed with matching pimment etc. complete. (PWD BUILDING SOR NO. 12.10/112)								

(v)WATCH MAN ROOM

Estimate Based on : PWD BUILDING SOR in force form 01.01.2015 & NON SOR.

S.No.	PARTICULAR	No.	L	B	D/H	QTY.	UNIT	RATE	AMOUNT
	Size above 300x300mm								
	(PWD BUILDING SOR NO. 12.8.2/112)								
		floor	1	4.00	4.00	16.00			
						16.00	sqm	905.00	14480.00
24	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately; 24.50								
	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).								
	(PWD BUILDING SOR 9.47.2/85)		1.44		8KG/SQ M	11.52			
						11.52	KG	338.00	3,893.76
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item);								
	With float glass panes of 4 mm thickness								
	(PWD BUILDING SOR NO. 9.51.1/85)								
		Window	1	1.50	1.20	1.80			
						1.80	sqm	611.00	1,099.80

		40 amps	1		1.0	Each	1,339.00	1,339.00
7	C.G.PWD E/M SOR 11.16 Page 72	Providing and fixing 1P&N MCB 440 volts, C curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc as required.						
	11.16.2/72	6 amps to 32 amps	5		5.0	Each	929.00	4,645.00
	11.16.3/72	40 amps	3		3.0	Each	1,339.00	4,017.00
8	C.G.PWD E/M SOR 12.13 Page 79	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter / cubical panel including, connections, testing and commissioning etc as required.						
	12.13.2/79	40 amps	2		2.0	Each	1,104.00	2,208.00
9	C.G.PWD E/M SOR 12.15 Page 79	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc, as required.						
	12.15.2/79	100/5 amps	4		4.0	Each	375.00	1,500.00
10	C.G.PWD E/M SOR 12.17 Page 80	Providing and fixing panel mounting 230 volts LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc as required.						
			6		6.0	Each	89.00	534.00
11	C.G.PWD E/M SOR 12.18 Page 80	Providing and fixing panel mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc as required.						
	12.18.2/80	0 - 100 amps	2		2.0	Each	432.00	864.00
12	C.G.PWD E/M SOR 12.20 Page 80	Providing and fixing panel mounting 0-500 volts voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc as required.						
	12.20.1/80	Analog type	2		2.0	Each	162.00	324.00
13	C.G.PWD E/M SOR 12.21 Page 80	Providing and fixing panel mounting selector switch in existing cubical panel including, connections, testing and commissioning etc as required.						
	12.21.1/80	For voltmeter	2		2.0	Each	162.00	324.00
	12.21.2/80	For ammeter	2		2.0	Each	260.00	520.00
14	C.G.PWD E/M SOR 12.22 Page 80	Providing and fixing following time switch (timer) in existing cubical panel including, connections, testing and commissioning etc as required.						
	12.22.2/80	Analog type	4		4.0	Each	2,715.00	10,860.00

15	C.G.PWD E/M SOR 14.2 Page 75	Earthing with G.I. earth pipe 4.5 mtr long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, etc. with charcoal charcoal and salt as required.	2			2.0	Set	2,093.00	4,186.00
16	C.G.PWD E/M SOR 14.13 Page 88	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as required.	190	18		3420.0	Metre	38.00	1,29,760.00
17	C.G.PWD E/M SOR 14.14 Page 88	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as required.	40	10		400.0	Metre	97.50	39,800.00
18	C.G.PWD E/M SOR 16.2 Page 94 16.2.2/94	Supplying and laying HDPE pipe of 4 kg/ sqcm in ground below road, path etc at a depth not less than 40 cm including excavation, dismantling of road if required and refilling the trench etc. as required. 75 mm outer dia	85			85.0	Meter	179.0	15,215.00
19	C.G.PWD E/M SOR 16.5 Page 95 16.5.5/95	Supplying and laying following size medium class G.I. pipe in ground below road, path etc at a depth not less than 40 cm including excavation, dismantling of road if required and refilling the trench etc. as required. 60 mm internal dia	100			100.0	Meter	679.0	67,900.00
20	C.G.PWD E/M SOR 17.3 Page 105 17.3.22/105	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as required. 4 x 10 sq. mm	100			100.0	Meter	117.0	11,700.00
21	C.G.PWD E/M SOR 17.2B Page 116 17.20.4/100	Supplying, fixing and cramping suitable size and all type aluminium ferrule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc. as required. 10 sq. mm	180			180.0	Each	12.50	2,250.00
22	C.G.PWD E/M SOR 21.10 Page 141 21.10.1/141	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as required of length Upto 3.0 metre	15			15.0	Each	1494.0	22,410.00

9	11.1	Providing and laying cement plaster of 12mm thickness and mix in correct line, levels and plumb over columns, beams and walls of any shape and size at all levels, including curing any required scaffolding all as per drawings and as directed by the Engineer-in-Charge. Item is inclusive of all required edge making, finishing, transportation, labour, materials, tools, plants and equipments etc. complete.										
A	11.2	(ii) Providing and making 12mm thick cement plaster of mix:										
	11.2.2	In Cement mortar 1:4(1 cement :4 fine sand)										
		Above plinth										
		longer span	2	9.40		1.20	22.56					
		shorter span	2	29.40		1.20	70.56					
		Deduction(-)										
		opening	2	5.00		1.20	-12.00					
							81.12	sqm	103.00		8355	
B	11.3	(iii) 15mm thick cement plaster on the rough side of single or half brick wall of mix:										
	11.3.3	In Cement mortar 1:5 (1 cement :5 fine sand)										
		Below Ground Beam										
		longer span	2	9.40		0.50	9.40					
		short span	2	29.40		0.50	29.40					
		Above plinth										
		longer span	2	9.40		1.20	22.56					
		short span	2	29.40		1.20	70.56					
		ramp/stair	2	2.00		0.50	2.00					
		Deduction(-)										
		opening	2	5.00		1.20	-12.00					
		ramp/stair	2	5.00		0.50	-5.00					
							116.92	sqm	113.00		13212	
10	12.30	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.										
	12.3.3	75 mm thick										
		hall	1	9.40	29.40		276.36					
		ramp	2	3.50	2.10		14.70					
							276.36	sqm	345.00		95344	

11	9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.								
	9.3.1	Electric resistance or induction butt welded tubes Grade-250	1	10.00	30.00	30.00	9000.00	kg	88.50	796500
12	10.12	Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.								
			2	31.20	5.50		343.20	sqm	693.00	237838
13	10.16	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete								
	10.16.1	Ridges plain (500-600mm)	1	31.20			31.20	m	552.00	17222
14	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.2	Premium synthetic enamel paint	1	30.00	10.00		150.00	sqm	47.00	7050

15.	14.11	Providing and applying water-proofing cement based paints of best approved make, colour and shade in three coats to obtain an even shade inclusive of all necessary surface preparation, application of one coat of cement primer all complete as directed by the Engineer-in-charge.							
	14.11.1	(i) On new work (Two or more coats)							
						198.04	sqm	52.50	10397
16	14.9	Distemping with acrylic washable distemper to give an even shade.							
	14.9.1	On new work (Two or more coats)							
						198.04	sqm	38.00	7526
Sub total								Rs.	1675733
Add 9% for Electrification works								Rs.	150816
Add 9% for Water supply works								Rs.	150816
Add 2.5% for Miscellaneous expenses								Rs.	41893
Total								Rs.	2019259
Or Say								Rs.	2000000

Handey

SUB ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

Asiy

ASSISTANT ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

K

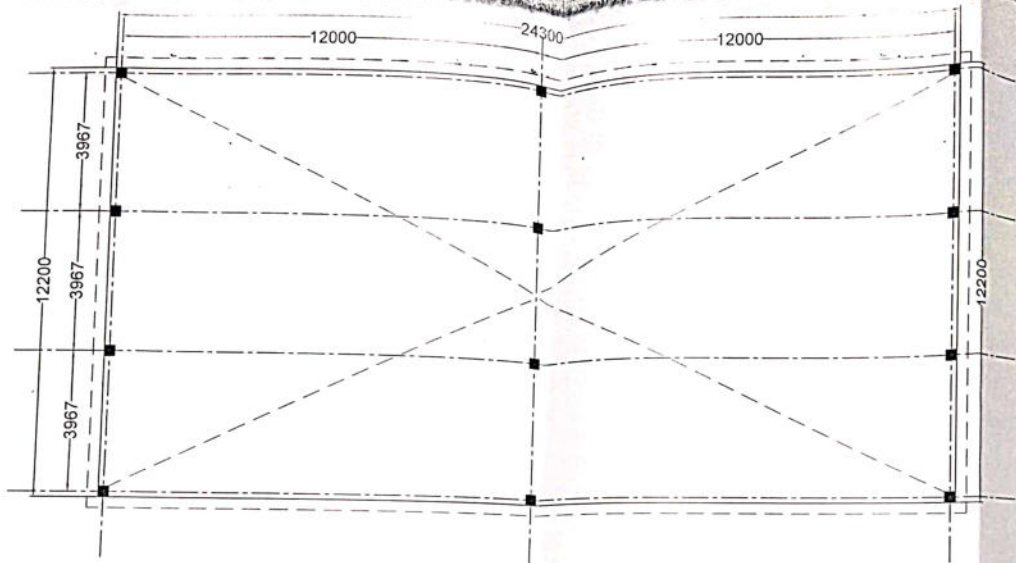
EXECUTIVE ENGINEER
MUNICIPAL CORPORATION
JAGDALPUR

(PWD ROAD SQR NO. 9.4.2/09)		2	3.00		10.00	M	2617.89	26170.00
9	Brick work with modular fly ash bricks (1st G Bricks) conforming to IS 12894-2002 of class designation 4.0 in foundation and plinth in:							
	a) Sedimentation tank 1 (PWD SOR 2015/Pg.45 (7.5.3))	4	3.50	0.20	1.80		3350.00	16884.00
10	Providing and making 15mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement 5 fine sand)							
	a) Baffle wall B1 (Sedimentation Tank 1)	8	3.50	1.80		sqm.	113.00	5695.20
	(PWD SOR 2015/Pg.102 (11.3.3))		0.20	1.80		sqm.	113.00	325.44
11	Neat Cement Punning							
	a) Sedimentation tank 1	8	3.50	1.80		sqm.	33.00	1663.20
	(PWD SOR 2015/Pg.104 (11.5))		3.50	0.20		sqm.	33.00	184.80
							TOTAL (B)	500968.00
							Sub Total	Rs. 500968.00
							Or say	Rs. 500000.00

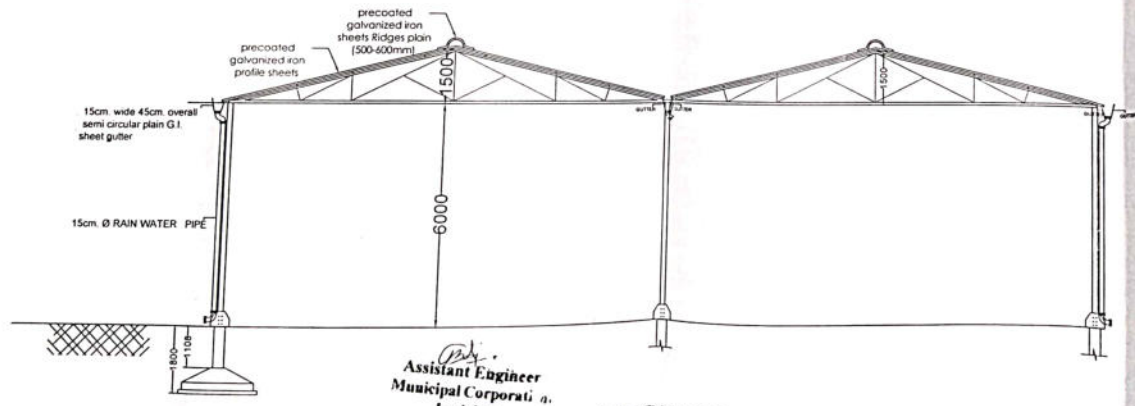
Handey
Sub Engineer
 Municipal Corporation
 Jagdalpur (C.G.)

Omka
 Jagdalpur
 Municipal Corporation
 Jagdalpur (C.G.)

A
Executive Engineer
 Municipal Corporation
 Jagdalpur (C.G.)



PLAN AT SHED (24.30mX12.20m)



[Signature]
Assistant Engineer
Municipal Corporation,
Jagdalpur

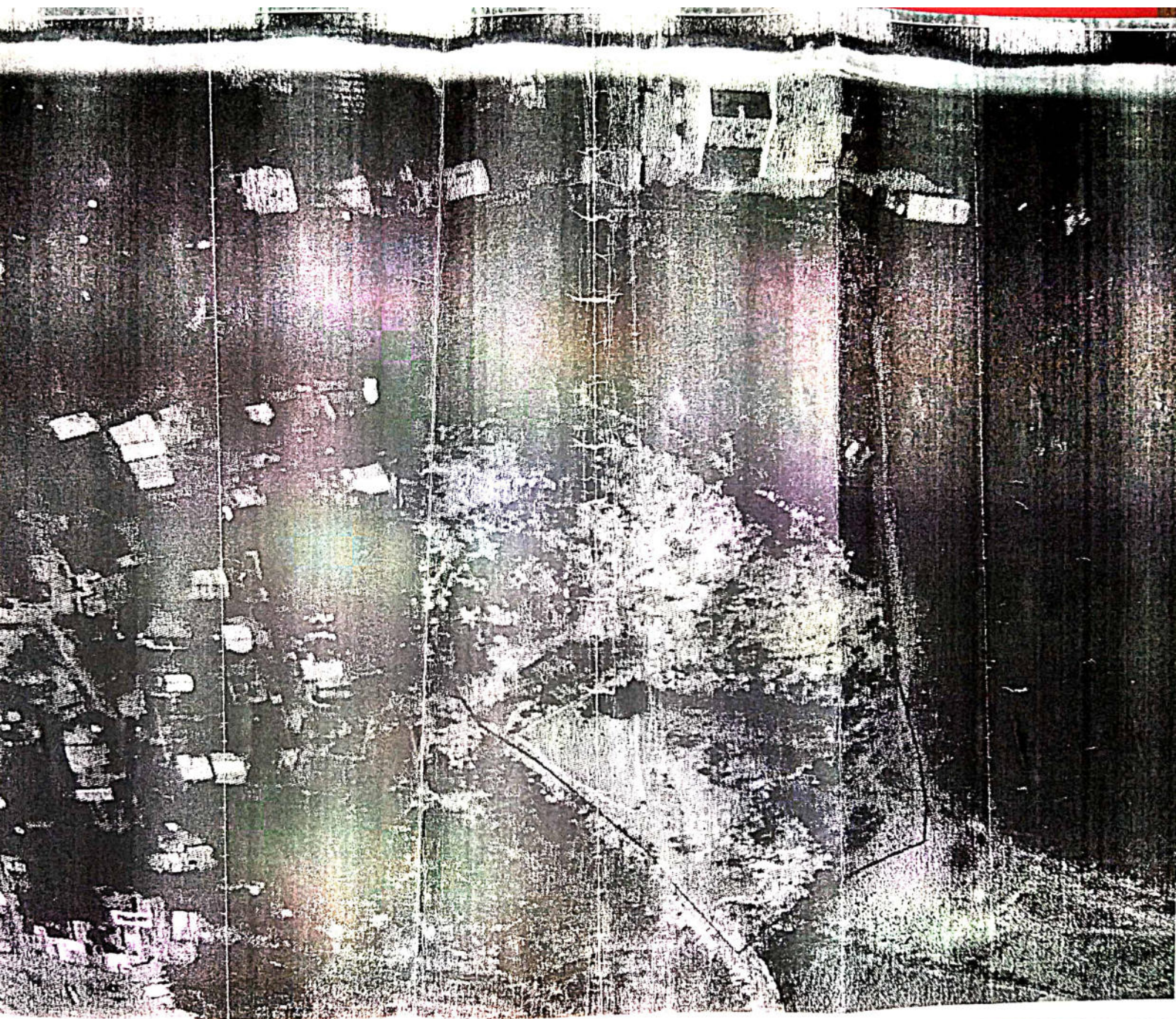
SECTION

PROPOSED CONSTRUCTION OF SHED FOR
 MACHINERIES,
 DISTRICT - JAGDALPUR [CG]

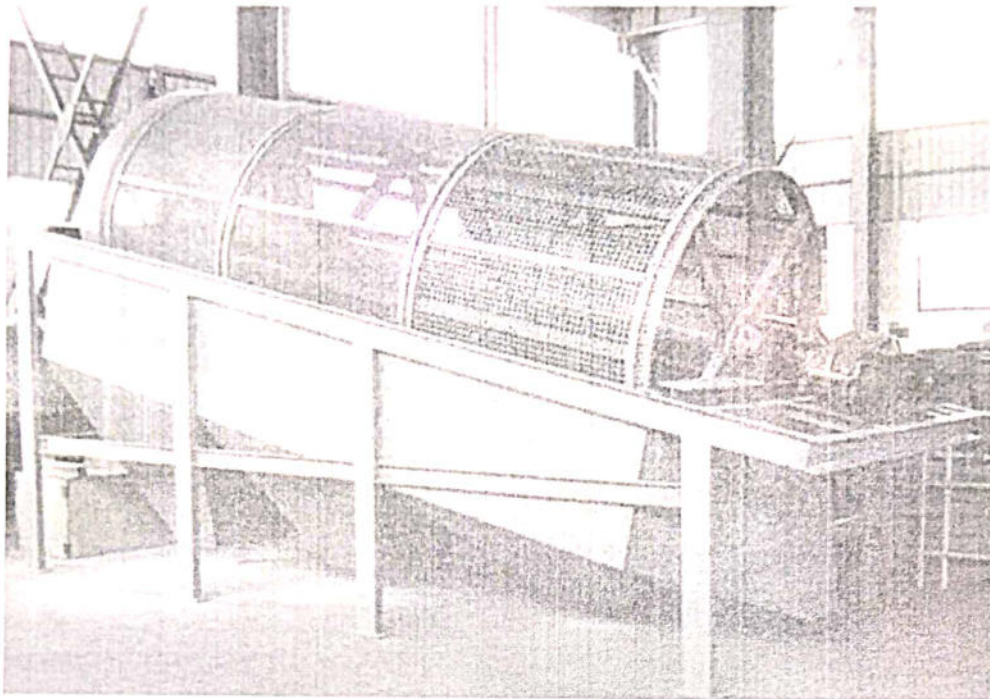
FILE
SHED PLAN & SECTION

SCALE	DATE	DRAWN BY	CHECKED BY
1/200	08.09.2015	D.H. SHUKLA	ALAKY SHUKLA





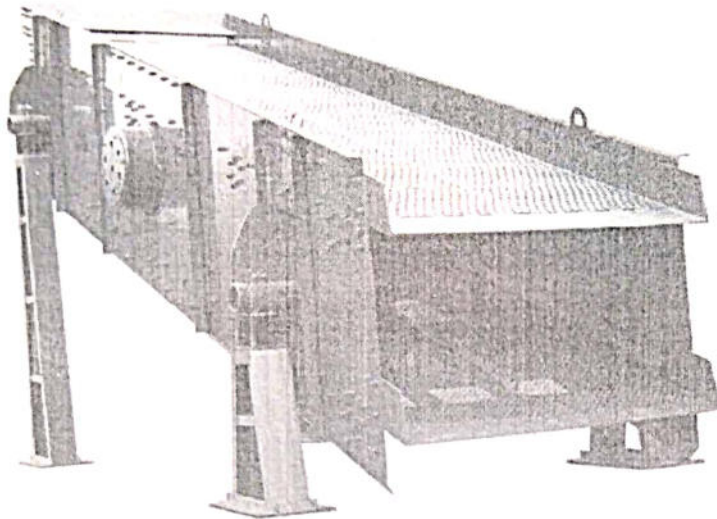
1. **Trommels** are the rotary screens which rotates the dry waste into screening compartment and drops the material smaller than the mesh size in discharge conveyor and rejects the oversized material on rejecting conveyor



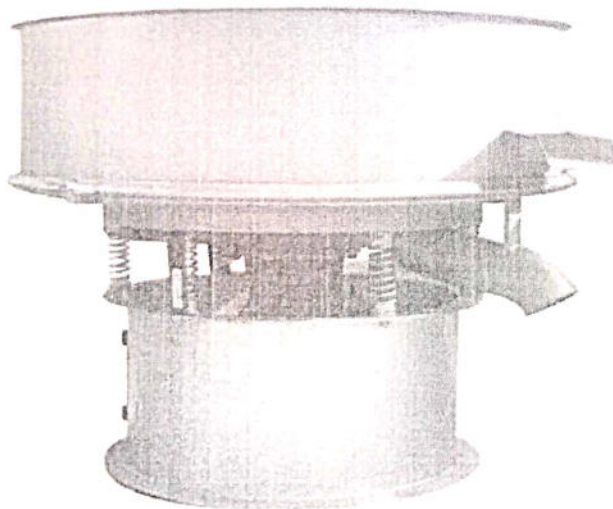
Trommel Hole Dia 25mm, 4mm with feeding and discharge conveyor system		
Sl. No.	Technical specification of Trommel hole with dia 25mm, 4mm	
1	Capacity	40 to 50 tons per hour as per requirement
2	Material of construction	M.S. fabricated body Corrosion resistant paint
3	Electric drive	20 to 25 HP Electric Motor, 3 phase with suitable reduction gear box
4	Drive	Fiction Drive (Tyre type) Heavy duty chain sprocket, support rollers and thrust rollers
5	Screen holes	M.S. screen 4 mm thick with punched holes Dia 25 mm
6	screen size	Screen size Dia 1000mmX 4000mm
7	Screening compartment	Spiral flights to move material faster and prevent chocking
8	control panel	On/off with suitable dual contactors

2. **Vibrator sieve machine** is used for compost screening. The unwanted objects are removed and pure coarse granules as per required size **4mm to 8mm** are obtained. The more sized rejects are come through the topper outlet of the machine.

Inclined:-



Round shaped:-



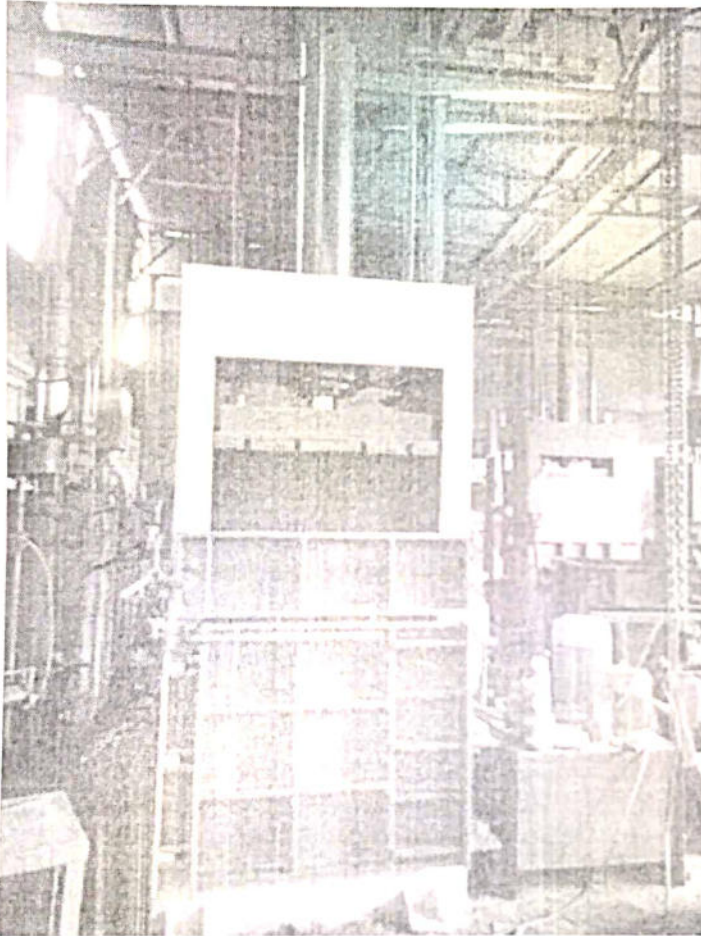
Sl. No.	Technical specification of Vibrator sieve machine	
1	Capacity	5 to 10 tons per hour as per requirement
2	Material of construction	M.S. fabricated body (inclined or round shaped) Corrosion resistant paint
3	Electric drive	5 HP Electric Motor, 3 phase with suitable reduction gear box
4	Screen holes	M.S. screen 4 mm thick with punched holes Dia 25 mm

5	screen size	4mm & 8mm
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3. Personal Protective Equipment (PPE):

As per the SUDA approved cost and list of PPE

4. Baling Machine: The dry municipal waste like Pet bottles, polyethene bags, tins, tetra packs and other non-biodegradable materials are pressed hydraulically through the Baling Machine for forming bales. It reduces the volume of these type of waste and easy for carrying and the bailed RDF can be sent to cement plants for its utilization in their kilns.

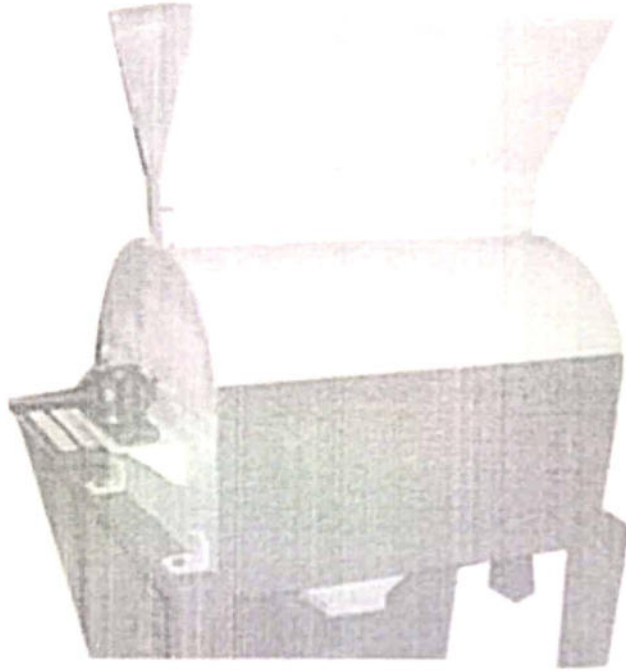


Sl. No.	Technical specification of Hydraulic Baling Machine	
1	Capacity	50 Tonnes
2	Material of construction	M.S. fabricated body Corrosion resistant paint
3	Type of pump	Hydraulic system gear cum plunger pump system
4	Chamber size	812 x 660 x 1600 in mm
5	Weight of Bale	100-150 Kg
6	Cycle time per bale	15-20 min
7	Number of cylinders	1

8	Motor power	7.5 Hp
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5. Fatka machine/ Dust Separator

This machine is useful for dedusting the non-recyclable materials before pre-processing/ sending the materials to baling units.



Sl. No.	Technical specification of Fatka machine/ Dust Separator	
1	Capacity	300-400 kg per hour
2	Material of construction	M.S. fabricated body Corrosion resistant paint
3	shape	Horizontal structure with compacted design
4	Machine size	1200 x 1000 x 2000 in mm
5	Screen mesh	40 X 40 mm
6	Motor power	7.5 Hp, 3 phase
7	Rotar details	Dusting rotardia 400mm