

FIPL/Everenviro/JUGAD/Feedstock/WO-C/01

Date: 25.11.2020

To,

JUGAD Tech Service.

H No 166 Village Shanker,

Ludhiana, Punjab-144042

E-Mail: Jugadjts@gmail.com: skgrewal93@gmail.com

Kind Attn: Sandeep Singh

Dear Sir,

Sub: Work Order for supply of 6 nos Manpower feedstock survey at Dhuri & Jagraon Punjab for 25 (Twenty five) Days.

References:

1. Your Mail 22.11.2020, Telephonic Communications

Dear Sir,

This has reference to your proposal and the subsequent correspondence, discussions as referred above for Feedstock Survey.

We are pleased to place this Work Order on you for above said subject to be carried out at the two tehsils. The scope of Work is attached as **Annexure -1** to this Work order.

Please note that the scope of services, and deliverables will be as per the documents attached.

1. PRICE :

Price agreed for the said studies at the site as per scope attached is as below.

1)	Feedstock survey at the two tehsils Dhuri and Jagraon.	INR 2,40,000/- All Inclusive
----	---	-------------------------------------

The terms of payment is as below.

- a) 20% as advance on ground deployment.
- b) 50% upon completion of 20 Days and submission of filled in agreed formats.
- c) 30% upon completion of 31 days and submission of balance filled in agreed formats.

TAXES AND DUTIES:

The order value indicated above is **Excluding Tax**. For any out of pocket expenses, local transportation etc. no further payment is eligible as per the scope.

2. DELIVERY SCHEDULE:

The completion schedule is one month, and any further change would be mutually discussed and agreed upon.

The following will be the Deliverables.

- (i) Excel sheets filled in for the complete Tehsil both in soft & hard copy. (One copy)
- (ii) Final recordings of all the places visited in the tehsil and written information on the existing plant.

The draft and final Excel sheets shall be delivered in English.

3. OTHER TERMS:

- (i) Price indicated above is firm till the completion of work (one month).
- (ii) Jurisdiction of operation of contract shall be India only.

4. FORCE MAJEURE:

In the event of unforeseen causes beyond control and without fault and negligence of the Contractor including (but not restricted to) act of God or Public enemy, action of Government in its sovereign capacity, floods,

epidemics quarantine, strike, lockouts, fires, explosions, accident's, stoppages in the supply of power, civil commotion riots, wars or warlike acts, insurrections, mutiny, changes in statutory regulations, governmental measures or decrees, embargoes, natural catastrophes, fire, rejection of a major work piece etc. the execution of work will be extended. In the event of any of the aforesaid contingencies, unusual or extra ordinarily prolonged, FIPL will be promptly kept informed by the contractor by fax/telegram followed by confirmation in writing with documentary proof within 15 days of the commencement and completion of force majeure circumstances. The extension of Contract period/completion time shall be in keeping with the duration of the force majeure event.

5. You are requested to please sign and return the duplicate copy of this Work Order duly signed and stamped on each page as a token of your acceptance. Also please confirm your Bank details as given below.

Please provide your Bank account number along with the IFSC code along with the work order acceptance copy.

Thanking You

Yours truly,



(S.L.N.Hari, Sr. Vice President)
For Feedback Infra Private Ltd

CONTRACTOR'S ACCEPTANCE:

We accept the Work Order.

(Sandeep Singh)

Received, Agreed and Accepted
For JUGAD Tech Service
(Authorised Signatory)

ANNEURE 1

A. Scope of Work – Specific Study.

1. Physical study of feedstock
 - I. Assess the availability of feedstock (paddy straw) in terms of quantity and quality including seasonal fluctuations over the last decade.
 - II. Current method of paddy harvesting (manual / automated) and subsequent disposal of paddy straw.
 - III. Availability of alternate feedstock (within a radius of 20 km of the main plant.) to enhance the yield of biogas
2. Monitor the current season of harvest starting from November 2020 and report the findings on the same.
3. Aggregation of feedstock (Paddy Straw) from farmers.
 - I. Report on the method of paddy straw aggregation and infrastructure involved for the same
 - II. Comment on capabilities of major aggregators (including their socio-political influence) with added focus on Punjab Renewable Energy Systems Pvt. Ltd. (PRESPL).
4. Land identification for main plant and collection centre.
 - I. Identification of suitable land parcel for development of a 100 TPD paddy straw intake plant.
 - II. Identification of suitable land parcels for storage of paddy straw for a complete year and supply of the same to the main plant.

B. Scope of Work – General Study

- a) obtain details for the Verbio project located in the Sangrur district of Punjab.
 - I. Current status of the project.
 - II. Methodology of feedstock aggregation and storage deployed.
 - III. Technology used / Technology provider for processing paddy straw to Biogas and upgradation to Bio-CNG.
 - IV. Details of Engineering Procurement Construction (EPC) partners, Owners' Engineer (OE), Project Management Consultant (PMC)
 - V. associated with the projects
 - VI. Logistics arrangement for aggregating the feedstock
 - VII. Estimated landed price for feedstock procurement.
 - VIII. Usage of additional feedstocks other than paddy straw.

C. Scope of Work – General Study and for Specific Projects

1. Logistics analysis of feedstock
 - a) Study on establishing connectivity from farmer to the plant.
 - b) Analysis of optimum route for feedstock transport from Farmer to collection centre and collection centre to plant.
 - c) Identification of land parcels and area required for storage of feedstock.
 - d) Procedure / methods for storage to reduce quality degradation.
2. Cost Analysis of feedstock -- landed price
 - I. Price of paddy straw being paid to farmer.
 - II. Cost of transportation of paddy straw from farmer to collection points/ centres

- III. Cost of storage and maintenance of paddy straw at collection centre for the complete year post harvest season
- IV. Cost of transportation of paddy straw on a daily basis to the plant premises.
- V. Infrastructure related cost for land, moving equipment and storage related.