



# CHHATTISGARH BIOFUEL DEVELOPMENT AUTHORITY

(Department of Energy, Govt. of Chhattisgarh)

## छत्तीसगढ़ बायोफ्यूल विकास प्राधिकरण

(ऊर्जा विभाग, छत्तीसगढ़ शासन)



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Ref...57...../CBDA/PT002/2022-23

Date 27/04/2022

### Minutes of Pre Bid Meeting for Tender No: CBDA/2022/PT/002 Dated 25.04.2022

A Pre Bid Meeting for Tender No CBDA/2022/PT/002 regarding **Supply, Installation & Commissioning of Biogas driven Power Generation Plant based on BARC 'NISARGRUNA' technology at different locations across Chhattisgarh preferably in Rural Industrial Parks for Research & Development purpose** was held on 25/04/2022 at 14:00 Hrs in CBDA Conference Hall, H.O, Raipur.

Following Bidders/Persons from Industries/ Institutions are present in the said meeting either personally or virtually through Video Conferencing:

| S.N | Name                    | Designation   | Industry/Institute             | Mode      |
|-----|-------------------------|---------------|--------------------------------|-----------|
| 1   | Mr. Sumit Sarkar        | CEO           | CBDA, Raipur                   | In person |
| 2   | Dr. Sayaji Mehetre      | Scientist "E" | BARC, Mumbai                   | Virtually |
| 3   | Mr. Mohammad. P         | MD            | M/s Alternate Tech., B'lore    | In person |
| 4   | Mr. Praveen Jha         | Partner       | M/s Steller In Venture, Raipur | In person |
| 5   | Mrs. Ruchika Goel       | Director      | M/s Green Builtz, Raipur       | In person |
| 6   | Mr. Santosh Shukla      | Director      | M/s Diva Eiva Projects         | In person |
| 7   | Mr. Vinod Bais          | GM            | M/s Alternate Tech., B'lore    | In person |
| 8   | Mr. Sohit Singh         | AM            | M/s Alternate Tech., B'lore    | In person |
| 9   | Yashshree. B            |               | M/s Urja Biosystem, Pune       | Virtually |
| 10  | Mr. Gourav Agarwal      | Partner       | M/s SPAS Bio energy, Raipur    | Virtually |
| 11  | Mr. Kundan Gupta        | -             | -                              | Virtually |
| 12  | Mr. Sunil K Shrivastava | Partner       | M/s Chartered Engineer, Raipur | Virtually |
| 13  | Mr. Vishal Mankani      | -             | -                              | Virtually |
| 14  | Mr. Bhuneshwar Kurre    | Partner       | M/s A.R Sales, Korba           | Virtually |
| 15  | Dr. Preeti Kaur         | PSO           | CBDA, Raipur                   | In person |
| 16  | Mr. Ramesh Mendhekar    | MO            | CBDA, Raipur                   | In person |
| 17  | Dr. Vishal Khare        | TO            | CBDA, Raipur                   | In person |

Following Technical queries regarding Scope of Work (SoW) are raised by Bidders which are clarify by Dr. Mehetre (Scientist-BARC), Mr. Sumit Sarkar (CEO-CBDA)

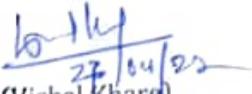
| Bidder                     | Queries raised                                                                                                                                                                                                                                   | Replies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M/s Alternate Tech, B'lore | Why Processing Room, Receiving Platform, Drying Shed, Storage Shed, Baloon Room, and Generator Shed are required separately, as this civil work increases the project cost? Also there is no such specific drawing and dimensions are specified. | We can simply construct a large/lenghty shed, according to availability of open space in Gothans. Such shed/enclosure can be constructed simply by elevated pole/beem with Tin roof to serve the purpose of safe storage of materials, implements etc e.g. Generator room, a space where proper ventilation, protection from rain/theft must be assured. Similarly a balloon room can be constructing with wire mesh, cemented floor to assure rodent proof and water logging. (Dr. Mehetre) |

| Bidder                         | Queries raised                                                                                                                                                                                                                                               | Replies                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M/s Alternate Tech, B'lore     | Why 2 air compressor of different capacities are required and what are the purpose                                                                                                                                                                           | Air compressor is required in primary digester for proper air compression so that it gives more quantity of gas. Other compressor is to be kept as standby. We can operate in the single compressor also. (Dr. Mehetre)                                                                                                                  |
| M/s Steller In Venture, Raipur | Capacity of Generator i.e 12.5KVA is very high, generator itself consume high volume of gas to run from 25 M <sup>3</sup> plant. We may run 7.5KVA generator easily with this capacity of plant.                                                             | If 7.5 KVA Biogas generator complying to BIS parameters of indigenous manufacturer are easily available in market capacity may be amended accordingly.(Dr. Mehetre)                                                                                                                                                                      |
| M/s Urja Bio Systems, Pune     | Please clarify in the propose village 3 phase power connection is available or not                                                                                                                                                                           | No<br>(CEO, CBDA)                                                                                                                                                                                                                                                                                                                        |
|                                | Is Water connection available at proposed location of biogas plant, clarify it                                                                                                                                                                               | Yes<br>(CEO, CBDA)                                                                                                                                                                                                                                                                                                                       |
|                                | Please clarify about the requirement of air compressor of 3HP and 2HP, as per our knowledge and practical use we here not required air compressor, biogas blower will be sufficient to provide the required pressure of gas to biogas engine and gas stove . | 1 air compressor of any capacity is required.<br><br>(Dr. Mehetre)                                                                                                                                                                                                                                                                       |
|                                | Kindly provide the information about the gas stove capacity which is required, (8cft or 16 cft).                                                                                                                                                             | There is provision of Gas stove with minimum capacity i.e. 8cft.<br>(TO, CBDA)                                                                                                                                                                                                                                                           |
|                                | Please provide the length of gas piping from the plant location.                                                                                                                                                                                             | Gas piping from digester to balloon and then from balloon to scrubber and to generator will be 15 mtrs. Above this will be paid additionally if and when we found it suitable. Therefore Bidders are requested first to visit Gothans for proper planning, so that piping or any other such running cost will be minimize.<br>(TO, CBDA) |
|                                | Biogas purification system i.e. scrubbing system is must, for well functioning of biogas generator.                                                                                                                                                          | Yes, Biogas scrubbing system is required.<br>(CEO, CBDA)                                                                                                                                                                                                                                                                                 |
|                                | Gas flow meter is not required for small scale project, as digital flow meter is expensive and would be waste of money for small projects                                                                                                                    | Analog gas flow meter is cheaper and can be utilized for the purpose.<br><br>(Dr. Mehetre)                                                                                                                                                                                                                                               |
|                                | Where we need to installed the wall mounted fan, if consider for engine room, which is not required, exhaust fan will be sufficient, and that also depends upon the design of engine room.                                                                   | Agreed, fan whether wall mounted or exhaust, can be used as per convenience.<br><br>(CEO, CBDA)                                                                                                                                                                                                                                          |
|                                | Storage shed also not required.                                                                                                                                                                                                                              | Agreed (CEO, CBDA)                                                                                                                                                                                                                                                                                                                       |

|            |                                                                                                      |                                                                                                                     |
|------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| T.O., CBDA | Cow dung available in Gothans have lot of impurities such as mud, stone which may block the digester | A wire mesh before inlet is sufficient to reduce such impurities from flowing inside the digester.<br>(Dr. Mehetre) |
|            | Electrical Panel are costly                                                                          | Simple fuse type electrical panel is sufficient.<br>(Dr. Mehetre)                                                   |

Any further changes in Scope of Work will be revised by BARC and accordingly corrigendum/Addendum will be issued. Meeting adjourned with vote of thanks at 17:00 Hrs.

(Approved by CEO)

  
27/04/22  
(Vishal Khare)  
Technical Officer