Pre bid queries for Life Cycle Assessment (LCA) of Various Key Bio-Energy Technologies for Developing Framework for Sustainable Design and Deployment of Bio-Energy Program at National and Sub-National Level; RFQ no. 7000003869

S, No.	Section	Query	Response
1	Task 1 Create emission inventories linked with major feedstocks such as paddy straw, pine needles, cotton stalk, sawdust, press mud, etc. , which contributes approx. 70-80 % national feedstock	Should the analysis be undertaken for all IEP partner states (Goa, Assam, Punjab, West Bengal, Odisha and Uttarakhand) and national-level applicability, or is GIZ expecting the contractor to prioritize a subset of states/feedstocks/technology pathways for detailed modelling and LCA?	The detailed scope will be decided jointly (by MNRE, GIZ and the consultant), based on required quality of the task, national/state level data availability etc. The bidder needs to explain their competency in terms of access to data and data providers as well as their inhouse availability of data (if any). The bidder also needs to mention the time/cost implication of data collection/analysis in the technical bids (on prorata basis). Accordingly GIZ will assess the bids.
2	Task 2 Perform Life Cycle Inventory (LCI) data collection through primary (surveys, experiments) and secondary sources (such as State database, MNRE, IARI, CPCB, literature and market information).	To what extent is the contractor expected to undertake primary surveys, experiments, and field-level data collection, versus relying on secondary datasets and stakeholder consultations? Will GIZ/MNRE facilitate access to technology providers, plants, and state agencies for primary data collection? What experiments are being referenced here?	GIZ may facilitate (through MNRE and other stakeholders includes Pvt sector player). The assessment will be based on secondary data (approved by appropriate authorities) in case access to primary data takes longer time resources. However, we also expect the contractor to utilize their network to reach out to relevant stakeholders. Bidder needs to mention what data source they can ensure by their own immidiately.
3	Task 4: Techno-Commercial Feasibility Assessment	Is the contractor expected to develop a high-level decision-support framework, or a fully functional techno-commercial tool/model with user interface, scenario capability, and handover-ready usability for government stakeholders?	Yes, GIZ/MNRE expect the functional tool (based on approved decision-support methodology and framework) capable of creating various scenarios. The tool must be handed over to MNRE (or other pescribed institutes) for future use after carrying our necessary training and capacity building measures.
4	Task 5 In addition to the (national/sub-national) Government actors, the research organization is required to work in close collaboration with the critical state departments/agencies (such as Agriculture, Forestry, UBL, MSME etc), actors/stakeholders in bio-energy supply chain (i.e. manufacturers, technology users, traders, farmers, Farmer Producers Organizations etc (FPOs) etc). Designing LCA may also requires involvement of the following key stakeholders, to factor in their core expertise and experience. a. BIS and similar apex institutes b. Gas distributors/Oil Marketing companies etc. c. Financial Institutes, Investors, development banks d. Bi/multilateral agencies e. National / international think tanks f. Trade and commercial association working in/for bio-energy sectors	Will GIZ/MNRE facilitate access to these stakholders or would contractor be expected to conduct these reach outs?	Kindly see response to similar Query (No 2).
5	Task 5 Conduct at least two (02) sub-national and one national stakeholder workshop and targeted training sessions for Govt. officials, researchers, and industry participants on LCA tools and sustainability benchmarking.	Will GIZ support the contractor in convening workshops, roundtables, and stakeholder consultations with MNRE, state departments, BIS, OMCs, FPOs, and financial institutions, or is the contractor expected to independently identify, mobilize, and coordinate all stakeholders?	We expect the contractor to identify relevant stakeholders. GIZ may facilitate in reaching out to identified stakeholders. The follow up with all stakeholders will be the responsibility of the contractor.
6	Technical Eligibility Requirements The consultant must have a minimum of 3 reference projects and 1 reference project in India in the technical field of LCA of bio energy technologies and process modelling with a minimum commission value of 25000 Euros.	Given that this is a primary eligibility criterion, we recommend expanding it to include experience in conducting Life Cycle Assessments (LCA) across sectors such as Oil & Gas, industrial manufacturing, and related industries, irrespective of the engagement value. We look forward to your confirmation on this.	GIZ expects at least one LCA experience in bioenergy sector using the advance LCA tool/methodology. Bidder needs to share technical/methodological details of such experience. However, considering market competativeness, a lower commission value projects will also be considered.
7	Task 2 Quantify midpoint and endpoint environmental indicators including GHG emissions, water use, land use, acidification, eutrophication, and human/ecosystem impacts using established LCA tools (e.g., SimaPro, GaBi).	Can open LCA/excel based models be used for quantifying the environmental indicators?	The bidder must use advance and standard modeling tools/platforms. Open source tools will be preferred, without compromizing the quality.
8	Develop detailed mass and energy balances for selected biomass-based following technologies (this list is indicative and not exhaustive): o Compressed biogas (CBG) o Biomass-to-green hydrogen (gasification and pyrolysis routes) o Biomass briquettes / pellets for industrial heat and co-firing applications o Biomass cogeneration (loose and densified feedstock) o Biomass to power, 2G ethanol, green methanol, and sustainable aviation fuel.	Could you please provide an exhaustive list, as this will help us accurately estimate the commercial effort required, particularly with respect to the scope and level of data collection involved.	GIZ expect the bidder to prepare an exhaustive list after considering the given person days and time line.
9	Submission deadline - April 16th	Considering the financial year-end and our commitment to submitting a high-quality proposal, we kindly request an extension of the submission deadline until 21st April.	The submission deadline stands extended till 21st April, 2026.
10		We would like to seek your kind consideration regarding the eligibility criterion under Technical Requirements, which specifies: “The consultant must have a minimum of 3 reference projects and 1 reference project in India in the technical field of LCA of bio energy technologies and process modelling	Criteria remain same
11		Request that this condition (bidder to be a Companies Act-registered entity) be waived to create a level playing field for maximum bidder participation	Bidder must be legally registered enity of India