

Annex VI
ANNUAL INTERIM NARRATIVE REPORT

Table of contents

Sl. No.	Contents	Page No.
	List of acronyms used in the report	02
1.	Description	03
2.	Assessment of implementation of Action activities	03
2.1	Executive Summary of the Action	03
2.2	Results and Activities	06-14
2.3	Log frame Matrix Updated	15-19
2.4	Action plan for the future activities	20
3.	Beneficiary(ies)/affiliated entities and other cooperation	21-22
4.	Visibility	22
<i>Annexures</i>		
1.	Activity Report	
2.	Case Stories	
3.	Convergence	
4.	Mobile App Analysis Report	
5.	Photo Gallery	
6.	Media coverage	
7.	Gender Report	
8.	Programme Summary	

List of acronyms used in the report

RACE- Rural Access to Clean Energy

CES - Clean Energy Solution

CSO- Civil Society Organization

CBO- Community Based Organization

PRI- Panchayati Raj Institution

AWC- AnganWadi Centre

VCES - Village Clean Energy Solution

BCES- Block Clean Energy Solution

DCES- District Clean Energy Solution

SCES - State Clean Energy Solution

VCEC- Village Clean Energy Committee

BDO- Block Development Officer

DPM- District Project Manager

HH- Household

FGD- Focus Group Discussion

SMC- School Management Committee

SHG- Self Help Group

SAR- Situational Analysis Report

BLS - Base Line Survey

NGO- Non-Governmental Organization

QRM- Quarterly Review Meeting

HM - Head Master

SAR- Situational Analysis Report

NITI Aayog- National Institute for Transforming India

JREDA – Jharkhand Renewable Energy Development Authority

UNDP- United Nations Development Programme

TERI- The Energy and Resources Institute

WRI- World Resource Institute

CEED- Centre for Environment and Energy Development

JSLPS- Jharkhand State Livelihood Promotion Society

ACAP TOOL - Accessibility, Communication, Attitude and Participation Tool

1. Description

- 1.1. **Name of Coordinator of the Grant Contract:** Life Education and Development Support (LEADS)
- 1.2. **Name and Title of the Contact Person:** Mr. Mahendra Kumar, Project Manager, Rural Access to Clean Energy (RACE)
- 1.3. **Title of the Action:** Rural Access to Clean Energy (RACE)
- 1.4. **Contract Number:** CSO-LA/2017/392-537
- 1.5. **Start Day and End Day of the Action:** 1st April 2019 to 31st March 31st March 2024
- 1.6. **Target Country(ies) or region(s):** India, Jharkhand
- 1.7. **Final beneficiaries & / or target groups:** 500000 tribal people of 24 Blocks of 4 districts of Jharkhand, 250 additional CSOs

Note: After the changes in the FCRA norms on 29 Sept.,2020 LEADS is directly implementing RACE Project in the 24 blocks of 4 districts i.e. Ranchi, Khunti, Simdega and Gumla.

2. Assessment of implementation of Action activities

2.1. **Executive Summary of the Action-**

With a population of 1.3 billion, India has a massive demand for energy to fuel its rapidly growing economy. From a power deficit nation at the time of Independence, the efforts to make India energy-independent have continued for over seven decades. Today, we are a power surplus nation with a total installed electricity capacity of over four lakhs MW.

Keeping in mind the sustainable development goals, India's power generation mix is rapidly shifting towards a more significant share of renewable energy. Today, India is the world's fourth largest producer of renewable energy, with 40% of its installed electricity capacity coming from non-fossil fuel sources. The total installed renewable energy capacity is 168.96 GW as of 28.02.2023.

Installed Capacity of renewable energy in India					
Solar	Wind	Small hydro	Large hydro	Biopower	Nuclear
48.55 GW	40.03 GW	4.83 GW	46.51 GW	10.62 GW	6.78 GW

***According to data Ministry of New and Renewable Energy in India (09 SEP 2022)**

Being a developing nation at the time of Independence, India relied heavily on coal to meet its energy demands. However, India has always been committed to looking for more alternative energy sources for sustainable development. The beginning was made with hydropower, with major hydroelectric power projects appearing on the scene of India's energy arena. Over the years, many policy and regulatory initiatives have promoted hydropower development and facilitated investments. As of today, India has been ranked 4th in the world regarding usable hydropower potential.

India stands fourth globally in Renewable Energy Installed Capacity (including Large Hydro), 4th in Wind Power capacity & 4th in Solar Power capacity (**As per REN21 Renewable 2022 Global Status Report**). 14.21 GW of Renewable Energy (RE) capacities were added, during the period Jan to Oct. 2022 as compared to the capacity of 11.9 GW added during the period Jan to Oct. 2021. Total 151.94 BU have been generated from RE sources during the period Jan to Sept. 2022 as compared to the 128.95 BU during the period Jan to Sept. 2021.

Biomass has also been an essential source of energy for India. It is renewable, widely available and carbon-neutral and has the potential to provide significant employment in rural areas. Rapidly evolving technology has enabled thermal power plants to have more economical and energy-efficient operations. India has co-fired biomass in thermal plants across the country to reduce its CO₂ footprint in thermal power generation. Biomass power/co-generation programme since the mid-nineties. Over 800-biomass power and biogases/non-biogases cogeneration projects have been installed in the country for feeding power to the grid.

Promoting Clean Energy and Climate Change

India has progressively decoupled economic growth from greenhouse gas emissions. For example, the Net Zero Emissions target by 2030 by Indian Railways alone will reduce emissions by 60 million tons annually. Similarly, India's massive UJALA LED bulb campaign is reducing emissions by 40 million tons annually. To further complement these ongoing efforts, India launched the National Hydrogen Mission in 2013 to make India the world's largest hydrogen hub.

Even though it supports the second-largest population in the world, India's sustained efforts have ensured that its per capita CO₂ emissions are much lower than the global average. The US emits 14.7 tons per capita, China emits 7.6 tons per capita, while India's CO₂ emissions amount to 1.8 tons per capita.

The global power sector is undergoing an accelerated transformation due to technological innovations and response to climate change protocols. At COP-21 in Paris in 2015, India committed to a 40% share of power generation from non-fossil fuel sources. We have achieved this target a decade ahead of the 2030 timeline.

Energy Transition: Shaping a Green World

Promoting energy transition for accelerating low-carbon growth is a key priority of India's ongoing renewable revolution, and will figure prominently on the agenda of **India's G20 presidency**. Setting new benchmarks and targets, India has already declared that half of its electricity will be generated from renewable sources. For India, time-bound and affordable finance and a sustainable supply of technology to developing countries is essential for the inclusive energy transition. At the COP26 global climate summit in Glasgow in November 2021, where PM Modi introduced the world to the concept of "panchamitra: (five nectars). This five-pronged plan includes:

- India will reach its non-fossil energy capacity to 500 GW by 2030.
- India will meet 50% of its energy requirements from renewable energy by 2030.
- India will reduce the total projected carbon emissions by one billion tonnes from now onwards till 2030.
- By 2030, India will reduce the carbon intensity of its economy by less than 45%.
- By the year 2070, India will achieve the target of Net Zero. These 'panchamrit' will be an unprecedented contribution of India to climate action.

India has always shown its willingness in leadership to fight climate change. So far, 172.72 GW of capacity from non-fossil fuel sources has been installed in the country as on 31.10.2022. This includes 119.09 GW RE, 46.85 GW Large Hydro and 6.78 GW Nuclear Power capacities. This has a share of 42.26% of total installed generation capacity in the country i.e. 408.71 GW as on 31.10.2022.

Jharkhand is one of the largest producers of coal in the country. Jharkhand, a central Indian state, has the highest coal reserves in India with an estimated 83,152 million tons of coal – that is 27.3 percent of India's coal reserve, according to Jharkhand's economic survey. Jharkhand has one of the lowest installed capacities of renewable energy in eastern India with 97 Megawatt of clean energy production capacity. Jharkhand, while

on one hand hosts the country's largest coal reserve and is a key contributor towards the generation of thermal energy, on the other suffers from the shortage of energy and is still dependent on other states for electricity, including solar energy. In a move that will push India's claim to become a world leader and save the environment from the adverse effect of burning fossil fuel, the state has improved upon its earlier policy with the latest one, Jharkhand State Solar Policy, 2022. The state enjoys a unique topography where it has about 300 days of clear sky and direct Sunrays leading to high solar radiation. The government has made an innovative approach to tap this natural gift to scale up the production of solar energy and reduce the dependence on conventional energy sources. The policy defines annual solar targets for different project categories. The policy includes various enabling features such as innovative business models, incentive mechanisms, tariff mechanisms, demand creation frameworks, and a robust governance structure to achieve the 4000 MW capacity by 2027. With the revised Solar Policy of 2022, the government is giving a push to clean energy, especially solar energy. Under the new policy, it is targeting solar parks of 1700 MW capacity, floating solar (900 MW), solar canal top (400 MW) and solar rooftop (250 MW) in total in the next five years. It also plans to make 1000 solar villages with the help of decentralized and standalone small-scale solar plants.

As per the baseline survey conducted under the RACE project, the districts like Gumla, Simdega, Palamu, Garhwa, Latehar and Khunti, get power supply for less than 15 hours in a day. With the change in the climatic conditions and the heatwaves are roaring the cities during the summers where the overloading and frequent tripping of grids occur. So it's now the aling up with the goals of SDGs.

The RACE project supported by European Union in 4 Districts of Jharkhand is being implemented in Gumla, Khunti, Ranchi and Simdega. In course of time of 4 years to achieve, the objective of the project we have achieved almost completed all the activities with expected outcomes. Meanwhile during the project stakeholders sensitized, made aware and capacitated. Dialogues and advocacy on CES increased among multiple stakeholders. It also enhanced skills and entrepreneurship development among youth in clean energy sector. This all activities are slowly but eventually meeting the targets of SDG 7 and Indias pledge of zero carbon emission by 2070.

We are now in a position where further support and rigorous work in throughout the project are bringing change in the life of the community people and ultimately to a certain extend to the environment too. Convergence through the support of the Government line departments, LEADS is providing suggestion for adaptations of best practices in the sector of Clean Energy like Biogas, Solar Irrigation schemes, etc. The private research wings like United Nation Development Programme (UNDP), World Research Institutes (WRI), Selco Foundation, RAL, Sustain Plus, Power to All, CEED, IRADE, Shakti Energy Foundation, etc and solar solution providers like TATA Power, Delexe Enterprises, Rani Enterprises are approaching us for extending CES in the outreach operational areas for the best practices and technical suggestions for the implementation.

References:

- [Press Information Bureau.html](#)
- <file:///D:/New%20folder/G20%20University%20Connent-Primer.pdf>
- [After a slow pace, Jharkhand eyes mega projects to boost clean energy basket.html](#)
- [Jharkhand mine workers fear loss of jobs and social security.html](#)
- [Jharkhand_ Emerging Leader In Solar Energy.html](#)

2.2. Results and Activities

A. Results

At the end of the 4th year of the project, LEADS under the RACE project has come far across the mission, more than 80% completion of the task assigned. The expected outcomes are now be observed in the

intervention areas. The expected deliverables of sensitization and advocacy of Clean Energy has moved from implementing phase where various models were set up and its benefits are observed among the stakeholder. Either it is the smokeless chula for cooking, biogas unit for Cooking, Solar and LED bulb unit for home lighting and youth for entrepreneurship development. Community stakeholders, Govt. deptments are coming up for the support to adopt the best pactices adopted in the intervened areas.

LEADS has incepted and initiated this project in four districts namely Ranchi, Khunti, Simdega and Gumla of Jharkhand, which are tribal dominated districts and fall under 115 poorest districts (aspirational districts of NITI Aayog) of India. This report comprised of progress made in the crucial 4 years, the key learning and understanding developed among the community and govt. stakeholders. It provided us with the data of existing penetration of clean energy in the project area and the interventions that would be required to popularise clean energy and promote entrepreneurs in the project intervention areas. The draft report shared with the project partners, CSOs, and the state government authorities for their suggestions and input to enrich the documents for larger advocacy.

We keep on preparing basic project documents for each staff for their better understanding to capacitate and have better clarity about the project and its implementation. We are in touch with the media personal both electronic and print media to spread awareness about clean energy and the intervened area of the project among larger group. This provided a platform for spreading awareness about clean energy not just among the citizen but also the media persons, which would go a long way in culmination of the idea of clean energy and sustainability. The organisational structures at schools, village and block levels have been created which would help in smooth running of the project in a right based manner. The team has adequately responded the outputs, outcomes and impacts proposed for the 4th year.

Assessment of outcomes articulated under the project

Overall Impact: Availability, accessibility and affordability of Clean Energy Solutions (CES) to the rural tribal communities of Jharkhand have significantly increased.

Status of Associated Indicators and Achievements during Reporting Period: We have facilitated more than 48,000 HH tribal and marginalized families, to get clean energy supports like solar lantern, smokeless chullha (oven), solar-integrated smokeless chulha, LPG gas, solar based irrigation pumps, biogas support, solar lighting system, safe drinking water through overhead solar water tank, solar street lamps etc. form state government and other sources. The project targets to benefit 5, 00,000 such beneficiaries in 5 years out of which we have benefitted more than 4,86,227 beneficiary directly or indirectly. Thus, the project has begun strongly and expects to build on it with much penetrating future interventions. We have built awareness on available sources of clean energy and bring people closer to those resources. Hence, they are trying to get it and we facilitate that facility to reach to people. As a result the KUSUM Yojna where about more than 800 applications had been submitted at the Block Offices for the financial year 2022-23 out of which 516 applications has been selected, under Ujjwal Scheme where we have been able submit more than 750 application and have been able to fetch 532 LPG gas connections from the interventional districts of the project through our intervention have received.

Outcome 1.1: Sensitized, made aware and capacitated duty bearers, civil society organisations (CSOs), Panchayati Raj Institutions (PRIs) promote CES in 24 Blocks of 4 districts in Jharkhand.

Status of Associated Indicators: We have identified and listed all stakeholders of this project starting from the community to the state level and have conducted introductory as well as review meeting with them during the reporting period. The stakeholders include ward-members, mukhiyas of panchayats, block and district level nodal person for clean energy, JREDA (Jharkhand Renewable Energy Development Authority) officials, government schools, solar-based enterprises, media etc. We have started to conduct capacity building /
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sensitisation program for all stakeholders, which would be pivotal to the success of the project. We have covered Govt Schools, PRIs, School Management Committee (SMCs), and Govt. officials at Block level, district level and state level primarily to introduce the project and facilitate required support for smooth implementation of the project. This outcome will further improve and will reach to the target, when we move from 4th to 5th year of project and initiate lobby and advocacy for larger CES response by state.

Outcome 2.1: Increased multiple stakeholders' dialogues and advocacy on CES in the 24 blocks of the 4 districts of Jharkhand.

Status of Associated Indicators: As per the project guidelines baseline survey, sharing of Situational Analysis Report at block level, formation of Clean Energy Committees at village and block levels, networking workshop with Panchayati Raj Institutions, Skill training of youth, organisation of mobile van for spreading information, street play and dramas on CES issues, broadcasting Clean Energy jingles in the radio channels development and use of mobile application and website, spreading awareness on clean energy in government schools, and support to implementation of government programs related to clean energy has started to show their outcomes. As a result we have conducted State Level, District, Block, Panchayat and Village level Forum, Eco Club, Media Platforms and trained youths.

Outcome 3.1: Enhanced skills and entrepreneurship environment in clean energy sector.

Status of Associated Indicators: Skills training to 43 youths for master trainer has been conducted in 4 phases and 2290 trainees had been trained by these master trainers so far. Even special training for the youths have been conducted with Switch ON foundation on Solar assembly and installation. The selection of youth was being done by village level clean energy committees to ensure local participation, sustainability of the intervention and entrepreneurial promotion in clean energy among the youth.

Developments which impacted our work:

Panchayat elections held in the months of May 2022 have affected the govt. meetings, as they were busy in conducting the election. As the PRI, members did not want to take responsibility who were at the verge of ending tenure and the new elected representatives were unknown with the work process of the panchayat administration.

Assessment of Output Articulated under the project

Output	Activities Implemented
<p>Op 1.1.1 (related to Oc 1): At least 10 policies and schemes related to clean energy are identified and analyzed and gaps in the existing policies are shared with policy makers for necessary modifications</p>	<ol style="list-style-type: none"> 1. 2nd edition to the SAR identifying gaps in government policies and schemes and suggestions on them has been published and shared with the relevant government authorities and CSOs working for clean energy. As a result few of the suggestions have been accepted by the govt. 2. A position called Green Associate has been created at the district level that has been responsible for the research and development of clean energy at the intervened areas. 3. A jury panel has been created at State and district level to monitor the proper implementation of Clean Energy Schemes.
<p>Op1. 1.2: CSOs, PRIs, tribal youth and community members are mobilized and rights based replicable development models for promotion of clean energy are developed.</p>	<ol style="list-style-type: none"> 4. IEC Material – <ul style="list-style-type: none"> • Printed Media Engagement on Promotion of Clean Energy in Jharkhand. • Brochure of Solar based equipment servicing & maintenance 5. Website: Regular up gradation of day -to-day activity. 6. School Events: In this time period schools remained closed for most of the while 915 child centric activities conducted in the intervention schools. Through ECO club there were various

	<p>activities conducted under the project intervention school. Children based activities conducted in a participatory mode like slogan writing, drawing competition, poem writing etc.</p> <p>7. Wall Writing on CES issues: 116 Wall writing in the interventional areas had been done. Thus further increasing the spread of the work.</p> <p>8. Street Play and Dramas on CES issues: 122 street play and drama has been performed to make the people awarded about the benefits of clean energy.</p>
<p>Op 2.1.1: (related to Oc 2): Forum of CSOs is established at various levels for advocacy and lobbying and linkages between CSOs, PRIs, Government, private sector and community are strengthened</p>	<ol style="list-style-type: none"> 1. 963 Review meetings on Formation and strengthening of village level CES Forum have been conducted. 2. 49 Panchayat level networking workshops with PRIs members has been conducted. 3. Formation & strengthening Block level CES Forum in 09 blocks including extensive and intensive blocks has been done. 4. Formation & strengthening district level CES forum has been conducted in all the 04 districts i.e. Ranchi, Simdega, Gumla and Khunti district. 5. Green Business Challenge Summit cum Exhibition has been conducted where various Govt depts. like JREDA, CSOs, Enterprises and youth entrepreneurs had participated in the events with their various Clean Energy components.
<p>Op 3.1.1 (related to Oc 3): Nodal Manufacturing and skill training centre on CES are established</p>	<ol style="list-style-type: none"> 1. Organize skill Training for youth: 2290 have been trained under the three training modules. So far 4 skill training centres have been identified and training programs are carried out regularly. 2. Organize Mobile Van for Demonstration on CES: Customized mobile van equipped with Clean Energy technologies were moved in all the 4 blocks of the intervention areas. 3. Linkages with the Govt. financial program like Mukhyamantri Rojgar SrijanYojna, Mudra Loan, and Skill up India Program and also with the private CSOs like SELCO, Sustain Plus, etc. are ready for skill up the entrepreneurship model.

Activities Summary

A.1.1.1 Develop, publish and disseminate Situational Analysis Report (SAR) (analytical review) for policies, programmes, guidelines and schemes of the Government with regard to CES in tribal areas:

The second edition of SAR has been developed and published. The report has studied and highlighted the limitations of the policies and schemes on clean energy. The reports have been shared with the relevant government authorities and the CSOs working on clean energy at the State Level platforms. Various recommendations have been accepted by the State Nodal Agency related to Clean Energy.

Steering Committee Meeting:- Steering committee meeting was conducted on 13 June, 2022 at LEADS Conference Hall, Ranchi. Responsible persons from LEADS participated in the meeting. Meeting focussed on strategic planning, resolution of issues, progress reviewing and finance and administration of the project.

A.1.2.2. Accessible IEC Materials:- IEC materials play an important role in sharing the information to the mass media including Govt. Officials, PRIs, CSOs, Schools, VCEC etc. It enhances the visibility of the project.

We have prepared following IEC materials during the reporting period:-

- (1) Media Engagement on Promotion of Clean Energy in Jharkhand.
- (2) Brochure of Solar based equipment servicing & maintenance

A.1.2.3. Organize Street Plays and dramas:-As per the planned schedule street play & dramas conducted in the month of Nov. & Dec.2022 in the intervention areas of Ranchi, Khunti, Gumla and Simdega .Total of 122 street play and dramas was performed.

A.1.2.4. Organize wall-writings on CES issue:-Wall writing on thematically based issues on Clean Energy Solutions. Wall writing has been very effective in circulating an idea in the intervention area. It ensures motivating the populace towards CES. As planned, 116 wall-writings has been completed in the month of Nov-Dec.2022.

A.1.2.7. Develop and broadcast radio program on CES:-Script has been prepared and jingles were played in Radio Dhoom with frequency of 08 times per day for 30 days, whole together 240 times jingles played in the month of Nov-Dec.2022. The jingle captured the RACE Objective, Intervention Areas, Project Outcomes and youth skill training information and many more. This time it was broad casted in different FM channels like Big FM, Radio City, etc.

A.1.2.8. Organize School Events on CES:- School events have been carried out at full fledged, as the schools have been closed during the covid-19 .Due to this School level activities were not been able to carry on at the given time frame. So the process of sensitization school children and school administration on importance and necessity of clean energy solution various activities like drawing competition on Clean energy and environment, slogan writing, Bal Pratrika, plantation, kitchen gardening preparation, hand washing promotion, Clean Energy Bank, ECO Club etc was promoted in more than 300 government school of the intervention area whole together 915 such activities has been conducted in the 4 districts. For ensuring these activities being conducted regularly, School Management Committee has been constituted. Urja Volunteers are chosen among students to keep the students engaged with the clean energy and clean environment drive.

A.2.1.1. Formation and Strengthening of Village Level Clean Energy Solution:- Review meeting at VCEC are going on smoothly ,community are now aware of their responsibility and demands are coming village level Clean Energy Solution meetings. In this time frame we have conducted 963 meetings and along with 689 Gram Sabha & SHG Meeting across 4 intensive blocks of the four districts. This is one of the core activities, which had been initiated by the team in almost all Blocks of our intervention. The committee ensure that all the projects related to clean energy from state and national governments reaches to the beneficiaries at the village level. . The stakeholders are aware of the schemes of the central & state govt. The impact of the project is now clearly seen in the villages as the community are more aware of the ill effects of the smoke from the traditional cooking stove, limiting usage of incandescent bulb, lantern and adoption of clean energy in the form of smokeless chulha, LPG gas, LED bulb, etc.

A.2.1.2. Conduct Panchayat Level Networking Workshops with PRIs Members:-49 Panchayat Level Networking Workshops have been organised across the intervention areas. It establishes a link between the PRI and RACE partners and ensures that all the activities run smoothly which included sharing concept of CES, issues identification, linkages and convergence with government schemes and Panchayat plan and role

of PCES committee. Making people's representative sensitive about CES ensures greater penetration, better follow up, and sustainability of such interventions.

A.2.1.3. Formation, Strengthening Block level CES Forum:- Block level forum has been constituted and strengthening activity has been conducted in all the four districts Ranchi, Gumla, Simdega & Khunti and have moved from intensive to extensive block. Altogether 9 block level activities have been conducted so far. Such forum has ensures monitoring as well as dissemination of government schemes like, installation of solar water tank, solar street lights, solar lamps, etc to the rightful beneficiaries with RACE partners support. It ensures convergence between government plans and panchayat plans, and sensitises block level officials towards CES.

A.2.1.4. Formation, Strengthening District level CES Forum:-As per the planning 4 district level program has been conducted in all the 4 districts as the forums has been already created .So the strengthening of DCES has bring fruitful results as the sharing of various ongoing schemes is shared through the district level platform.

A.2.1.5. Formation, Strengthening State level CES Forum:- After conducting 3 state level meetings in the past 3 years, we could observe that various useful suggestions and recommendation have come through the meeting. State level program conducted in the month of March 2023, as per the plan and availability of the Govt. stakeholders and CSOs availability. It was done in presence of guests from JREDA, CEED, WRI, Mlinda and various other CSOs.PRI members, Media persons from various districts also actively participated. It was conducted centrally at PMU level with sharing project details, role and responsibilities of partners and RACE team. Focussed was laid upon the SDGs 7 and SDG 13 on access to clean energy and sharing of the best practices from the field.

A.2.1.6. Create and award Media Fellowship:-After creation of media platform through the Media Engagement Workshop past 4 years back, media fellowship is given to about 22 media partners for their research work in the field of Clean Energy for creating mass awareness among the people.

A.2.1.8:-Organize CES Summit cum Exhibition:- A CES Summit cum Exhibition has bring together products and services related to various Government schemes, CES manufacturers, service providers, private sector, etc. under one platform. The project has collaborate and partner with the Government, industry associations, state chamber of commerce, private sector, NGOs and foundations to jointly organise this event. Along with the display of products and services, parallel technical sessions will be organised to create awareness on Government schemes and innovative products related to CES. The exhibition was opened to public to see and experience various energy efficient products and services. The portfolio of different technologies like roof top solar system, solar water heating systems, solar home lighting systems, solar lanterns, solar irrigation pumps, solar mobile chargers, solar cookers, fuel efficient cook stoves, biomass briquette machine, biogas digester, biomass cooking solutions, solar hybrid RO plant, renewable energy based rural livelihood applications, LED solar torch, solar RO plant, solar Inverters, etc. will be showcased. The active participation of state Government has also reflect their positive attitude and commitment to combat energy poverty and build strong credibility among other stakeholders involved in the sector. After successfully conducting the event, it has potentially converted a sustainable income generating service for the state level CSO network, after the end of the program and will boost to create an ecosystem for better entrepreneur development. For the exhibition was supported by JREDA, JSLPS, UNDP, SELCO, WRI, CEED, Switich ON, Genyself, Rani Enterprises, Sunson Enterprises, TERI, RAL and various other SHG groups with their products.

A.3.1.1:- Establish Nodal Manufacturing and skill Training Centre:-As far as the establishment of nodal manufactures and skill-training centre is concerned, we have executed following activities, which are as follows:

- **4 Solar and LED Assembling Unit** have been set up where rural youths, men and women associated with LEADS were trained .As a outcome they have been assembling solar equipment and earning their livelihood by promoting and selling. So far more than 3500 Solar light and LED bulbs has been sold from these units and the entrepreneurs associated with it are finding it as a source of income.
- **4 Biogas Digester Plant** has been set up, which is spreading the message about the important and need of Biogas plant at household level and now community members are gradually adopting this at their household.
- **2 Ragi Processing Unit** has been set up and are being successfully run by the women entrepreneurs.
- **7 Solarised Common Service Centre** has been set up which is providing services to rural community at their doorsteps in spite of absence of electricity by securing the livelihood of rural youths.
- **2 Mushroom production units** have been set up which is securing the livelihood of rural women and uplifting their per capita income. By this, women are aware and adopting this medium of livelihood and uplifting their level of income.
- **1 Spice Processing Unit and 2 Xerox Machine Centre** has been set up for the multilevel generation of income.

A.3.1.2:- Organize Skill Training of Youth: - For ensuring sustainability of the project, 43 youths from the intervention area, it has been imparted training over clean energy for the role of master trainer. They have been trained on the subjects of manufacturing & assembly of energy efficient cook stoves, access to finance and enterprise financing for CES and marketing & selling of solar lights and rural spark energy kits. We have successfully conducted training and have achieved the target of training 2000 youth has crossed; we have trained 2290 youths in the field through these master trainers. They are getting entrepreneurial opportunities and are creating employment. This step is crucial for long-term sustainability of the intervention in the areas of RACE project.

A.3.1.3:-Organise Green Business Challenge (GBC):- After working on awareness generation, skill development and capacity building on CES, the project has provided seed funding support to 33 entrepreneurs so far, which have been selected from 100's of applications received from different districts of Jharkhand. These entrepreneurs are earning Rs. 3000 to Rs. 15000 per month from the business started. The process was started from the road shows, advocacy programs, application submission for business in Clean Energy, selection of candidates and monitoring the work progress of the entrepreneurs.

A.3.1.5:-Organise Mobile Van for CES Demonstration:-Mobile Van for CES demonstration is a regular process, which is regularly carried out in the field .The mobile van has been used for 168 days in field to create awareness about the objective of the RACE project and the schemes going on the State and central govt.

Other Activities:

1. **Monthly Staff Meetings:** Total of 62 staff meetings has been conducted in the given period of 12 months. As during the period, we have been conducted physical and online meetings. This was done by both at PMU and field levels routinely to ensure coordination and regular sharing of information both top-down and bottom-up and monitoring of the project.

2. **Quarterly Monitoring Visit:** Total 18 Monitoring visit has been conducted by LEADS PMU team, apart from this 3 other field visits have been also conducted. The report was shared with the DPM's and the PMU team for follow up and also discussed during project review meeting. These visits provide an opportunity for community interaction, staff performance review, reporting and documentation, technical and conceptual inputs. This enables the PMU to develop fresh modalities to ensure that everybody rides the ship of progress while contributing to ultimate objective of people's welfare.
3. **Website updating:** Website plays an important role in sharing the information to the Govt. Stakeholders, CSOs, PRIs and the community. Various useful information's regarding schemes and provisions of the current Govt. are being shared through the portal, case stories from the field and the upcoming and ongoing event are shared to the people for better understanding. Website on Clean Energy Solutions has been developed with the address www.racejharkhand.org. This online presence provides a platform not just to disseminate information on clean energy but also to update activities and associated data along with demonstrating achievements of the intervention.
4. **Develop and CES mobile app:** For dissemination of information and for recording the progress of the actives of the project, mobile application has been developed and regular update of day to day activity is shared from the field. It has been a useful tool for tracking of events centrally. So far more than **53,004** entries has been completed, and we have benefitted more than **486,227** people directly or indirectly from the project.
5. **Development of Smokeless Chulha (stove):** The smokeless chulha, which was started from making at the skill training, has reached about the more than 1023 HH and trained more than 1907 women who had been trained.
6. **Application of Demand Generation:** Advocacy and awareness has been the most important activity of the project. Keeping this in mind we have received more than 4000 application on the various issues at the community levels, which are as follows:

Maintenance of Solar Street Light	119
Maintenance of Solar Water Tank	112
Ujjwala Gas Connection	876
Demand of Electrical Connection	51
Demand of New Solar Water Tank	171
Demand of Solar Integrated Efficient Cooking Stove	410
Use of Solar Lamp	854
Construction of Smokeless Chulha	330
KUSUM Scheme	835
Drip Irrigation	568

7. **Janta Aapke Dwar (Govt. at Your Doorstep):** LEADS has actively participated in the program at Janta aapke dwar, where demand application from the community was submitted at the different line departments related to various beneficial schemes of the Govt. were available at the spot events. Either it be of solar water tank, solar irrigation pump, solar street lights, drip irrigation, roads connection, electricity connection, Ujjwala scheme or any other residential or caste certificate issues. More than 22 events were organised in the 4 districts were more than 2500 applications were submitted. In this 60% of the demand were resolved. This was conducted in the month of October-November 2022.

- 8. KUSUM Scheme & Agriculture:** LEADS with its repo in the intervention field for providing handholding support to provide solar water pump and relation with the line departments at the block level was able to submit 835 applications, out of which 537 applications have been accepted.

Activities Implemented during reporting period at a Glance (1st April 2022- 31st March 2023)

Activities	No. of activities	Duration	Venue	Descriptions	Participation					
					Male	Female	Pw D	Single women	Old age	Total
VCEC Meeting	963	827Hrs	Village Level	Discussed about concept of Clean Energy, CES, Functions of VCEC, Structure, Govt. schemes, role of Urja volunteers .	7927	12479	02	04	03	20415
Panchayat Level Meeting	49	108 hrs	Panchayat Bhawan	Sharing concept of CES, Issues identification, linkages and convergence with govt. schemes and Panchayat plan. Role of PCES committee.	1099	914	-	-	01	2014
School Level event	915	2123Hrs	School level	Discussed about clean energy and its benefits	8476	6846	-	-	-	15322
Gram Sabha	365	735 Hrs	Village level	Discussed about concept of Clean Energy, CES, Functions of VCEC, PCES Structure, Govt. schemes.	5849	2753	-	-	-	8602
Block Level meeting	09	36Hrs	Block office	Sharing concept of CES, Issues identification, linkages and convergence with Govt. Schemes and Panchayat Plan.	323	215	02	05	02	547
District level meeting	04	16Hrs	District Conference Hall of Khunti,Sindega,Ranchi & Gumla	Sharing concept of CES, Issues identification, linkages and convergence with Govt. Schemes and Panchayat Plan.	185	104	01	02	01	293
Staff Meeting	62	135 Hrs	PMO,District Office	Covered target and achievement review, role and responsibilities, technical input and action plan.	322	253	-	-	-	575
Monitoring Visit	18	90 Hrs	Village of the intervention areas.		32	08	-	-	-	38

2.3: LOGFRAME MATRIX UPDATED

Activities Implemented during reporting period at a Glance

Submit an updated version of the Log frame matrix, highlighting the changes eventually introduced.

	Results chain	Indicators	Baseline	Current value/Achievement during reporting period	Targets (incl. reference year)	Targets (incl. reference year)					Sources and means of verification	Assumptions
			Reference year 2019	Reference date 1 st April, 2022- 31 st March 2023		Y 1	Y 2	Y 3	Y 4	Y 5		
Overall objective: Impact	Clean Energy Solutions (CES) are available, accessible and affordable to the rural tribal communities of Jharkhand	No. of HHs (men & women) using CES (for eg: solar irrigation pumps, solar lights, fuel efficient stoves, biomass briquettes etc) in project area GAP II Indicator: 16.8.N# of women of all ages provided with access to sustainable energy services with EU support (EURF) SDG 7.1.1 Proportion of population with access to clean energy services	<ul style="list-style-type: none"> 21% of the HHs are using solar lights. 12.29% of HHs have LPG. 15% solar street lamps are functional. 8.8% overhead drinking solar water tanks have been installed with panchayat fund. 1.5% families are irrigating using solar irrigation pump. 0.5% school children are using solar lamp for studies. 55% families are getting safe drinking water using solar water tanks. 0.5% families are using smokeless chulha. 	<ul style="list-style-type: none"> 2189 HHs are using solar lights Till now a total of 2132 students of 62 schools are using solar water tank. 532 HH have received LPG connection under UjjwalaYojna. 38 solar overhead water tanks have been installed with Mukhiya Fund. 10 HH families are irrigating their land through solar Irrigation pump 158 new smokeless chulha has been installed. 97 Solar water tank has been repaired by combined effort of VCEC, Block,PHED or mukhiya fund. 91 applications has been submitted. HarGhar Jal NalYojna- 385 HH 	<ul style="list-style-type: none"> At least 500,000 HHs will have access to and will be using CES technologies by the project end. 	1	1	1	1	0	<ul style="list-style-type: none"> Household (HH) level survey using Mobile App <ul style="list-style-type: none"> - Baseline - Mid-line - Endline 	<ul style="list-style-type: none"> Jharkhand state government is willing to invest on new CES technologies;
	Specific objective (s): Outcome	Oc 1.1: Sensitized, aware and capacitated	Number of Suggestions in Situational Analysis report (SAR) that are considered	SAR is under the process of development.	<ul style="list-style-type: none"> Suggestions related to policies, services, delivery mechanism, 	At least 20% suggestions are considered by the	0	5 %	8 %	10 %	12 %	PRI formal documents and records of

	<p>duty bearers, civil society organizations (CSOs), Panchayati Raj Institutions (PRIs) promote CES in 24 blocks of 4 districts in Jharkhand</p>	<p>by the government Authorities at various levels Number of PRI members that include CES in their development agenda</p>		<p>monitoring and follow-up system, sustainability, convergence, grievances redressal cell at state, district and block level have been made in Situational Analysis Report which has been discussed with the government authorities has been resolved .</p> <ul style="list-style-type: none"> • A steering committee has been formed comprising of state and district officials .A separate post has been created called Green Associate who would be looking after the schemes of Central and state govt.on Clean Energy. • We have CSOs network on different issues like education, livelihood, health, gender etc all over Jharkhand and we are identifying potential and like-minded CSOs in four districts namely Ranchi, Gumla, Simdega and Khunti. Till date we have identified 25 CSOs for replicating model of Clean Energy Solutions. • PRIs like 49 Mukhiyas, 74 Gram Pradhans, 87 Wards and 11Gram Sewaks have been sensitised for CES. They have accepted applications of community on different issues. They have also promised to resolve the issues once next year's panchayat fund is received. • 28 solar lights have been installed in 16 schools and the community level. • 7 applications approved in 15 schools for installation of water tank. • ECO Club has been formed in 118 schools. 	<p>Government At least 250 PRI members include CES in their development agenda</p>	<p>4 0</p>	<p>8 0</p>	<p>8 0</p>	<p>5 0</p>	<p>0 0</p>	<p>government orders related to CES Government reports on fund allocation to CES at state level</p>	
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	Oc 2.1 : Increased multiple stakeholder dialogues and advocacy on CES in 24 blocks of 4 districts in Jharkhand	Number of grant applications on CES made by CSO which are recognized/ considered by the Government	The data would be provided post formation of district level CES forum.	720 Applications related to repairing of solar street light, solar water pump, installation of solar water pump ,new LPG gas connection through UJWALA Scheme and water and sanitation problem has been submitted to Gram Panchayat by village level Clean Energy Committee.	At least 10% of the applications made by CSOs are recognized/ considered by the government	0 %	3 %	4 %	10 %	12 %	CSO records of government responses to their grant applications Newspaper clips, media reporting	Willingness, cooperation and receptiveness of government officials and policy makers Media gives due importance & coverage to corresponding developments with CES
	Oc 3.1 : Enhanced skills and entrepreneurship environment in clean energy sector	Number of CES entrepreneurs (men & women) working in the target districts Number of Micro-finance institutions (MFIs) providing micro-finance to CES businesses/ entrepreneurs Number of new Private sector engaged in CES in the area	0.65 % entrepreneurs are working for CES. No MFI are financing CES business presently. 11 companies are engaged in providing CES.	<ul style="list-style-type: none"> • 568 UrjaMitra from 4 districts have been identified. They have facilitated village level Clean Energy Committee meeting; where they have proposed resolve village level issues. They will be promoted as Clean Energy Entrepreneur when skill development training is imparted to them. • We have identified private companies like RAL,Photon Galaxy, S. P. Eco Fuel, BIO TECH INDIAetc which are working for solar lights and equipments supply. We have built good relation with them. They are interested to work in RACE project. 	<p>An increase of at least 50 CES entrepreneurs (men & women) by the project end</p> <p>At least 5 MFIs start investing on CES in the area</p> <p>At least 5 private sector players engaged in CES in the area</p>	0	8	1	2	4	Testimonials and stories as collected by the project (midterm and end year) through AKVO RSR tool	Adequate entrepreneurs are available and interested in addressing CES

<p>Outputs</p>	<p>Op 1.1.1 (related to Oc 1): At least 10 policies and schemes related to clean energy are identified and analysed and gaps in the existing policies are shared with policy makers for necessary modifications Op1. 1.2: CSOs, PRIs, tribal youth and community members are mobilized and rights based replicable development models for promotion of clean energy are developed.</p>	<p>Number of interface meetings conducted by CSOs with District and State government representatives to share Situational Analysis Report (SAR) on CES in Jharkhand Number of interface meetings conducted by CSOs for representing CES issues to the Government department and State ministries</p>	<p>2 SAR reports has been shared. None</p>	<ul style="list-style-type: none"> We have shared details of the RACE project with the existing CSOs forum during its meetings but formal meeting with CSOs would be conducted in the next year. We are Clean Energy network with the various CSOs working in Clean Energy Sector and share out best practices and findings with the State and Central Govts. Clean Energy Solution Models in our project intervention areas are setting example for the CSOs now the govt .depts. and organisations like Deolite, WRI, HCI, CEED, Welspun and community stakeholders visits the models that has been created . Mukhiyas and Panchayat Sewika have accepted applications of community on different issues. They are resolving the issues with the 15 finance funds that has been allotted. 33 UrjaMitra from 4 districts have been started their business and are running it successfully with income ranging from Rs. 3000 to Rs.15000 per month. 	<p>At least 150 interface meetings each done by CSOs with Block, district and state government authorities in year 2 and 3 to share SAR At least 300 interface meetings on CES issues are conducted by CSOs with Government and state ministries</p>	<p>8 0</p>	<p>8 0</p>	<p>4 0</p>	<p>4 0</p>	<p>7 5</p>	<p>8 8 0 0 5</p>	<p>Meetings and minutes and register records of CSOs Meeting minutes</p>
<p>—</p>	<p>Op 2.1.1: (related to Oc 2) Forum of CSOs is established at various levels for advocacy and lobbying and linkages between CSOs, PRIs, Government, private</p>	<p>Number of PRI representatives trained and mobilized in the project area Number of forums discussing CES issues at village, block, district and state level Number of private sector and MFIs related to CES actively participating in</p>	<p>None None None None</p>	<ul style="list-style-type: none"> 261 PRIs (49 Mukhiya, 27 Panchayat Samiti members and 96 Ward members, 15 panchayats sewak , 74 gram pradhan) participated in panchayat level workshop on CES. 963 village level CES forums 49 Panchayat level CES forums have been formed to discuss CES issues. . 4 Block Level CES forum 4 District Level Forums 12 companies like Luminous, SUNSON Enterprises, Home Biogas, Pragati Bio and Renewable Energy, RAL, Photon Galaxy, S. P. Eco Fuel, BIO TECH INDIA, Rani Enterprises, and DESI 	<p>At least 464 PRI representatives trained and mobilized on CES At least 343 village level forums, 4 block level forums, 4 district level forums and one state level network highlight CES issues. At least 50 private sector and MFIs related to CES</p>	<p>5 0 0</p>	<p>2 0 0</p>	<p>2 0 0</p>	<p>1 0 0 0 0</p>	<p>0 0 0 0 0</p>	<p>0 0 0 0 3</p>	<p>Attendance sheets, testimonials of PRI representatives registered on Mobile App interview reports (at village, panchayat, block, district and state level) Workshop/consultation/ event reports</p>

	sector and community are strengthened	forum events Number of clean energy related events jointly organized by CSOs, private sector and government		Technologies are now the part of the forum <ul style="list-style-type: none">JREDA, UNDP,WRI, CEED,TERI ,SELCO, DEOLITE,Power for All ,Switch ON we are currently working in coordination for various programs.	participate actively in forum event in 3 rd and 5th year. At least 2 CES state summits cum exhibitions are organized jointly by CSOs, private sector and government	0	0	0	0	0	0	Summit reports/proceedings	
Op 3.1.1 (related to Oc 3): Nodal Manufacturing and skill training centre on CES are established	Number of people (men & women) access CES (solar lights/ biomass/ briquettes) through the nodal centre .	None	None	<ul style="list-style-type: none">1,17,908 are taking advantages of different clean energy solutions like, solar lights, solar irrigation and overhead water pump, smokeless chulha, KusumSchemes, etc.	At least 2500 people access CES through the nodal centre. At least 2000 youth receive skill training on CES by the end of Year 4 At least 10 young entrepreneurs (start-ups) who have received seed funding from CES GBC have complete business plan for pitching At least 10,000 people use mobile app or smart SMS for CES enquiries	0	0	1	1	0	0	Register and records of the	
	Number of youth skilled on CES in the project area.	None	None	<ul style="list-style-type: none">33 Youths have been awarded with seed money for development as CES entrepreneurs		0	4	8	8	0	0	Nodal centre Interaction with entrepreneurs	
	Number of young entrepreneurs (start-ups)-men & women who develop business plans around CES to pitch to potential investors.	None	None	<ul style="list-style-type: none">Presently field staff are utilising the mobile app for recording data and further information sharing would be done with linkage from the website.		0	0	4	6	0	0	Data analytics of mobile app	
	Number of people (men & women) using mobile app and smart SMS technology for availing information and services related to CES			<ul style="list-style-type: none">Community level information is being shared like demonstration, movies local songs,radio broad casting, posters, announcements and pamphlets.		0	2	3	4	4	0		
						0	0	0	0	0	0		
						0	0	0	0	0	0		

2.4: Please provide an updated action plan for the future activities of the project

Year 5– 1 st April 2023 to 31 st March 2024													
Activity	Half-year 7						Half-year-8						Implementing body
	1	2	3	4	5	6	7	8	9	10	11	12	
Steering Committee Meeting													

A.1.2.2: Accessible IEC material development													LEADS
A.1.2.4: Organize wall-writings on CES issues in Extensive and intensive villages													
A.1.2.8: Organize school events on CES													
A.1.2.9: Capacity building trainings for project staff													
A.2.1.1. Formation & Strengthening of Village CES Forum (VCES)													
A.2.1.2: Conduct Panchayat Level Networking workshop with PRI Members													
A.2.1.3 Formation & Strengthening of Block CES (BCES)													
A.2.1.4 Formation and Strengthening of District CES (DCES)													
A.2.1.5 Formation of State CES Network(SCES)													
A.2.1.6 : Create and award Media Fellowship													
A.2.1.8:Organise CES Summit cum Exhibition													
A.3.1.2: Organize Skill Training for youth													
A.3.1.4:Providing Seed Funding Support													
A.3.1.5: Organize Mobile Van for CES Demonstration													
End Term Evaluation													

Note: The green shaded cells are the activities will be carried out in the respective months

3. Beneficiary(ies)/affiliated entities and other cooperation

3.1 How do you assess the relationship between the beneficiary (ies) /affiliated entities of this grant contract (i.e. those having signed the mandate for the coordinator or the affiliated entity statement)?

Please provide specific information for each beneficiary/affiliated entity

Response: The gap between the community and the govt. stakeholders has been reduced by the intervention of LEADS under the RACE project. Community have developed faith in the govt. schemes as it was believed that the schemes are only for the people who have good terms with the govt. officials as the needy people are now getting benefits of the schemes and the medium of applying for the schemes had been made easy.

3.2 How would you assess the relationship between your organisation and State authorities in the Action countries? How has this relationship affected the Action?

LEADS is a professionally managed credible organisation in the state and also provide leadership to various state and national forums. LEADS is working with State Govt. in various projects and A K Singh Director, LEADS is committee members in various state committee and provide input to ministry of finance, ministry of rural development and ministry of education. LEADS is member of GCAP Asia and Convener of Wada Na TodoAbhiyan (WNTA), India which is largest network of CSOs in the country. This identity has connected LEADS with government's different developmental departments.

We are closely working with Jharkhand Renewable Energy Development Agency (JREDA), Jharkhand State Tribal Co-operative Development Corporation Ltd. (JSTCDC) and Jharkhand State Livelihood Promotion Society (JSLPS), which is responsible to promote clean energy, financial support for entrepreneurship development and livelihood in Jharkhand. The respective departments are supporting us as and whenever required and working together in various occasions either it be KUSUM Scheme, Drip Irrigation, Ujjwala Scheme or it be the Covid-19 relief. LEADS has coordinated with JREDA and the community for the advocacy of their KUSUM scheme where more than 800 applications had been submitted to JREDA for the financial year 2022-23 for KUSUM Scheme and more than 50 applications for Mudra Loan.

3.3. Where applicable, describe your relationship with any other organisations involved in implementing the Action:

- **Associate(s) (if any):** NA
- **Contractor(s) (if any):** NA
- **Final Beneficiaries and Target groups:** We have provided benefit to more than **4,86,227** people from the community directly or indirectly. We are keen to provide all possible support to our stakeholders in the field to reach effectively to all 500000 beneficiaries proposed under the project.
- **Other third parties involved (including other donors, other government agencies or local government units, NGOs, etc.):** Jharkhand State Tribal Cooperative Development Corporation Ltd. (JSTCDC) a govt. body is providing financial aid to the youths for business development, SELCO is associated with various other business establishments on solar energy in Jharkhand where it has supported in installation of Potter's wheel in the Namkum Block, Ranchi and Torpa Block of Khunti District, TERI has assisted in provided solar integrated efficient cooking stoves, SwitchON is providing skill training of Solar Assembly & Installation.

3.4. Where applicable, outline any links and synergies you have developed with other actions.

LEADS has initiated converging with other solar based support and as a result, we have linked more than **4.8 lakhs** people in a span of four years with renewable energy schemes/clean energy schemes. LEADS has skilled and developed resource person on manufacturing of Solar and LED lights, trained youths for the electrical and mechanical maintenance of Solar equipments and on smokeless chullha which consume less fuel as compared to the traditional cooking stove. We have promoted large number of such smokeless chullha in our location. We are also facilitating to get LPG gas connections to each family where ever we get such opportunity under the UJJWALA 2.0 Scheme. Integrated solar efficient cooking stove is being provided in association with TERI, which has resulted into near 1200 such cook stoves being distributed among the villagers in Gumla district.

3.5. if your organisation has received previous EU grants in view of strengthening the same target group, in how far has this Action been able to build upon/complement the previous one (s)? (List all previous relevant EU grants)

Response: LEADS received the EU support but for the Good Governance project and not on the same line and for the same area. We got support in partnership with WHH, Netherlands.

4. Visibility

How is the visibility of the EU contribution being ensured in the Action?

Response: For visibility of the EU logos at all publications, IEC mobile van, banners and resource materials are used. We duly acknowledge the EU contribution in all spheres of this project implementation starting from community to state level. Along with that broadcasting through the radio channels, we shares detail description of EU supporting the project.

The European Commission may wish to publish the results of Action. Do you have any objection to this report being published on the Europe Aid website? If so, please state your objections here.

Response: No Objection

Name of the contact person for the Action: Mahendra Kumar, Project Head

Signature:

Location: Ranchi, Jharkhand, India

Date report due:

Date report sent: