

FORMAT FOR SUBMISSION OF PROJECT PROPOSALS

ACCELERATED DEVELOPMENT OF PARTICULARLY VULNERABLE TRIBAL GROUPS (PVTGS)

PART I – GENERAL INFORMATION

1. Project Title: Addressing different challenges of Konda Reddy Tribe through sustainable interventions

2. Name of the targeted PVTG and Location of Project Area (State and District):

- Konda Reddy Tribe located in Aswaraopeta, Dhammapeta mandal of Bhadradi Kothagudem district

3. Name of the Institution & Address:

4. Type of Organization/Institution:

<i>Type</i>	<i>Please Tick</i>
Academic institution	✓
Research Organization	
State S&T Council	
Voluntary Organization/NGO	
Panchayati Raj Institution (PRI)	
Krishi Vigyan Kendra	
Other (please specify)	

Note: Collaborative proposals will be generally encouraged

5. Collaboration, if any:

<i>Sl. No.</i>	<i>Name and Address of the Collaborators</i>	<i>Purpose</i>
1.		

6. Details of the Project Team (details of all the investigators should be given)

i. Principal Investigator	
Name	
Date of Birth	
Highest Qualification	
Designation	
Department	
Institute/University	
Complete Address with Pin Code	
Telephone and Fax Numbers	
Mobile Number	
E – Mail	
ii. Co Investigator	
Name	
Date of Birth	
Highest Qualification	
Designation	
Department	
Institute/University	
Complete Address with Pin Code	
Telephone and Fax Numbers	
Mobile Number	
E – Mail	

7. Whether your organization has been sanctioned DST projects or by other central/state government or from foreign funding agencies in the past (up to 5 years)? YES/NO. **If yes, provide details as given below**

(i) Details of ongoing/completed projects of the investigator(s) during the last 5 years

Sl. No.	Name of the project and Reference No	Funding Agency/Division	Cost & Duration	Status

(ii) Details of ongoing/completed projects of the Institute during the last 5 years

Sl.	Name of the project	Funding	Cost & Duration	Status

No.	and Reference No	Agency/Division		

8. Whether, your organization is receiving core support from SEED, DST? Yes/No. If yes, indicate whether activities of the present proposal are covered under the approved activities of core support provided to your organization by SEED, DST? Please also give a list of approved activities under Core Support.

Sl. No	Objectives (give all the objectives)
1.	Establishment of YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
2.	Documentation of literature, indigenous knowledge of Konda Reddy Tribe
3.	Establishment of Tribal Hub, development and dissemination of portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
4.	Design intervention for handicrafts
5.	Development and dissemination of Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
6.	Development and dissemination of Solar powered 4 seater e-cycle
7.	Development and dissemination of Low cost tobacco free electronic cigarette
8.	Development and dissemination of Low cost drone for aerial transportation of medicine
9.	Development and dissemination of Thermosolar AI enabled flow bee hive for apiculture
10.	Development and dissemination of Pre-fabricated steel house with bamboo with solar lantern and bio toilet
11.	Conducting of social impact assessment (SIA) of interventions, different schemes and developmental projects of government
12.	Conducting of capacity building training programmes to promote government schemes and training programmes to help to get job in local industries
13.	Dissemination of interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
14.	Conducting of census of population to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy Tribe

(Note: Core supported groups must ensure to avoid duplication of activities approved under core. However, proposed intervention /objectives as a new proposal for identified core activity towards innovative interventions may be considered).

9. Whether project activities require any clearance from relevant authorities in respect of any environmental/legal/ethical issues? Yes/No
No.

10. Duration (months): 3 Years

11. Total Cost (in Rs): INR 16,609,060/-

(a) Recurring Cost (in Rs): INR 14,081,120/-

(b) Non-recurring Cost (in Rs): INR 4,927,940/-

12. NGO Darpan ID (in case of NGOs/Private Academic Institutions) and Unique Code in PFMS:

PART II – TECHNICAL DETAILS OF THE PROJECT

1. Project Title: Addressing different challenges of Konda Reddy Tribe through sustainable interventions

2. Details of the target beneficiaries (should correspond with the details given in Annexure-I)

<i>Sl. No</i>	<i>Name of the PVTG</i>	<i>State</i>	<i>District</i>	<i>Block</i>	<i>Village</i>	<i>No of Beneficiaries</i>
1	Konda Reddy	Telangana	Bhadradri Kothagudem	Aswaraopeta, Dhammapeta		1,016

3. Profile of the Project Area:

(a) Give details of geographical area, climate, land use pattern & cropping patterns, availability of natural resources & raw materials (relevant to project interventions)

- Geographical area
Aswaraopeta and Dhammapeta mandal of Bhadradri Kothagudem district in Telangana state.
- Climate
A Tropical wet and dry or savanna climate (Classification: Aw). The yearly temperature is 30.73°C (87.31°F) and it is 4.76% higher than India's averages. Typically receives about 147.76 millimeters (5.82 inches) of precipitation and has 135.35 rainy days (37.08% of the time) annually.
- Land use pattern
In between forest land, some Konda Reddis engage in shifting slash and burn cultivation (Podu) of small millets, edible fruits, nuts etc apart from animal husbandry.
- Cropping pattern
slash and burn cultivation (Podu) of small millets, edible fruits, nuts etc.
- Availability of natural resources
Rich in minerals like Coal, Copper, Graphite, Quartz, Lime Stone, Marble, Chromite, Barytes.
- Raw materials
Coal, Copper, Graphite, Quartz, Lime Stone, Marble, Chromite, Barytes.

(b) Demographic details and Socio-economic profile (type of target beneficiaries, total size of target group(s), % of PVTG of total population in project area, details of social conditions, current occupations of the target beneficiaries, present average annual income, availability of basic amenities and facilities etc.)

Konda Reddy Tribe live in the deep valleys and forests of lower Godavari basin adjoining the areas of Andhra Pradesh also. In Telangana they are prominently found in eastern part of Bhadrachalam district. Their population is around 1,016 as per 2011 census.

They live on the hilltops. They build houses with bamboos and thatch. The house has large space and utilized it for keeping the animals and kitchen garden. The tribal people are connected with strong bondage.

Livelihood is depended on the forest products like honey, gathering the medicinal plants, leaves, roots and so. They follow a very ancient pattern of life. They don't interested in plough agriculture, mining, factories and Urbanization work. The concept of their tradition causes to evolute the greenery and spread the plants around the surroundings. They don't destroy the forests and causing the eco-climate. Even the forests, they clear for agriculture are taken care of so that they regenerate after a few years. Their knowledge is processing fruits and maintenance the forest environment is admirable from all the societies at present.

The Konda Reddis are known for their eco-friendly practices such as use of household articles made of bamboo, bottle gourd, and seed.

They cultivate the crops in a distinct way called "Podu". It is an ancient practice in hilly regions. At first, they cultivate the "Podu" land for 3 or 4 years. Later, they left the land for cultivation and choose some land in another place and cultivate there. They prepare the calendar and marked the seasons for collecting various edible fruits, nuts, green leaves and small animals for hunting. When the season arrived the Konda Reddi tribe women and children collect the edible forest products for subsistence. Especially, they collect honey and bamboo shoots. In the summer season, they collect the juice of "Caryota Palm" for drinking.

They sell the "Podu" cultivated products, honey and other gathered nuts, roots and other materials. They purchase cloth and provisions and required things. Forest is the place of a large number of bamboo plants. So Konda Reddi Tribe people collect the bamboo and make baskets, chicken coops and sell in the market. The Tribal people worship Gods of nature and every family has their family God or Goddess. The

household put up a long pole in front of the house and tie some neem branches to it and worship as Muthyalamma. They celebrate the festivals during the changes of the seasons. Especially, "Mamidi Panduga" is one of the most important festivals. The other important festivals are "Gongura Panduga" which fell in September, "Pachha Panduga". During these festival celebrations, all gather together and share their happy movements with each other.

(c) Indigenous Knowledge (IK)/Traditional Knowledge (TK), Skill and Practices and the problems identified (Community Knowledge and availability of IK skills/TK skills, Details of existing special skills/trades, including art, craft etc. of the target population)

Konda Reddy Tribe people collect the bamboo and make baskets, chicken coops and sell in the market. They cultivate the crops in a distinct way called "Podu". It is an ancient practice in hilly regions. At first, they cultivate the "Podu" land for 3 or 4 years. Later, they left the land for cultivation and choose some land in another place and cultivate there. They prepare the calendar and marked the seasons for collecting various edible fruits, nuts, green leaves and small animals for hunting. When the season arrived the Konda Reddy tribe women and children collect the edible forest products for subsistence. Especially, they collect honey and bamboo shoots. In the summer season, they collect the juice of "Caryota Palm" for drinking.

(d) details on health and nutrition, education, quality of life (Cooking Fuel, Sanitation, Drinking Water, Electricity, Housing etc)

Literacy rate is very low. Malnutrition, as expected, is the most common health problem. In addition, communicable diseases such as tuberculosis, malaria, and STDs are major public health problems. Some at high risk for sickle cell anemia.

Generally, diets are seen to be deficient in protein, iron, iodine, and vitamins.

Alcoholism and other psychic and socio-cultural ramifications of alcoholism remain as the biggest problem.

Both men and women smoke a homemade cheroot (chutta) which results a high incidence of mouth and throat cancer.

Poor economic conditions, lack of potable water, insanitary conditions, ignorance, and lack of health education, superstitious beliefs, cultural practices, and poor access to healthcare facilities are the main causes for the poor health.

Facing problems of land alienation, displacement, indebtedness and bonded labor. Many of the problems are rooted from their increasing attachment with dominant culture and lack of basic competence in education.

A major issue noticed among some families is that majority of their houses are un electrified. The PVTG is also facing the issue of lack of proper latrine facilities.

4. Statement of the problem and Technology Gaps:

(a) State the main problem of the targeted PVTG you seek to address (may refer to the call document for identified priority areas)

- Literacy rate very low
- High Maternal Mortality Rate, High Infant Mortality Rate
- High prevalence of consanguineous marriage and related genetic disorder
- Malnutrition rate high
- Poor quality of drinking water
- Not many sources of income and traditional sources depleting
- Majority of houses are un electrified and lack proper latrine facilities
- Subsist on shifting cultivation and foraging-food-gathering, hunting and minor forest produce collection
- Not having proper census of PVTG population highlighting whether the whole community should be treated as PVTG or part thereof living in a particular contiguous geographical area
- PVTGs households are not aware of government schemes though their names figure in the beneficiaries list
- Poor transport facilities to bring PVTG children to the nearest schools to enroll them and help them inclined towards schooling to enhance educational achievement among PVTGs
- Lack of local need based vocational training for PVTGs

(b) What are existing STI gaps and how did you come to know of this?

Came to know about present STI gaps through primary and secondary research.

(c) Why is it important to solve the identified gaps?

Though India is celebrating 75 years of independence, still some tribal groups like Konda Reddy are far behind other communities includes scheduled tribes, have declining or stagnant population, high malnutrition, limited source of income, low income, low level of literacy, pre agricultural level of technology and are economically backward. So it's important to uplift them.

5. Review of Status/Earlier Works and/or Initiatives (Are you aware of any other initiative related to proposed activities to solve this problem? What were the outcomes?)

The development interventional out-put in enhancing the quality of life among PVTGs is not encouraging throughout the nation. It needs reexamination from the level of policy to the level of implementation to identify where the shoe pinched. However, in Gujarat the input and out relationship has transformed the life of the PVTGs due to the fact that there is accountability for involved NGOs and corporate houses that made MoU with the state government.

The vocational skill training imparted to the PVTGs youths in Vocational Training Institute has good response and is being managed by Atul industries in collaboration with Department of Tribal Development, Government of Gujarat.

Compared to other states, the housing intervention is more successful in Telangana. This could happen due to the fund allocated to Telangana government for infrastructure development in PVTGs inhabiting areas under 13th Finance Commission.

Water supply has been done to PVTGs habitats by different states by adopting different means such as Gravitational water flow approach in Odisha. However, these means are not ensuring the safe drinking water. The adverse effect of such is genesis of inter-community disharmony inhabiting the area.

The development intervention with regards to education through establishment of Educational Complex, EMRS, Tribal Hostels for boys and girls and supply of adequate stipends, food, dress and reading material and also medical facility has made a big leap in educational achievement among PVTGs throughout the nation. Geographical location and accessibility to the institution still a major concern for the educational development among PVTGs.

The alienation from the natural resources due commercialization of forest, growth of non-forest based industries, inroads of capital into PVTGs habitats, poor implementation MGNREGA, in-migration of traders into the forest and non-availability engagement/employment to the PVTGs reduced them from resource owner to cheap labor supplying groups.

Inter-state migration of PVTGs in search of livelihood is marked many states. Due to the process of pauperization and the process of acculturation the conservation cum-development of PVTGs is questionable. Displace does not mean physical

displacement only. It could be displacement from recourses leading to displacement of knowledge and skill of the PVTGs. Traditional kin based social support system of the PVTGs can never be compensated in case they are displaced from their habitat. The degradation of natural resources has not only reduced the economic base of the PVTGs, it also affected the bio diversities of the micro-environment. The adverse impact like change in eco-climatic situation, declined productivity, loss of natural resources, shortage of land, forest and water, restricted local employment opportunity forced them to migrate in search of living. It also increased the rate of infant mortality and morbidity. In absence of proper measures to reduce their vulnerability in health frontiers a revised policy becomes imperative.

6. Suggested STI solutions:

(Describe how the proposal will lead to a novel and effective solution, based on a scientifically and technically sound concept and keeping in view the user needs and local availability of resources)

(a) Outline your idea or solution you plan to develop:

- YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
- Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
- Design intervention for handicrafts
- Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
- Solar powered 4 seater e-cycle
- Low cost tobacco free electronic cigarette
- Low cost drone for aerial transportation of medicine
- Thermosolar AI enabled flow bee hive for apiculture
- Pre-fabricated steel house with bamboo with solar lantern and bio toilet

(b) Nature of proposed interventions:

Technology development (new technology, new product/process)	✓
Adaptive R&D (Location Specific Research & Technology Development including Technology modification/modulation/ optimization, up/down	✓

scaling of existing systems, technology adaption/adoption etc)	
Technology transfer (field trials, demonstrations & transfer of technology)	✓
Technology dissemination (Replication of successful models, deployment of new and available technologies for identified problem)	✓
Others (Please specify)	<ul style="list-style-type: none"> • Conducting of social impact assessment (SIA) of interventions, different schemes and developmental projects of government • Conducting of capacity building training programmes to promote government schemes and training programmes to help to get job in local industries () • Dissemination of interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder • Conducting of census of population to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy Tribe • Documentation of literature, indigenous knowledge of Konda Reddy Tribe

(Please tick all the relevant categories)

(c) Source of proposed STI solutions/interventions:

<i>Source</i>	<i>Name of agency/institution/individual</i>
Generated in-house by staff	✓
Generated in-house by employing outside experts	
Borrowed from an outside institution/expert	
Modification of technology/know-how being used by the beneficiaries	
Any other (please specify):	

(d) Mention the importance of the project in context of earlier works and how the instant project will provide better and sustainable STI solutions to the identified problem and user needs

Though India is celebrating 75 years of independence, still some tribal groups like Konda Reddy are far behind other communities includes scheduled tribes, have declining or stagnant population, high malnutrition, limited source of income, low income, low level of literacy, pre agricultural level of technology and are economically backward. So it's important to uplift them.

7. Objectives (well defined, restrict to 3-4 objectives and should correspond to the identified problems)

- Establishment of YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
- Documentation of literature, indigenous knowledge of Konda Reddy Tribe
- Establishment of Tribal Hub, development and dissemination of portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
- Design intervention for handicrafts
- Development and dissemination of Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
- Development and dissemination of Solar powered 4 seater e-cycle

- Development and dissemination of Low cost tobacco free electronic cigarette
- Development and dissemination of Low cost drone for aerial transportation of medicine
- Development and dissemination of Thermosolar AI enabled flow bee hive for apiculture
- Development and dissemination of Pre-fabricated steel house with bamboo with solar lantern and bio toilet
- Conducting of social impact assessment (SIA) of interventions, different schemes and developmental projects of government
- Conducting of capacity building training programmes to promote government schemes and training programmes to help to get job in local industries ()
- Dissemination of interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
- Conducting of census of population to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy Tribe

8. Methodology and Work Plan:

(a) State the methodology in a sequence of clearly defined steps leading to achievement of the stated objectives (Describe how the project will leverage livelihood/economic opportunities and solve the challenges in a sustainable way. Also explain how, and in what way, the project will contribute to the advancement of knowledge and STI Capacity building of the beneficiaries. Support with defined steps/relevant process details, e.g. flow chart, model, survey procedures, protocols, engineering design/schematic/layout plan etc.)

Collaborate with NGOs working with Konda Reddy tribe to reach to them and disseminate different interventions. Through capacity building programmes identify volunteer evangelists from Konda Reddy tribe who help to communicate with other people from those tribes and disseminate developed interventions.

Then conduct census of Konda Reddy tribes to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy tribes.

Identify symbiotic relationship between Konda Reddy tribes, with other tribes and non-tribes and relationship with forest.

Establish YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube.

Document literature, indigenous knowledge of Konda Reddy Tribe.

Establish Tribal Hub, develop and disseminate portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe.

Through design intervention help to increase product basket for bamboo handicrafts.

Develop minimum viable products of below products, fabricate, after designing:

- Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
- Solar powered 4 seater e-cycle
- Low cost tobacco free electronic cigarette
- Low cost drone for aerial transportation of medicine
- Thermosolar AI enabled flow bee hive for apiculture
- Pre-fabricated steel house with bamboo with solar lantern and bio toilet

Then demonstrate those among Konda Reddy tribes, install and take feedback to iterate to produce optimum solution to roll out.

Also interact with people of Konda Reddy tribes to:

- Conduct social impact assessment (SIA) of interventions, different schemes and developmental projects of government
- Conduct capacity building training programmes to promote government schemes and training programmes to help to get job in local industries ()
- Disseminate interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
- Conduct census of population to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy Tribe

(b) Phase wise Work plan of action with time line and deliverables in tabular form

Sl.No	Component/Work Elements	Expected Start (Month/Year)	Expected Completion (Month/Year)	Deliverables
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1	Literature Survey, prepare plan for the project with milestones	M1Y1	M1Y1	Plan for the project with milestones
2	Hire manpower and set up lab for the project	M1Y1	M2Y1	Manpower and lab for the project
3	Capacity building programmes for people of Konda Reddy Tribe	M1Y1	M2Y1	Identified volunteers
4	Conducting of census of population to bifurcate whole community should be treated as Particularly Vulnerable Tribal Group (PVTG) or part thereof living in a particular contiguous geographical area should be treated as PVTG among Konda Reddy Tribe	M1Y1	M1Y3	Bifurcate tribes based on need
5	Establishment of YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube	M1Y1	M6Y1	YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
6	Documentation of literature, indigenous knowledge of Konda Reddy Tribe	M1Y1	M1Y3	Repository of literature, indigenous knowledge of Konda Reddy Tribe
7	Establishment of Tribal Hub, development and dissemination of portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe	M2Y1	M12Y1	Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
8	Design intervention for handicrafts	M2Y1	M1Y3	Design intervention for handicrafts to increase product basket made of bamboo etc
9	Development and dissemination of Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet	M2Y1	M12Y1	Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
10	Development and dissemination of Solar powered 4 seater e-cycle	M2Y1	M12Y1	Solar powered 4 seater e-cycle
11	Development and dissemination of Low cost tobacco free electronic cigarette	M2Y1	M2Y2	Low cost tobacco free electronic cigarette
12	Development and dissemination of Low cost drone for aerial transportation of medicine	M2Y1	M2Y2	Low cost drone for aerial transportation of medicine
13	Development and dissemination of Thermosolar AI enabled flow bee hive for apiculture	M2Y1	M2Y2	Thermosolar AI enabled flow bee hive for apiculture
14	Development and dissemination of Pre-fabricated steel house with bamboo with solar lantern and bio toilet	M2Y1	M2Y2	Pre-fabricated steel house with bamboo with solar lantern and bio toilet

15	Dissemination of interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder	M2Y1	M2Y2	Interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
17	Rollout of developed solutions and take feedback to iterate	M8Y1	M11Y3	Feedback and optimum solution
18	Conducting of social impact assessment (SIA) of interventions, different schemes and developmental projects of government	M1Y1	M12Y3	Social impact assessment (SIA) of interventions, different schemes and developmental projects of government
19	Conducting of capacity building training programmes to promote government schemes and training programmes to help to get job in local industries	M1Y1	M12Y3	Capacity building training programmes to promote government schemes and training programmes to help to get job in local industries
20	Documentation and report preparation for submission	M12Y3	M12Y3	Final report for submission

9. Details/Mechanism for the involvement of PVTGs in the project (Please indicate how mobilization & participation of beneficiaries in the project work will be ensured) Through capacity building programmes identify volunteer evangelists from Konda Reddy tribes who help to communicate with other people from those tribes and disseminate developed interventions.

10. Science & Technology component/Innovativeness/Novelty of the project.

- Establishment of YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
- Documentation of literature, indigenous knowledge of Konda Reddy Tribe
- Establishment of Tribal Hub, development and dissemination of portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
- Design intervention for handicrafts
- Development and dissemination of Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
- Development and dissemination of Solar powered 4 seater e-cycle
- Development and dissemination of Low cost tobacco free electronic cigarette
- Development and dissemination of Low cost drone for aerial transportation of medicine

- Development and dissemination of Thermosolar AI enabled flow bee hive for apiculture
- Development and dissemination of Pre-fabricated steel house with bamboo with solar lantern and bio toilet
- Dissemination of interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder

11. Deliverables and Benefits

(a) Expected Deliverables of the Project (5-6 clear cut deliverables)

- Bifurcation of tribes based on need
- YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube
- Repository of literature, indigenous knowledge of Konda Reddy Tribe
- Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe
- Design intervention for handicrafts to increase product basket made of bamboo etc
- Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet
- Solar powered 4 seater e-cycle
- Low cost tobacco free electronic cigarette
- Low cost drone for aerial transportation of medicine
- Thermosolar AI enabled flow bee hive for apiculture
- Pre-fabricated steel house with bamboo with solar lantern and bio toilet
- Interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
- Social impact assessment (SIA) of interventions, different schemes and developmental projects of government
- Capacity building training programmes to promote government schemes and training programmes to help to get job in local industries

(b) Expected benefits to the target groups/population (5-6 clear cut benefits)

- YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through

YouTube help to conserve their culture, indigenous knowledge and have steady source of income

- Documentation of literature, indigenous knowledge of Konda Reddy Tribe help to conserve their knowhow and monetize that
- Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe help to have new sources of income
- Design intervention for handicrafts help to increase product basket and income
- Solar telehealth terminal through high-throughput satellite (HTS) broadband internet help to improve quality of life, lower mortality and morbidity rate
- Solar e-learning terminal through high-throughput satellite (HTS) broadband internet help to increase literacy rate, skills set and income
- Solar powered 4 seater e-cycle help to improve reach and integration of mainstream of society, increase literacy rate and income
- Low cost tobacco free electronic cigarette help to decrease mouth and throat cancer
- Low cost drone for aerial transportation of medicine help to increase reach of modern medicine and decrease general mortality, maternal mortality and infant mortality rate
- Thermosolar AI enabled flow bee hive for apiculture help to increase income
- Pre-fabricated steel house with bamboo with solar lantern and bio toilet help to improve quality of life, increase literacy rate, decrease morbidity and mortality rate
- Bifurcating tribes based on need increase effectiveness of schemes of government and impact of developmental projects
- Awareness on government schemes and training programmes help to increase income and quality of life
- Interventions help to increase the sex ratio and population strength and decrease consanguineous marriage and related genetic disorder

12. Give a brief description the social and economic impact the project will create in the livelihood system of target beneficiaries

- YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through

YouTube help to conserve their culture, indigenous knowledge and have steady source of income

- Documentation of literature, indigenous knowledge of Konda Reddy Tribe help to conserve their knowhow and monetize that
- Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe help to have new sources of income
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- Bifurcating tribes based on need increase effectiveness of schemes of government and impact of developmental projects
- Awareness on government schemes and training programmes help to increase income and quality of life
- Interventions help to increase the sex ratio and population strength and decrease consanguineous marriage and related genetic disorder

13. Self-sustainability of the project

(a) Exit Plan after SEED Divisions project support is over

- Continue development and dissemination of interventions to improve quality of life of Konda Reddy tribes in Telangana, work as bridge between policy makers, government agencies and tribes.

- Grants in aid from other sources, royalty income from developed products and technologies help to have sources of fund to continue future activities

(b) Possibility of replication of project in similar areas (after the proposed technological solution is proven, how it will be scaled up or taken forward - whether by involving state government for large scale technology dissemination or via market or any other means - any entrepreneur or business person can be involved in any manner?):

Same model can be replicated for other Particularly Vulnerable Tribal Groups (PVTGs) in Telangana and other parts of India.

14. Monitoring and Evaluation Framework (Please give tentative indicators for output-outcome based monitoring to assess the success of the project/ proposed interventions)

Note: (a) The tentative indicators developed for output-outcome based monitoring by DST is enclosed in Annexure - VII.

(b) You may also give any other indicators deemed fit by you the success of the project/ proposed interventions.

Sl. No.	Indicators	Expected Output
1	New technologies/ techniques/ tools/processes to be developed	10
2	Technologies/ techniques/ tools to be deployed (existing technologies)	5
3	Technologies to be modulated and deployed (adaptive R&D)	5
4	Technologies to be field tested (new and modulated technologies)	20
5	Technologies that can be transferred	20
6	Technologies that can be commercialized	20
7	Reports/Manuals that can be generated	20
8	Patents (applied/granted) if any [expected to be generated]	10
9	Paper published, if any Popular articles, awareness leaflets, pamphlets developed and published	20
10	Short duration user friendly video/photo gallery produced using available handy cameras for technology popularization	100
11	Beneficiaries covered under the Project (Numbers with gender wise percentages: District wise, age groups wise)	1,016
12	New SHGs/CIGs/TAG's to be formed under the Project and how many are all women SHG	10
13	Agriculture Land Covered to be for project interventions	40 ha

14	FPOs to be formed under the Project	5
15	Awareness, Training and skill development Programmes Conducted with number of male and female participants	20
16	Manpower to be trained- total with gender wise percentages	1000
17	Youth to be employed- total with gender wise percentages	1000
18	Common Facility, village community Centers/Rural science and technology translation and dissemination hub (new or upgraded)/Permanent Structures/Common Resources to be Created	5
19	HHs(households) to be involved	150
20	Access to Clean and Safe Drinking Water (give number of households and total population benefited)	150
21	Access to Clean Energy -including cooking and electricity (give number of households and total population benefited)	150
22	Access to Health care facilities/Improved Nutrition (give number of households and total population benefited)	150
23	Access to other infrastructure - toilets/low cost houses (give number of households and total population benefited)	150
24	Access to financial institutions (give number of households)	150
25	Livelihood Diversification (Farm and Non-Farm - indicate the diversified trades)	Tribal Tourism, Apiculture, Food processing, Handicraft, live performance, YouTube Channel
26	Increase in household income due to project interventions (give %)	50%
27	Number of other organizations, rural institutions, cooperative societies, Youth clubs and Progressive circles, FPOs to be motivated and mobilized for replication of project outcomes (scientific capacity building)	20
28	Increase in Agricultural (crop/livestock/poultry/fisheries) Productivity	30%
29	Increased availability of resources (natural and/or physical) and assets	30% more
30	Increase in livelihood/ employment opportunities in different areas (list the areas/field and give the number of entrepreneurs)	Tribal Tourism, Apiculture, Food processing, Handicraft, live performance, YouTube Channel
31	New Enterprises to be developed (mention the enterprises)	20
32	Drudgery reduction (brief achievements) - Name and number of technologies to be developed or upgraded, and adopted) for drudgery reduction	<ul style="list-style-type: none"> • YouTube Channel and YouTube studio for Konda Reddy tribe to record and publish performance, art, culture, handicrafts, eco-friendly practices through YouTube • Repository of literature, indigenous knowledge of Konda Reddy Tribe • Tribal Hub, portal and app integrated with tribal tourism to display products, produce, culture and performance of Konda Reddy Tribe • Design intervention for handicrafts to increase product basket made of bamboo etc

		<ul style="list-style-type: none"> • Solar telehealth and e-learning terminal through high-throughput satellite (HTS) broadband internet • Solar powered 4 seater e-cycle • Low cost tobacco free electronic cigarette • Low cost drone for aerial transportation of medicine • Thermosolar AI enabled flow bee hive for apiculture • Pre-fabricated steel house with bamboo with solar lantern and bio toilet • Interventions to increase the sex ratio and population strength and addressing consanguineous marriage and related genetic disorder
33	Improved linkages with market/ enterprises	Through facilitation
34	Adoption of newly developed technologies/products/processes/ indicated by number of adopters	1000
35	No. of organizations, entrepreneurs motivated and mobilized for replication of project achievements	20
36	Linkages established with Govt schemes and any subsidy availed from Govt agencies	20
37	Community's empowerment (technology user group formed; saving cum credit group; health improvement etc.)	20
38	Database/Documentation of livelihood system, indigenous resources and knowledge capacity and aspiration	3

15. Budget Summary (in Rs): 16,609,060/-

Recurring Cost (in Rs): 14,081,120/-

Non-Recurring cost (in Rs): 4,927,940/-

**The budget under construction cost is only for low cost structures like Common Facility Centre and not for construction of new buildings or structures. Approval of such grant is at sole discretion of DST and as per extant GFR norms.*

PART III: BUDGET

Sl. No	Item	Budget			
		1st Year	2nd Year	3rd Year	Total
A	RECURRING				

1	Manpower	1,607,040	1,607,040	1,607,040	4,821,120
2	Consumables	1,500,000	500,000	500,000	2,500,000
3	Travel	460,000	460,000	460,000	1,380,000
4	Training Programs	200,000	200,000	200,000	600,000
5	Other Costs	400,000	500,000	400,000	1,300,000
6	Review Meeting by DST	60,000	60,000	60,000	180,000
7	Contingencies	200,000	200,000	200,000	600,000
8	Institutional Overheads	100,000	100,000	100,000	300,000
B	NON-RECURRING				
1	Permanent Equipment	2,527,940	-	-	2,527,940
2	Fabrication of Equipment	200,000	200,000	200,000	600,000
3	Construction Costs	600,000	600,000	600,000	1,800,000
TOTAL		7,854,980	4,427,040	4,327,040	16,609,060

BUDGET ESTIMATES - SUMMARY*

(The budget under different heads will be sanctioned as per the extant norms of DST)

Sl. No	Item	Budget			
		1st Year	2nd Year	3rd Year	Total
A	RECURRING				
1	Manpower	1,607,040	1,607,040	1,607,040	4,821,120
2	Consumables	1,500,000	500,000	500,000	2,500,000
3	Travel	460,000	460,000	460,000	1,380,000
4	Training Programs	200,000	200,000	200,000	600,000
5	Other Costs	400,000	500,000	400,000	1,300,000
6	Review Meeting by DST	60,000	60,000	60,000	180,000
7	Contingencies	200,000	200,000	200,000	600,000
8	Institutional Overheads	100,000	100,000	100,000	300,000
B	NON-RECURRING				
1	Permanent Equipment	2,527,940	-	-	2,527,940
2	Fabrication of Equipment	200,000	200,000	200,000	600,000
3	Construction Costs	600,000	600,000	600,000	1,800,000
TOTAL		7,854,980	4,427,040	4,327,040	16,609,060

*In case of collaboration with different institutions, separate budget requirements should be furnished along with formal agreement from the collaborating institutions/scientists. Detailed justification needs to be provided for all the budget heads as per the break up given below.

A. RECURRING

1. BUDGET FOR MANPOWER

Sl. No.	Designation	Budget (Rs)			
		1st Year	2nd Year	3rd Year	Total
1	JRF-4	1,607,040	1,607,040	1,607,040	4,821,120
TOTAL		1,607,040	1,607,040	1,607,040	4,821,120

(Staff recruited for a project should be paid as per the norms and guidelines of the DST. The justification should contain the work allocation/functions of each project staff. Please refer to different OMs regarding salary structure of various categories of project staff available on DST Website)

2. BUDGET FOR CONSUMABLES

Sl. No	Consumables	Budget (Rs)			
		1st Year	2nd Year	3rd Year	Total
1	For development of prototypes, for project works, capacity building training	1,500,000	500,000	500,000	2,500,000
TOTAL		1,500,000	500,000	500,000	2,500,000

(Detailed break up of consumables should be given)

3. BUDGET FOR TRAVEL

Sl. No	Purpose	Budget			
		1st Year	2nd Year	3rd Year	Total
1	Project Logistics	100,000	100,000	100,000	300,000
2	Field Activities	300,000	300,000	300,000	900,000
3	Onsite Review Meetings by Experts	60,000	60,000	60,000	180,000
TOTAL		460,000	460,000	460,000	1,380,000

(Tentative budget to be proposed for two meetings a year – should cover the travel cost, accommodation and local field visits of 4-6 experts)

4. BUDGET FOR TRAININGS

Sl. No	Description of Trainings/Awareness	Budget			
		1st Year	2nd Year	3rd Year	Total
1	Capacity building programmes	200,000	200,000	200,000	600,000
TOTAL		200,000	200,000	200,000	600,000

5. BUDGET FOR OTHER COSTS

Sl. No	Item	Budget			
		1st Year	2nd Year	3rd Year	Total

1	IPR*	200,000	300,000	200,000	700,000
2	Fee for usage of equipment and software	100,000	100,000	100,000	300,000
3	Maintenance cost	100,000	100,000	100,000	300,000
TOTAL		400,000	500,000	400,000	1,300,000

*For patent filing, industrial design registration, copyrights registration
(This head will cover costs for technology testing, field trials, deployment, patents etc)

6. BUDGET FOR CONTINGENCIES

Sl. No	Item	Budget			
		1st Year	2nd Year	3rd Year	Total
1	Misc Contingency	200,000	200,000	200,000	600,000
TOTAL		200,000	200,000	200,000	600,000

(Should be for unforeseen costs)

7. BUDGET FOR OVER HEADS

Sl. No	Item	Budget			
		1st Year	2nd Year	3rd Year	Total
1	Utility and other overheads	100,000	100,000	100,000	300,000
TOTAL		100,000	100,000	100,000	300,000

B. NON-RECURRING

BUDGET FOR PERMANENT EQUIPMENT/STRUCTURES

Sl. No.	Item	Budget			
		1st Year	2nd Year	3rd Year	Total
1	Equipment	2,527,940			2,527,940
2	Fabrication Costs	200,000	200,000	200,000	600,000
3	*Construction Costs	600,000	600,000	600,000	1,800,000
TOTAL		3,327,940	800,000	800,000	4,927,940

* Furnishing cost for Tribal Hub and YouTube studios

Sr.No.	Name of Equipment/Software	Total Price (in INR)	Maker Name	Model Number
	Software			
1	Catia CAD Software	900,000	Dassault Systèmes	Catia
	Equipment/Hardware			
2	DSLR Camera	64,894	Canon	M50 Mark II
3	GoPro HERO10 Action Camera with Free Swivel Clip, Digital, Battery & Shorty Tripod (Waterproof, Front & Rear Dual Screen, 5.3K60 Ultra HD Video, 23MP Photos), (CHDRB-101-CN+BAT+Tripod) Black	175,200	GoPro	HERO10
4	3D Printer 300MM X 250MM 200MM 240V	526,965	Flashforge	CREATOR 3
5	Welding Machine-1 Nos.	15,568	iBELL	T250-106
6	Power Tool Box-1 Nos.	5,527	BOSCH	GSB 550
7	Soldering Desoldering Station-1 Nos.	15,000	Vineet Electric Company	
8	6000 Counts Digital Multimeter-1 Nos.	2,499	Meco	

9	Anti Drop Screwdriver Set with Organizer Case-1 Nos.	3,173	Scout	
10	100 Pieces Computer Technician Tool Kit-1 Nos.	12,835	Fellowes	
11	Digital Solar PV Multimeter	17,380	Metravi	PRO Solar-1
12	Solar Module Analyzer Photovoltaic I-V Curve Tester	177,000	MECO	
13	Solar Power Meter	29,999	Amprobe	SOLAR-100
14	Desktop Computer-2 Nos.	277,980	HP	Pavilion AIO 12th Gen Intel Core i7-80.01cm(31.5 inch) QHD,IPS,3 Sided Micro-Edge Display, 16GB RAM/1TB SSD/WiFi 6/B&O Audio/Win 11/5 MP Camera/MS Office 2021, 32-b0590in, Black
15	Laptop-8 Nos	303,920	HP	14S 11Th Gen Intel Core I3- 8Gb Ram/256Gb Ssd 14 Inches Fhd, Micro-Edge, Anti-Glare, IPS Display/Uhd Graphics/ Windows 11 Home/ Ms Office/ Alexa Built-in/ 1.46Kg/ Natural Silver - 14S-Dy2506Tu
	Total	2,527,940		

Detailed justification for each and every item of equipment should be given

Bill of materials/estimate for fabrication and construction cost should be provided

*The budget under construction cost is only for low cost structures like Common Facility Centre and/or renovation or refurbishing of existing space and not for construction of new buildings or structures. Approval of such grant is at sole discretion of DST and as per extant GFR norms.

PART IV: DETAILS OF THE IMPLEMENTING INSTITUTE

1. Description of the implementing agency (ies)

(In case of Voluntary Organizations/NGOs and Private Institutes please enclose copies of Registration Certificate/Trust Deed, Memorandum of Association including By-laws and Mandate, Audited statement of accounts for the last three years, Annual Report including activity profile for last three years.)

1. Type of organization:

Type	Implementing Org.	Collaborator
Academic Institution		
Research Organization		
S&T Council		
Voluntary Organization		
Other (please specify)		

2. Expertise available with the proposed investigating group/institution for implementing the project (describe briefly in not more than one page)

3. Infrastructure available land/building (including equipments).

4. Whether the organization is implementing EAT Module under PFMS?

ANNEXURE – II

ENDORSEMENT FROM HEAD OF THE INSTITUTE

(on letter head)

It is certified that the project proposal titled “title of the project”

1. Has not been submitted to any other agency/agencies for financial support
2. The scale of pay, allowance, etc. proposed are those admissible to persons of corresponding status employed in the Institute/University/NGO/Voluntary Organization, and are in accordance with the DST guidelines
3. It is agreed that any research outcome or intellectual property right(s) on the invention(s) arising out of the project shall be taken in accordance with the instructions issued with the approval of the Ministry of Finance, Department of Expenditure
4. The institute welcomes participation of Dr/Shri/Smt/Km..... as the Principal Investigator and Dr/Shri/Smt/Km..... as the Co-Investigator for the project and that in the unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume responsibility of the fruitful completion of the project (with due intimation to DST).
5. In case the Principal Investigator (PI) leaves the Institution, the Co-Investigator (Co-I) will assume the charge of the Investigator for Competing the Project with prior approval of DST.
6. The proposed equipment is not available with the Host Institution.

Signature of Executive Authority
of Institute/ University with Seal with date

1. Signature of Principal-Investigator with place and date

2. Signature of Co-Investigator place and date

ANNEXURE-III

CERTIFICATE FROM THE INVESTIGATORS

It is certified that

1. We agree to abide by the terms and conditions of the DST grant.
2. We did not submit this or a similar project proposal elsewhere for financial support.
3. We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. We shall not require financial support under this project, for procurement of these items.
4. We undertake that spare time on permanent equipment will be made available to other users.
5. The proposed equipment is not available with the Host Institution
6. In case the Principal Investigator (PI) leaves the Institution, the Co-Investigator (Co-I) will assume the charge of the Investigator for Competing the Project with prior approval of DST.
7. We understand that shifting of the sanctioned project from one institution to other institution due to change of the institution by the principal investigator/co-investigators is not allowed and is at sole discretion of DST, subject to submission of No Objection Certificate from the Host Institution by the PI.

We have enclosed the following materials.

Duly filled application form (complete with all Annexure) – online	
valid Registration Certificate/Trust Deed, MOA with Bye Laws, Annual reports & audited accounts of the organization for previous 3 years (only for NGOs)	
Letter of Support and tie up with S&T institutions – Mandatory for NGO'S	
Endorsement from Head of Institute and Certificate from Investigators (original)	

1. Signature of Principal-Investigator with place and
2. Signature of Co-Investigator place and date

ANNEXURE-IV

BIODATA OF PRINCIPAL INVESTIGATOR

A. Name:

B. Date of Birth

C. Institution

D. Whether belongs to SC/ST

E. Academic and professional career:

(From Graduation to highest qualification level indicating subject and area of specialization – Enclose copy of certificate of highest qualification):

Professional career:

F. Award/Prize/Certificate etc. won by the investigator:

G. Publication (Numbers only)

Details of Papers, Books, General Articles, Patents if any

H. List of Completed/Ongoing and Submitted projects

Sl. No.	Name of the project and Reference No	Funding Agency/Division	Cost & Duration	Status

ANNEXURE-V

BIODATA OF CO INVESTIGATOR (S) – To be submitted for all co-investigators

A. Name:

B. Date of Birth

C. Institution

D. Whether belongs to SC/ST

E. Academic and professional career:

(From Graduation to highest qualification level indicating subject and area of specialization – Enclose copy of certificate of highest qualification):

Professional career:

F. Award/Prize/Certificate etc. won by the investigator:

G. Publication (Numbers only)

Details of Papers, Books, General Articles, Patents if any

H. List of Completed/Ongoing and Submitted projects

Sl. No.	Name of the project and Reference No	Funding Agency/Division	Cost & Duration	Status

ANNEXURE – VI

POLICY ON CONFLICT OF INTEREST

(FOR REVIEWER & COMMITTEE MEMBER or APPLICANT or DST OFFICER ASSOCIATED/
DEALING WITH THE SCHEME/ PROGRAM OF DST)

Issues of Conflicts of Interest and ethics in scientific research and research management have assumed greater prominence, given the larger share of Government funding in the country's R & D scenario. The following policy pertaining to general aspects of Conflicts of Interest and code of ethics, are objective measures that is intended to protect the integrity of the decision making processes and minimize biasness. The policy aims to sustain transparency, increase accountability in funding mechanisms and provide assurance to the general public that processes followed in award of grants are fair and non-discriminatory. The Policy aims to avoid all forms of bias by following a system that is fair, transparent and free from all influence/ unprejudiced dealings, prior to, during and subsequent to the currency of the programme to be entered into with a view to enable public to abstain from bribing or any corrupt practice in order to secure the award by providing assurance to them that their competitors will also refrain from bribing and other corrupt practice and the decision makers will commit to prevent corruption, in any form, by their officials by following transparent procedures. This will also ensure a global acceptance of the decision making process adopted by DST.

Definition of Conflict of Interest: Conflict of Interest means "any interest which could significantly prejudice an individual's objectivity in the decision making process, thereby creating an unfair competitive advantage for the individual or to the organization which he/she represents". The Conflict of Interest also encompasses situations where an individual, in contravention to the accepted norms and ethics, could exploit his/her obligatory duties for personal benefits.

Coverage of the Policy: The provisions of the policy shall be followed by persons applying for and receiving funding from DST, Reviewers of the proposal and Members of Expert Committees and Programme Advisory Committees. The provisions of the policy will also be applicable on all individuals including Officers of DST connected

directly or indirectly or through intermediaries and Committees involved in evaluation of proposals and subsequent decision making process.

This policy aims to minimize aspects that may constitute actual Conflict of Interests, apparent Conflict of Interests and potential Conflict of Interests in the funding mechanisms that are presently being operated by DST. The policy also aims to cover, although not limited to, Conflict of interests that are Financial (gains from the outcomes of the proposal or award), Personal (association of relative / Family members) and Institutional (Colleagues, Collaborators, Employer, persons associated in a professional career of an individual such as Ph.D. supervisor etc.)

2. Specifications as to what constitutes Conflict of Interest: Any of the following specifications (non-exhaustive list) imply Conflict of Interest if,

- (a) Due to any reason by which the Reviewer/Committee Member cannot deliver fair and objective assessment of the proposal.
- (b) The applicant is a directly relative# or family member (including but not limited to spouse, child, sibling, parent) or personal friend of the individual involved in the decision making process or alternatively, if any relative of an Officer directly involved in any decision making process / has influenced interest/ stake in the applicant's form etc.
- (c) The applicant for the grant/award is an employee or employer of an individual involved in the process as a Reviewer or Committee Member; or if the applicant to the grant/award has had an employer-employee relationship in the past three years with that individual.
- (d) The applicant to the grant/award belongs to the same Department as that of the Reviewer/Committee Member.
- (e) The Reviewer/Committee Member is a Head of an Organization from where the applicant is employed.
- (f) The Reviewer /Committee Member is or was, associated in the professional career of the applicant (such as Ph.D. supervisor, Mentor, present Collaborator etc.)
- (g) The Reviewer/Committee Member is involved in the preparation of the research proposal submitted by the applicant.

- (h) The applicant has joint research publications with the Reviewer/Committee Member in the last three years.
- (i) The applicant/Reviewer/Committee Member, in contravention to the accepted norms and ethics followed in scientific research has a direct/indirect financial interest in the outcomes of the proposal.
- (j) The Reviewer/Committee Member stands to gain personally should the submitted proposal be accepted or rejected.

The Term “Relative” for this purpose would be referred in section 6 of Companies Act, 1956.

3. Regulation: The DST shall strive to avoid conflict of interest in its funding mechanisms to the maximum extent possible. Self-regulatory mode is however recommended for stake holders involved in scientific research and research management, on issues pertaining to Conflict of Interest and scientific ethics. Any disclosure pertaining to the same must be made voluntarily by the applicant/Reviewer/Committee Member.

4. Confidentiality: The Reviewers and the Members of the Committee shall safeguard the confidentiality of all discussions and decisions taken during the process and shall refrain from discussing the same with any applicant or a third party, unless the Committee recommends otherwise and records for doing so.

5. Code of Conduct

5.1 To be followed by Reviewers/Committee Members:

- (a) All reviewers shall submit a conflict of interest statement, declaring the presence or absence of any form of conflict of interest.
- (b) The reviewers shall refrain from evaluating the proposals if the conflict of interest is established or if it is apparent.
- (c) All discussions and decisions pertaining to conflict of interest shall be recorded in the minutes of the meeting.
- (d) The Chairman of the Committee shall decide on all aspects pertaining to conflict of interests.

- (e) The Chairman of the Committee shall request that all members disclose if they have any conflict of interest in the items of the agenda scheduled for discussion.
- (f) The Committee Members shall refrain from participating in the decision making process and leave the room with respect to the specific item where the conflict of interest is established or is apparent.
- (g) If the Chairman himself/herself has conflict of interest, the Committee may choose a Chairman from among the remaining members, and the decision shall be made in consultation with Member Secretary of the Committee.
- (h) It is expected that a Committee member including the Chair-person will not seek funding from a Committee in which he/she is a member. If any member applies for grant, such proposals will be evaluated separately outside the Committee in which he/she is a member.

5.2 To be followed by the Applicant to the Grant/Award:

- (a) The applicant must refrain from suggesting referees with potential Conflict of Interest that may arise due to the factors mentioned in the specifications described above in Point No. 2.
- (b) The applicant may mention the names of individuals to whom the submitted proposal should not be sent for refereeing, clearly indicating the reasons for the same.

5.3 To be followed by the Officers dealing with Programs in DST:

While it is mandatory for the program officers to maintain confidentiality as detailed in point no. 6 above, they should declare, in advance, if they are dealing with grant applications of a relative or family member (including but not limited to spouse, child, sibling, parent) or thesis/ post-doctoral mentor or stands to benefit financially if the applicant proposal is funded. In such cases, DST will allot the grant applications to the other program officer.

6. Sanction for violation

6.1 For a) Reviewers / Committee Members and b) Applicant: Any breach of the code of conduct will invite action as decided by the Committee.

6.2 For Officers dealing with Program in DST: Any breach of the code of conduct will invite action under present provision of CCS (conduct Rules), 1964.

7. Final Appellate authority: Secretary, DST shall be the appellate authority in issues pertaining to conflict of interest and issues concerning the decision making process. The decision of Secretary, DST in these issues shall be final and binding.

8. Declaration

I have read the above “Policy on Conflict of Interest” of the DST applicable to the Reviewer/ Committee Member/ Applicant/ DST Scheme or Program Officer # and agree to abide by provisions thereof.

VI hereby declare that I have no conflict of interest of any form pertaining to the proposed grant*

~~I hereby declare that I have conflict of interest of any form pertaining to the proposed grant*~~

* & # (Tick whichever is applicable)

Name of the Reviewer/ Committee Member or Applicant or DST Officer
(Strike out whichever is not applicable)

(Signature with date)

ANNEXURE-VII

TENTATIVE INDICATORS FOR MONITORING THE OUTPUT AND OUTCOMES

(The indicators are only tentative, only the indicators relevant to your project may be selected, no need to respond to all the indicators)

(a) Output Indicators (expected during the project implementation period)

<i>Sl. No</i>	<i>Indicators</i>	<i>Numbers</i>
1	New technologies/ techniques/ tools/processes to be developed	
2	Technologies/ techniques/ tools to be deployed (existing technologies)	
3	Technologies to be modulated and deployed (adaptive R&D)	
4	Technologies to be field tested (new and modulated technologies)	
5	Technologies that can be transferred	
6	Technologies that can be commercialized	
7	Reports/Manuals that can be generated	
8	Patents (applied/granted) if any [expected to be generated]	
9	Paper published, if any Popular articles, awareness leaflets, pamphlets developed and published	
10	Short duration user friendly video/photo gallery produced using available handy cameras for technology popularization	
11	Beneficiaries covered under the Project (Numbers with gender wise percentages: District wise, age groups wise)	
12	New SHGs/CIGs/TAG's to be formed under the Project and how many are all women SHG	
13	Existing SHGs/CIGs/TAG's to be strengthened under the Project	
14	Agriculture Land Covered to be for project interventions	
15	FPOs to be formed under the Project	
16	Awareness, Training and skill development Programmes Conducted with number of male and female participants	
19	Manpower to be trained- total with gender wise percentages	
20	Youth to be employed- total with gender wise percentages	

21	Common Facility, village community Centers/ Rural science and technology translation and dissemination hub (new or upgraded)/Permanent Structures/Common Resources to be Created	
22	Beneficiaries directly using the facilities to be created	
23	Beneficiaries indirectly using the facilities to be created	
24	HHs(households) to be involved	

Outcome Indicators (expected at the end of project implementation period)

<i>Sl. No</i>	<i>Indicators</i>	<i>Numbers</i>
1	Access to Clean and Safe Drinking Water (give number of households and total population benefited)	
2	Access to Clean Energy – including cooking and electricity (give number of households and total population benefited)	
3	Access to Health care facilities/Improved Nutrition (give number of households and total population benefited)	
4	Access to other infrastructure – toilets/low cost houses (give number of households and total population benefited)	
5	Access to financial institutions (give number of households)	
6	Livelihood Diversification (Farm and Non-Farm - indicate the diversified trades)	
7	Increase in household income due to project interventions (give %)	
8	Number of other organizations, rural institutions, cooperative societies, Youth clubs and Progressive circles, FPOs to be motivated and mobilized for replication of project outcomes (scientific capacity building)	
9	Increase in Agricultural (crop/livestock/poultry/fisheries) Productivity	
10	Increased availability of resources (natural and/or physical) and assets	
11	Increase in livelihood/ employment opportunities in different areas (list the areas/field and give the number of entrepreneurs)	
12	New Enterprises to be developed (mention the enterprises)	

13	Drudgery reduction (brief achievements) - Name and number of technologies to be developed or upgraded, and adopted) for drudgery reduction	
14	Improved linkages with market/ enterprises	
15	Adoption of newly developed technologies/ products/processes/ indicated by number of adopters	
16	No. of organizations, entrepreneurs motivated and mobilized for replication of project achievements	
19	Linkages established with Govt schemes and any subsidy availed from Govt agencies	
20	Community's empowerment (technology user group formed; saving cum credit group; health improvement etc.)	
21	Database/Documentation of livelihood system, indigenous resources and knowledge capacity and aspiration.	