

DIRECTORATE OF SCIENCE & TECHNOLOGY
OFFICE OF THE COMMISSIONER KVI
“Gramodaya” 3, IRLA ROAD, VILE-PARLE (W)
MUMBAI-400056.

R&D Project Proposal (Year 2023-24)

I - PART-A

1.	Name of the Institution - Mahatma Gandhi Institute for Rural Industrialization (MGIRI)	
2.	Institutional Structure/Registration Details	
2a	Legal Status	A national Institute under the Ministry of MSME
2b	Date of Registration	Attach Certificate of Registration
2c	Registered Address	Maganwadi, Ramnagar, Wardha -442001 Maharashtra
2d	Office Address/Locations	Phone: 07152 – 253512, 253513 Fax: 07512 - 240328 e-mail: director.mgiri@gmail.com
2e	Affiliated to KVIC	Yes/No, NA If yes, provide Certificate No. _____ Validity of Certificate _____

3. Validity date of Registration (in case of NGO's): NA

4. Name & Designation of the head of the organization: **Dr Ashutosh A Murkute**, Director, MGIRI Wardha.

(Bio- data of the Project Co-ordinator should be enclosed) Annexure 1

5. Name, Designation & address of the Project Co-ordinator & Co-coordinator:

Project Coordinator	Project Co-coordinator
Dr. Shashi Prakash Mishra , Principal Scientific Officer Rural Craft & Engg Section, Mahatma Gandhi Institute for Rural Industrialization Maganwadi, Ramnagar, Wardha -442001 Maharashtra E-mail: spm652002@gmail.com Mobile - +918329919715	Mr. Vinod Wankhade , Senior Scientific Officer Rural Craft & Engg Section, Mahatma Gandhi Institute for Rural Industrialization Maganwadi, Ramnagar, Wardha -442001 Maharashtra E-mail: wankar.vinod@gmail.com Mobile - +919890217175

6. Background of the organization :

- (a) Past experience in R & D work in the KVI sector and micro-enterprise and entrepreneurship development need to be given separate sheets (details of work done in other areas need not be given). Since its inception, MGIRI has been dedicated for R&D work of KVI sector. **Technology development** – The following technologies are developed for different artisans’ cluster under the RC&E Division -

For pottery industries-

- Home scale energy efficient blunger - Successfully disseminated more than 1500 nos potter’s wheel to field through KVIC.
- Home scale energy efficient (solar ready) blunger - Successfully disseminated more than 500 nos potter’s wheel to field through KVIC.
- Energy efficient (solar ready) potter’s wheel – Successfully disseminated more than 5000 nos potter’s wheel to field through KVIC.
- Energy efficient AC potter’s wheel - Successfully disseminated more than 15000 nos potter’s wheel to field through KVIC.
- Low cost blunger made by “used PVC drum”
- Natural colours for terracotta products.
- Clay granulator machine
- Gas kiln for small terracotta products

For wood industries-

- Heavy duty (solar ready) wood - Successfully disseminated more than 250 nos potter’s wheel to field through KVIC.
- Energy efficient AC wood lathe

- (b) Infrastructure facilities and expertise available (give details).

Facilities available at Rural craft and engineering section, MGIRI, Wardha-

- Well-equipped workshop for design and fabrication of prototypes needed by various sections.

- A unique Artisan's Complex train artisanal entrepreneurs in the Vishwakarma Gurukul style and to enable market feedback for their products.

(c) Details of completed and ongoing projects during the last 3 years.

Sr. No.	Title of the project	Start date-Completion date	Name and full address of funding agency	Amount sanctioned*	Amount received*
1	Five days consultative workshop on papier mache.	2023-24	MGIRI, Maganwadi	Rs5.75 Lakhs	Rs5.75 Lakhs

*Enclose copies of the sanction – Enclosed.

- District / Area to be taken up for the project:-** MGIRI will identify the Master craftsman/artisans from different clusters / experts who has worked or is working in the field of Papier Mache and will be communicated and ask them to be part of the development activity of the industry.
- Location of projects implementation and details thereon. N.A.
- If any developmental activity has been done in the proposed location prior to submission of this proposal by the Project Coordinator or the Organization, the details may be given in brief. NA
- Details of infrastructure of the organization in the proposed location. NA.

II - PART-B

1. **Title of the R & D proposed - - “Field study and documentation of the complete process of Papier Mache craft of various clusters.”**
2. **Objectives of the proposed study-** The main objectives of the project proposal are following: -
 - i. to document the process, raw materials, and tools adopted by artisans of various clusters.
 - ii. to collect the information of artisan’s present status.
 - iii. to identify the problems faced for marketing the products of Papier Mache products.
 - iv. to make the list of artisans with address and contact details.
 - v. to list-out the available details of tools and manufacturers.
3. **Justification for the project based on the assessment of the existing resources and infrastructure** – The Directorate of HMPFI, KVIC, has sanctioned and released Rs5.75 lakhs to MGIRI to organize a consultative workshop to study the process of different clusters at one platform. However, it was observed that most of the artisans have already left their jobs, and those who are working are not willing to come and attend the workshop because of two reasons. The first category belongs to artisans doing their work independently but not getting a good market to sell their products. So, they diversified their profession and started conducting hobby workshops for interested visitors, which gave them respect, identity, and income. They are demanding an honorarium of Rs3000/- per day. The second category belongs to artisans who do their job on a work-contract basis, get less than 10,000/- per month, and are not willing to attend the workshop. So, MGIRI decided, on the request of the Directorate of HMPFI, KVIC, that the consultative workshop will be conducted for technical intervention, and a field survey for all available clusters will be conducted to collect detailed information about artisans of papier mache. The consultative workshop will help to list out the “problems of the manufacturing process”, and the field study will make a clear picture of the present status of artisans and their marketing system.
4. **The availability of proposed technology/intervention in the field/market etc.** – The different states of India, like Kashmir, Tamil Nadu, Madhya Pradesh, Rajasthan, Orissa, West Bengal, Bihar etc., are famous for their Papier-messy craft. Also, there is a demand for Papier Mache artifacts.
 - In **Bihar and Jharkhand**, Papier Mache as an art form goes a long way. The cities of Patna, Hazaribagh, Murhu, Saraikela and Madhubani are well known for their traditional styles of Papier Mache work. A range of decorative as well as lifestyle articles such as pen stands, envelope holders, Papier-weights, jewel boxes, etc. are made in Delhi by combining waste Papier with clay.
 - **Indore and Gwalior in Madhya Pradesh** has its own style of Papier Mache work and the figures of gods and goddesses, toys and cartoon images from Ujjain are well-known all-over India too.

- **Shantiniketan in Bolpur near Kolkata, West Bengal** is considered a pioneer of Papier Mache as an art form in India. A huge range of articles are produced by the artisans here.
- **Assam** is known for its colourful Papier Mache bags, files and folders, pen stands, etc.
- **Odisha** is famous for its Papier Mache craft. The artisans collect dry waste paper and cloth of different kinds and create a range of products with them. In Orissa, papier-mache masks and figurines are inspired by the patachitra tradition. Mukha, masks, are made by using a mould of clay and newspaper. Paper and cloth rags are soaked and applied in layers with locally made gum on the mould. Saw dust mixed with gum is applied smoothly, dried and burnished with sand paper.
- In **Kashmir**, Papier Mache has been used to manufacture small painted boxes, trays, étagères and cases. There is a very established market of these products due to their neat and beautiful finishing.
- **Rajasthan** produces an array of Papier Mache products using waste paper along with clay. Well established manufacturers and exporters in Jaipur market their range to hotels, restaurants and houses to enhance interiors. Pen stand, Animals, Tea light, Birds tea light, Fruits, Masks, Faces, Photo frames, Coasters, Boxes, Lamp stands, Christmas tree hangings, are available.

6. Relevance, usefulness, and justifications of the proposed work to the KVI sector in terms of economy, efficiency, productivity, quality, raw material utilization, etc.: The centuries-old papier-mache, an art form that is deeply interwoven with the culture and traditions of artisans, is dying a slow death as the number of people involved in the trade has decreased due to various reasons. However, the art is declining now as youngsters from the families involved in the business are not interested to carry on the legacy due to lesser returns. (<https://www.deccanherald.com/india/jammu-and-kashmir/centuries-old-papier-mache-art-in-kashmir-dying-slow-death-2637064>)

So, it is necessary to study the entire system and complete supply chain of papier mache craft of each cluster. So, that the facilities available with artisan for production of papier mache craft will be fully exposed to the researcher for further technical interventions.

7. Schedule (month-wise Action Plan) for implementing the project: These quarterly activities of project as follows -

S No	Activity	Qrt 1	Qrt 2	Qrt 3	Qrt 4
1	The hiring of man-power and purchasing of camera				
2	Survey of Cluster-1, 2 & 3				
3	Survey of Cluster-4, 5, & 6				
4	Editing of video and preparation of report				
5	Submission of the final report to KVIC				

- 8. Implementation methodology in brief (stepwise) –**
 - i. The PI or Co-PI and Project Associate will visit each cluster and collect detailed data and video clips of each group.
 - ii. Proper documentation of each cluster will be made, and edited videos will be uploaded to YouTube to submit KVIC, allowing researchers to collect appropriate information to conduct further R&D.
- 5. Potential areas identified for promotion of micro-enterprises –** The artefacts of Papier mache are in demand, but the product cost is very high, and artisans are not getting an appropriate return for their labour. So, the Papier mache craft may be revived after identifying a relevant area for technical intervention for solving the problems.
- 6. Scientific and Technical interventions envisaged.** – Experts from technical institutes working / interested in the Papier mache field will be invited to work on the identified problems of the Papier mache.
- 7. Training programme envisaged** – Problem identification is the first step of technology intervention. After successful technological development training programme may be organized.
- 8. Linkages envisaged:** - Based on the information collected, KVIC will invite appropriate R&D project proposals from experts of various institutes interested in working on the identified problems of papier mache craft, and finance will be made available for selected R&D project proposals.
- 9. Follow-up Mechanism envisaged tapping the fullest benefit of R&D.** - MGIRI will systematically study the process, raw materials, tools adopted and problems faced in marketing of papier mache products. The experts interested in conducting further R&D will get first-hand information on each cluster. A data bank for papier mache craft will be created.
- 10. Exit Strategy (Plan after completion of the project)** – Complete data and all relevant videos made in systematic format will be handed over to KVIC for further action.
- 11. Expected outcome-** Based on the findings of the study of different clusters of papier-mache artisans, KVIC will formulate suitable scientific and outreach strategies to revive the endangered craft. Furthermore, having accurate artisan data with KVIC offices will expedite the execution of the development initiatives of Gramodyog Vikas Yojana.

12. Budget Summery

SN	Details	Rate	Quantity	Total Amount Rs (Lakhs)
1.	Manpower Project Associate	40,000	12 months	4.80
2.	Travelling Allowances for PI & PA (Air Fare + Taxi) for six cluster	50,000	50000 x 6	3.00
3	Hotel and Food for PI & PA for 6 days each place for six cluster	50,000	50000 x 6	3.00
4	Local Transport for field visits of six clusters	20,000	20,000 x 6	1.20
5	Preparation of report and editing of video			2.70
6	Purchase of Video Camera			3.00
7	Institute over-head cost 13%			2.30
			Total	20.00

Note-The inter-head budget will be adjusted for the exceeded expenses of any head.

- i. Certificate of Endorsement from the head of the institution should be in the prescribed format. (Annexure -III.).
- ii. Submission of Progress Report: A various activities carried out under this project is required to be submitted quarterly and also annually along with the data, summary etc... in the prescribed formats (Annexure--IV)

**Name & Signature of the
Project Coordinator**

Date:

Place: Wardha

**Name & Signature of the
Head of the Institution/Agency/Office**

Recommendation of
State Director/Divisional Director:

Signature
State Director/Divisional Director

ANNEXURE- III

(Ref : S.O. No. 1739, Dt:29.06.2015)

CERTIFICATE

ENDORSEMENT FROM THE HEAD OF THE INSTITUTION/OFFICE

1. We have gone through the terms and conditions of the S&T grant agreed to abide by and enter into an Agreement/MOU with OCKVI for implementing the S&T scheme.
2. We have neither obtained nor intended to obtain financial assistance from any other agencies, amounting to double funding.
3. We undertake to submit progress reports, statement(s) of accounts, utilization certificates, etc. as required.
4. Certified that **Dr.S P Mishra** is the Project Coordinator of the proposed S&T Project. The Project Coordinator will assume the responsibility of completion of the project.
 - Certified that the hardware, other basic facilities and such other administrative support required as per terms and conditions of the grant, will be extended to the Coordinator(s) throughout the duration of the project.
 - Our agency assumes to undertake the complete financial and other management responsibilities of the project, and will ensure compliance with the terms and conditions laid down.
5. Certified that the Society/Organization will extend benefits of the said S&T projects to the targeted beneficiaries of KVI activities only.
6. If any of the above statements found to be incorrect by the OCKVI at any point of time, the organization takes the responsibility to refund the entire amount released by OCKVI along with 10% interest as per GFR norms.

Date :

Place : Wardha

**Name & Signature of the
Head of Agency/Office**