

CSR Proposals of Social Relevance

1. Title of Project: Development of Power loom Noise Reduction Technology

2. Background/Motivation:

Power loom industry is a small and medium scale industry, and it is part of the residential community in several places in Telangana. Few people are operating old age machines from house or sheds which are not designed for quieter operations. The higher noise levels from these power looms creates annoyance to the surrounding community. The noise level exposure of Power loom operators is well above the specified levels for 8 hours operations and it leads to permanent hearing damage. Hence, it needs a development of holistic approach to protect hearing of operators and providing quieter surrounding environment.

3. Objectives of the project:

- Power loom Noise Impact Assessment on Operators at rural and semiurban places
- Providing engineering solutions for quieter power looms
- Holistic approach for power loom operator hearing protection

4. Brief Methodology:

The methodology of present proposal is to survey the actual noise level generated by a power loom, develop some method to reduce the noise level on the power loom and explore the possibility of controlling the noise generated by looms in a factory. An audiometric test will be conducted to assess the hearing levels of operators and correlate the dosage exposure of individual operators. Earmuffs will be provided to the few operators (100 people) in pilot project mode and take the feedback for wider community implementation. Acoustic treatment of working environment will also be considered for the study. However, these building acoustic solutions will not be generic for all site locations. A rural and semi-urban location will be considered for the study.

5. Target population/Beneficiaries:

- Power loom operators in semi-urban. Rural and surrounding population to the power loom

6. Expected Outcome/Deliverables:

- **Preserving Hearing ability of Power loom operators**
- **Developing quieter technologies for power loom machines**

7. Timeline and Budget:

	Year 1	Year 2
Budget (in Rs lakhs)	10 Lakhs	10 Lakhs

S. NO.	Task	Month 1-6	Month 6-12	Months 12-24
1	Hearing assessment			

2.	HPD Study			
3	Noise Source Identification*			
4	Noise Control Solutions Development			
5	Implementation and Validation			

8. Proposer Name & Designation:

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