

Development And Modification of Workstation For Rural Black Smithy

Majority of the people in the rural India has to depend on the black smithy as their ancestral family business for catering their daily needs. Manufacturing of the various articles for agriculture, for domestic purpose and also for decorative purposes and marketing them in a weekly bazaar in the rural areas is the routine work of these artisans. Earnings from this business in which almost all the family member 546+456+s are involved is not enough to cross the poverty line. Survey labeled black smithy in the rural sector as unorganized sector. The workstation fabricated under KVIC was redesigned in this project work after minute observation of the routine process of the rural blacksmith. Besides the observation, interactive feedback from the artisans regarding the workstation developed by KVIC was also considered as important base for redesigning the workstation. The following were the features of the project work.

- To develop workstation for the rural blacksmith who is still working in unorganized manner.
- Modification was based on the feedback received from the artisans (end users) regarding the previously developed workstation.
- Improved Thermal efficiency.
- Better utilization of the heat from flue gases with the additional attachments.
- Better prone to ergonomic design.
- Use of temporary fasteners made it possible for easy assembling.
- Relatively more portable design.
- Higher temperature in the hearth is possible.

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Fabricated workstation for Black smithy



Fabricated model exhibited at National workshop of Indian Blacksmithy forum on Agriculture Tools and Traditional Blacksmithy: Present trends and Future Prospects, during January 20-22, 2011 at Bardoli, Gujarat.

