

Rural Infrastructure Development Projects (RIDP) **under** **MGNREGA**

INTRODUCTION:

GTU has always supportive hand and actively participated in all the activities for social work apart from academic issue. Development of rural areas is slow due to improper and inadequate provision of infrastructure with compare to urban areas. Rural infrastructure is not only a key component of rural development but also an important ingredient in ensuring any sustainable poverty reduction programme. The proper development of infrastructure in rural areas improves rural economy and quality of life. It promotes better productivity, increased agricultural incomes, adequate employment, etc. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) is one of the opportunity where students get platform to get real world experience with the village upliftment which is connected to nation development.

The different works covered under MGNREGA providing livelihood security to the rural poor. Enhance livelihood security of the rural poor by generating wage employment opportunities in works that develop the infrastructure base of that particular locality, Rejuvenate natural resource base of the area concerned, Create a productive rural asset base, Stimulate local economy for providing wage employment & Ensure women empowerment are the basic objectives of MGNREGA.



The team of GTU is working to achieve all the core objectives under MGNREGA. The main focus will be the quality improvement with village development which is major problem facing because of unskilled labour and providing alternative design solution by using advance technology.

Projects under MGNREGA:

The various permissible project works for rural development which are providing livelihood security to the rural poor are as follow:

- ❑ Water conservation and Rainwater harvesting including contour trenches, contour bunds, boulder checks, gabion structures, underground dykes, earthen dams, stop dams and spring shed development;
- ❑ Drought proofing including afforestation and tree plantation;
- ❑ Irrigation canals including micro and minor irrigation works;
- ❑ Provision of irrigation facility, dug out farm pond, horticulture, plantation, farm bunding and land development on land owned by households;
- ❑ Renovation of traditional water bodies including desilting of tanks;
- ❑ Land development;

- ❑ Flood control and protection works including drainage in water logged areas including deepening and repairing of flood channels, chaur renovation, construction of storm water drains for coastal protection;
- ❑ Rural connectivity to provide all weather access, including culverts and roads within a village, wherever necessary;
- ❑ Construction of Bharat Nirman Rajiv Gandhi Sewa Kendra as Knowledge Resource Centre at the Block level and as Gram Panchayat Bhawan at the Gram Panchayat level;
- ❑ Agriculture related works, such as, NADEP composting, Vermi-composting, liquid bio-manures;
- ❑ Livestock related works, such as, poultry shelter, goat shelter, construction of pucca floor, urine tank and fodder trough for cattle shed, azolla as cattle-feed supplement;
- ❑ Fisheries related works, such as, fisheries in seasonal water bodies on public land;
- ❑ Works in coastal areas, such as, fish drying yards, belt vegetation;
- ❑ Rural drinking water related works;
- ❑ Rural sanitation related works, such as, individual household latrines, school toilet units, anganwadi toilets, solid and liquid waste management;
- ❑ Construction of anganwadi centres;
- ❑ Construction of playfields;
- ❑ Any other work which may be notified by the Central Government in consultation with the State Government.

Project Team:

The Project team is been formed by following manner:

2 Degree + 3 Diploma for (5 - 7 Villages in One Block) or

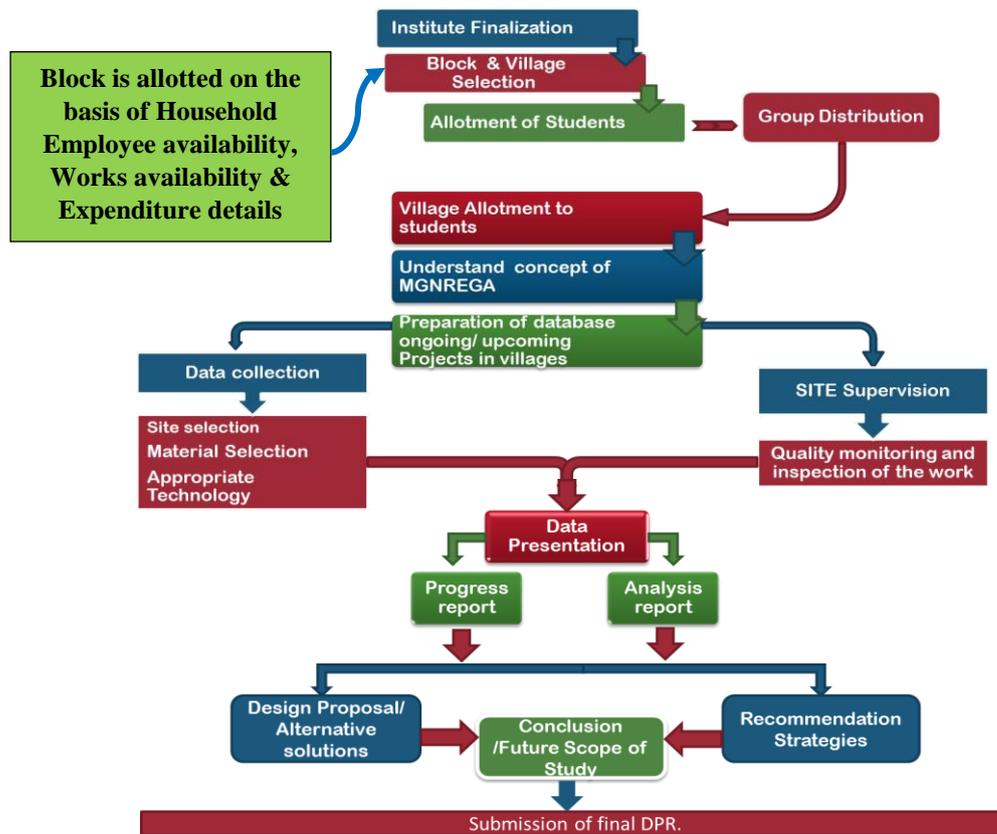
4 Diploma for (5-7 Villages in One Block) or

3 Degree for (5-7 Villages in One Block).

*Total 455 students
19 Degree and 17 Diploma Engineering
are working in current academic year for
RIDP under MGNREGA
48 blocks
by covering
411 villages.*

Methodology:

The methodology to fulfill all the objectives under MGNREGA is as follows:



Students of GTU are performing the following functions (deliverables):

- **Field data collection** for the ongoing/ upcoming infrastructure development projects covered under MGNREGA for the village;
- Field data collection for **site selection process**;
- Proposal/ suggestions for the **Material selection** process with respect to durability and affordability parameters;
- **Skilled supervision** for the ongoing/ upcoming infrastructure development projects with respect to quality improvement;
- Selection of **Appropriate technology** for quality improvement with the optimum time frame;
- **Estimation & Costing and Rate analysis** part for the upcoming Projects if needed;
- **Design proposals/ alternative solutions** for the projects covered under MGNREGA for the village;
- All other **civil engineering related works** for the projects executed under MGNREGA;
- **Progress report submission, Inspection report** and **Detail project report** submission for analysis and action to achieve specific objectives.



Work done so far:

The hard work put in by the GTU students and faculty members, has made this project a great success. The design of the process, building capacities through site visit, finding issues related to technical parameters and alternative design proposal for the ongoing work for sustainable future.

Collected all essential information from **site visit** of different ongoing projects. The **SWOT analysis** for all the projects were performed with respect to **Quality, Labour, Project Cost and Material** parameter to identify the root problems of the projects under MGNREGA. Based on the analysis the proposed development and planning strategies suggested as per all the regulations and norms along with the consultation of concerned Government Officials.

In this phase each group has given **alternative design proposal** for each group by considering the parameter like strength, durability and sustainability of the infrastructure for each village by using **appropriate technology** concept which will help to achieve auxiliary objective of strengthening natural resource management through works that address causes of chronic poverty like drought, deforestation and soil erosion and to encourage sustainable development.

Future Strategies:

- Project work analysis of all respective villages
- Future strategies for strengthening & developing new technologies
- Technical workshops for Designing Infrastructure facilities, Quality Improvement and Construction Management
- Presentation and brief report submission of work done by the students to Government officials, MGNREGA
- Managing Growth through Sustainable planning

Outcome:

The students of GTU has provided all the essential database with technical parameters for the developmental work in villages that could under taken as per the need of the village people as per all the regulations and norms along with the consultation of concerned Government Officials (TDO, DDO & Sarpanch) & team MGNREGA. At the end of the project period, Detail project report with all essential analysis, alterative solutions and sustainable proposals will be reached to the respective authority for effective development of villages.

On behalf of RIDP under MGNREGA, GTU

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