

An Initiative of water conservation through
“ROOF TOP WATER HARVESTING IN PMAY-G PUCCA HOUSE”

Place of Implementation	Gram Panchayat- Deeh Dhaggupur, Block Kurebhar, District Sultanpur, Uttar Pradesh.
Implementing Agency	Gram Panchayat
Sector	Water And Sanitation
Year of Launch	2020-21

BACKGROUND

To achieve the objective of **housing for all by 2022** MoRD has Targeted 2.95 crore PMAY-G Houses out of which 14.6 lakhs Houses are in Uttar Pradesh.

In para 8.1(h) of PMAY(G) guideline it is mentioned that The State / UT may develop group /individual amenities like house sites, Bio fencing ,paved pathways ,approach roads, soil conservation and protection work etc. through convergence of MGNREGA for the beneficiary of PMAY-G.

In above context one of the basic amenities **“Roof top water harvesting in every PMAY-G Pucca house”** was visualized and constructed in **“Deeh dhaggupur”** gram panchayat in Sultanpur as a pilot basis, which increased ground water table through rejuvenation of aquifers. This helped in water logging problem around constructed pucca house as well as catered roof seepages which ensured the durability of PMAY-G House.

This small initiative upgraded the Socio-economic status of the marginalized section of society.

INTERVENTION

Every PMAY-G house have a Roof top rain water harvesting system consist of a PVC down pipe, Filter chamber and Two recharge pits. These pits are sufficient enough to recharge rain water up to 20000 liters annually.

Beneficiaries were mobilized to work in this project. Through social mobilization people developed the habit to conserve water and change in behavioral pattern regarding sanitation and hygiene. Beneficiary started making **“Poshan Vatika”** a small kitchen garden to fulfil their nutritional needs for women and children.

This project helped PMAY-G beneficiary to earn both skilled and Unskilled wages in this pandemic of COVID-19.

IMPACT

1. Increased ground water table with developed sense of saving water, sanitization and hygiene among beneficiaries.
2. Promote income generation through 100 Mandays in MGNREGA.
3. Ensured nutritional supplement through “Poshan Vatika”.
4. Employment opportunity to Skilled Masons.
5. Sense of belongingness towards PMAY-G.
6. Minimize maintenance cost of PMAY-G.
7. Promotion of Cash Crop farming and more yields too.

KEY OUTCOME

This project helped in raising water table, Availability of potable water throughout the year, more water for irrigation purpose, economically empowered the beneficiary family, ensured the durability of dwelling unit, social and behavioral changes among the masses, sense of belongingness to the government scheme.

SCALE UP OPTION

s.no.	Implantation area	Avg annual rainfall mm	Number of PMAY-G Units	Volume of Water to be recharged per year (in lakh Liters approx.) [^]
1	Single PMAY-G Unit *	1009	1	0.20
2	Gram Panchayat deeh Dhaggupur	1009	197	39.40
3	Block Kurebhar	1009	4326	865.20
4	District Sultanpur	1009	44796	8959.20
5	Uttar Pradesh	990	1461516	292303.20
6	Pan India	650	22144067	4428813.40

*As per PMAY-G guideline min roof area is 25sq meter/269 sq ft..[^] calculated on the basis of table 1 bureau of Indian standard roof top water harvesting guideline.

The above table clearly depicts the picture of scaling up of this practice to all over country.

SUMMARY

Roof top water harvesting in every PMAY-G pucca house is an innovative project constructed with convergence of MGNREGA. There are many benefits to the beneficiary and to the society at large. This project helped in raising water table, availability of potable water throughout the year, more water for irrigation purpose, economically empowered the beneficiary family, and ensured the durability of dwelling units.

LESSON LEARNT

This best practice needs scaling up of the project, clear policy framework and robust training module.

PHOTORAPHS





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