

Unnat Bharat Abhiyan

Puranpur

Indian Institute of Technology Roorkee

Tentative Action Plan for Autumn Semester 2023

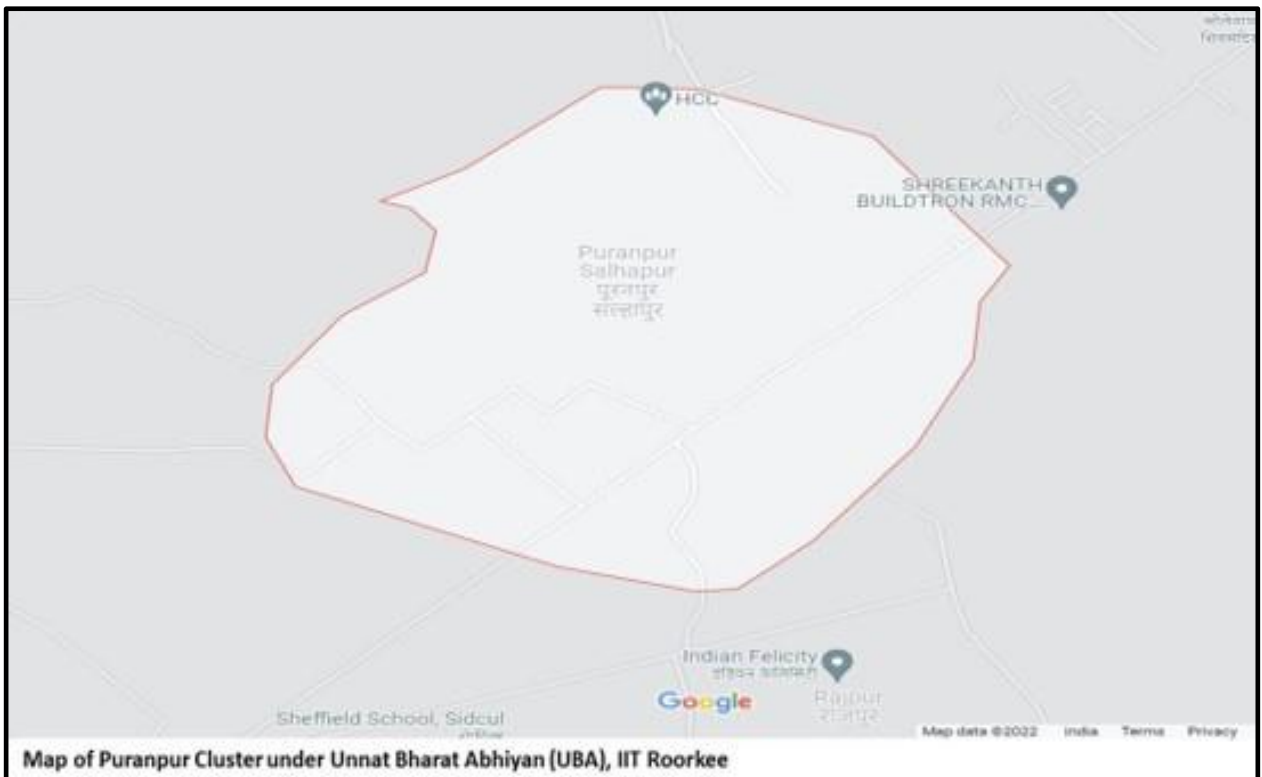
About the Village

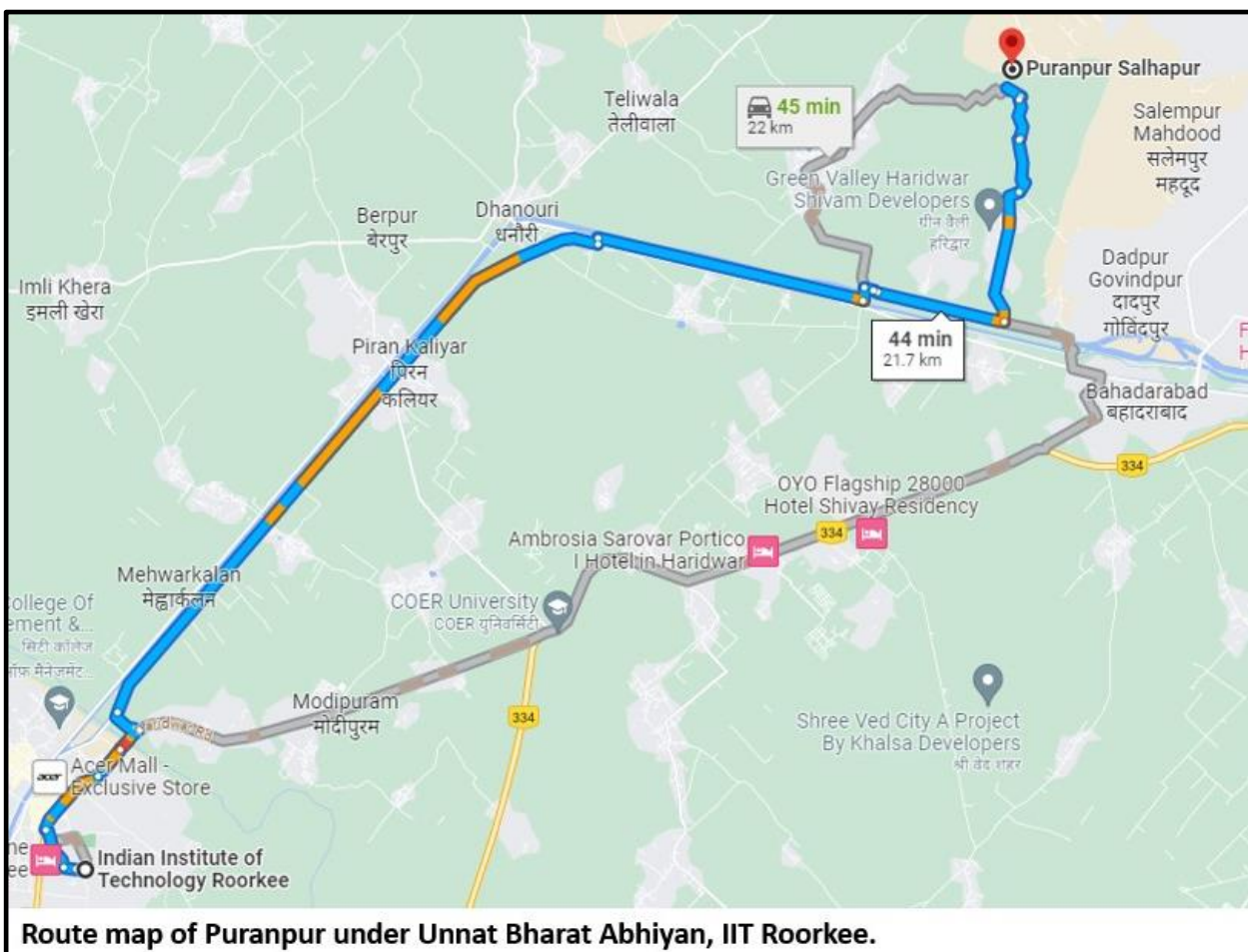
Puranpur was first identified in 2014. Following are the demographic details & condition of the village, along with the involvement of UBA IIT Roorkee for the past few years.

Location	Bahadarabad block of Haridwar district in Uttarakhand (at 29 km from Roorkee).
Route Map	https://goo.gl/maps/xq59zXTP5MbM65AJ6
Nearest Major Railway Stations & Airport	Roorkee and Haridwar Junction (Railway), Dehradun (Airport)
Nearest Hospital	Bahadarabad
Nearest Bank	Punjab National Bank, Puranpur
Population Details	<p>Total Population: 2826 (Census 2011): 1517 males & 1309 females</p> <ul style="list-style-type: none">• 500-600 households• Most houses are privately owned (ancestral), in good physical condition & older than 25 years.• Most households have <i>pakka</i> houses (70%), few have thatched roof.• Most have bank accounts in PNB but don't use online payment.• Some visible cases of child marriage• Age group (24-60 years) is the most populous.• The population of children aged 0-6 is 516*, which makes up 18.26 % of the total population of the village.
Sex Ratio	<ul style="list-style-type: none">• Average Sex Ratio of the village is 863, lower than the Uttarakhand state average of 963.• Child Sex Ratio for Puranpur as per census is 977, higher than Uttarakhand's average of 890
Literacy Rate	<ul style="list-style-type: none">• In 2011, the literacy rate of Puranpur was 33.51 % compared to 78.82 % of Uttarakhand• Male literacy: 40.61%, Female literacy: 25.05%

Occupation	<ul style="list-style-type: none"> • The population mostly engaged in labour & wood-cutting, while others in agriculture, private companies, masonry, small-scale industries, running shops, tailoring, driving etc. • About 200 seasonal <i>Gujjar</i> migrants (Oct-Apr), mainly dwelling in Rajaji National Park Area
Education	<ul style="list-style-type: none"> • One school (run by an NGO) is in the main village, and one primary school is in the forest area. • Most house heads are illiterate, with very few 10th pass and 2-3 graduates. • Some children go to nearby towns like Dehradun for studies. • No government aids are available for education.
Cooperative Groups & SHGs	<p>04 SHGs are currently present in the village.</p> <ul style="list-style-type: none"> • Lakshya SHG • Kanha SHG • Laxmi SHG • Aarti SHG
Condition of Water	The main source of drinking water is Tube-well.
Condition of Houses	<ul style="list-style-type: none"> • All people had a roof on their heads and most of the households had toilets. ITC had constructed toilets in the past through CSR. However, many toilets under <i>Nirmal Bhaarat Abhiyan</i> are left unconstructed. • Electricity connection is quite stable, with most areas receiving electricity at least 20-21 hrs/day.
Services	<ul style="list-style-type: none"> • Only 4-5 handpumps & 2-3 tube wells in the village • Lack of medical facilities, though there are 2-3 medical stores but no availability in emergency cases (no community healthcare centres) • No streetlights on the highway near the village • No source of renewable energy • 50% roads <i>pakka</i>, 50% roads <i>kuccha</i> • Poor sanitation in toilets due to poor drainage
Milk Production	<ul style="list-style-type: none"> • Maximum villagers have goats in their houses, while some have cows too. • In general, the <i>non-gujjars</i> have 1-2 cows or buffaloes and 2-3 goats, whereas <i>gujjars</i> have 15-20 cows or buffaloes. • They generally use milk for their domestic purposes and sell the remaining to the dairy managers at a rate around Rs.35 per litre and the dairies sell it at higher rates, around Rs. 50 per litre in the village and nearby places like Dehradun.
Hygiene	<ul style="list-style-type: none"> • No waste disposal system • Overflow of water on roads in rainy season • Water from handpumps turns yellow after 15 minutes
Initiatives conducted by UBA IIT Roorkee	iNSPIRE (Fun & Learn Activities for Students), Biogas Initiative, Information & Communication Technology (ICT), Financial & Digital Literacy Camp, JNVST Preparation for School Students, LED Camp
Ongoing Initiatives by UBA IIT Roorkee	Bio-enzyme Initiative, Vermicompost, Computer classes, Science Exhibition, Azolla Cultivation

Glimpses





Date-wise Tentative Action Plan

The date-wise tentative action plan for team Puranpur for Autumn Semester 2023 follows.

1. Candle-making Initiative.

The team plans to start this initiative with the SHG community of Puranpur Village. It will be an appropriate initiative for Diwali. They will arrange training sessions on preparing candles from the basics and guide them on taking precautions while handling melted paraffin wax. It can generate a good amount of profit.

Market places:

- IIT Roorkee Campus
- Wholesale Dealers
- Churches
- Temporary Stalls set up for Diwali.

Date	Activity
August 2023	Planning training sessions in the third week of August. Research marketplaces for the availability of raw materials
September 2023	Working on the production Regular village visits to check if everything is working smoothly

October 2023	Supplying final products to the market by the third week of October
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2. Vermicomposting

The team is planning to restart vermicomposting in the village Puranpur, which will help in organic waste management and benefit the farmers economically. The villagers are not completely unaware of such practices. After meeting with the farmers, the team learned that the bed they had tried to set up earlier was destroyed due to heavy rain. Hence, the team plans to start vermicomposting in the village to again target organic waste management after the rainy season. The team would first collect the contacts of the farmers in the village interested in starting vermicomposting on their farm. The interested farmers would be trained and guided to set up the bed. They are also working on a continuous flow method of vermicomposting.

Date	Activity
August - September 2023	Train the farmers, install the Vermi bed, and prepare the initial compost.
October 2023 onwards	Regular visits to examine to the beds installed.

3. Jawahar Navodaya Vidyalaya Selection Test (JNVST)

The team is planning to enrol students for JNVST. It is a selection test conducted by the NVS (Navodaya Vidyalaya Samiti) across India. The student who is studying in class 05th is eligible for this test. The JNV changes the children's mindset and provides better facilities to enhance their skills. 08-09 students are already taking coaching from Raju ji for the same. The team will contact the principal of their villages, send the JNSVT form to the school and identify other brilliant students. They will collect necessary data from the students and parents, including their Aadhar cards (Both) and caste certificates and complete the required form filling. They will also provide guidance and papers for the students to prepare and practice regularly.

Date	Activity
Before 31 August, 2023	Identification and registration of students
31 August, 2023	Last date for registration
04 Nov, 2023 20 Jan, 2024	Exam date

4. Azolla Cultivation Initiative

The vision of this initiative is to enhance the existing fodder used by farmers for their cattle by introducing Azolla, a nitrogen-rich plant that can potentially increase milk yield by up to 25%. To kickstart the project, the team plans to approach a single farmer and provide them with a comprehensive explanation of the benefits they can expect from adopting this new approach.

Once Team successfully convinces the first farmer, the team intends to collaborate with a faculty member from a private institution located in Dehradun. This faculty member will assist them in setting up their first Azolla pit as a one-time measure. This initial experience will serve as a valuable learning

opportunity for the team, enabling them to replicate and implement the same process in subsequent bed setups.

Looking ahead, the team envisions scaling up the initiative by creating multiple beds of Azolla to ensure its long-term and impactful growth. By learning from the expertise of the faculty during the first setup, they aim to apply those insights to future bed installations, thereby maximizing the positive outcomes of the initiative.

The team is willing to set up 4 beds by the end of this term and will also focus towards making it more sustainable and replicable, allowing farmers to continue with this initiative.

Date	Activity
15 August 2023	Pit making and complete installation of first bed
15 September 2023	Monitoring and replenishment of first bed along with installation of next bed/pit
15 October 2023	Feedback and reviews from previous installations along with installation of next bed/pit
15 December 2023	Session and demonstration for interested farmers to teach them about the whole process of installation which will help them to ape it in future. Conclusion with the installation of last but not the least bed/pit.

5. FPO Initiative

The team conducted a thorough observation of the prevailing agricultural practices, noting that farmers predominantly sold their produce through local Mandis, which resulted in relatively lower returns for their efforts. Recognizing the need for a more robust and sustainable approach, the team identified the potential benefits of establishing a Farmers' Producer Organization (FPO).

After extensive research, the team identified a suitable existing FPO that has expressed a willingness to collaborate with farmers. The team's primary objective is to facilitate the connection between young and enthusiastic farmers and this FPO, with the valuable assistance of its head.

By joining the FPO, farmers can anticipate a range of promising advantages. Firstly, they can expect a steady increase in their income, as the FPO is equipped to streamline marketing and distribution processes, optimizing their products' market value. Moreover, access to advanced agricultural equipment provided by the FPO will enable farmers to enhance their productivity and efficiency, thus contributing to overall yield improvement.

Date	Activity
05 September 2023	Approaching interested farmers, convincing them, organizing micro sessions in a group of 5-7 farmers
05 October 2023	Connecting convinced farmers with the help of identified FPO's head, Shubham.

6. Enrolment of villagers in different Schemes

The Indian government comes up with several schemes for the benefit and welfare of society and its citizens. These schemes are spread throughout the nation which are wither related to state schemes and central schemes, guided by the state or Central government accordingly. So, we as a team decided to spread awareness among the villagers about these schemes and help them get registered in the same.

Some of the schemes are -

1) PM Kisan Samman Nidhi

Eligibility: Farmers should be below the poverty line (BPL) and possess less than 5 acres of land.

Benefit: The scheme provides an annual financial benefit of Rs.6,000.

Required Documents: Applicants need to submit landholding papers, Aadhar card, bank account details, and income certificate.

2) National widow pension

Eligibility: the applicant should be a widow who is at least 18 years old and living below the poverty line

Benefit: Rs.600 per month

Required Document: Applications need to submit death certificate of the deceased husband, Age Proof, BPL certificate, residence proof, bank details.

3) National old age pension

Eligibility: The applicants should be at least 60 years old, belong to the economically weaker sections, and fall below the poverty line (BPL).

Required Document: Age Proof, BPL certificate, residence proof, bank details.

Benefits: Rs 1500

For this our team will conduct a survey. And we will collect documents regarding the schemes.

Date	Activity
Mid of august	Spreading the awareness and taking surveys of people not enrolled in different schemes
September	Organising camp to get their documents ready for applying in different schemes
October	Enrolling them in different schemes

7. Mushroom cultivation

The team is planning to start mushroom cultivation in the village. Generally, it is grown in the winter season but can also be grown in summer season under suitable conditions which include temperature regulation and proper ventilation. It would proceed as –

- (1) As of now none of the farmers is familiar to mushroom cultivation. The team would begin with spreading knowledge and collecting the data of farmers interested in mushroom cultivation.
- (2) For training purpose, the team had contacted various organisations and individuals. Some of them were-
 - Mrs. Hires Verma (Mushroom Women of Uttarakhand, CEO and MD at Harzens International, Uttarakhand). She is one of the largest exporters of mushroom and have also provided training to over 1200 farmers in Uttarakhand.
Also, she would provide the compost and seeds required and would also buy the yield produced.
 - ICAR- Directorate of Mushroom Research, Solan, Himachal Pradesh – This institute provide online training session of around 3 hrs and charges Rs.2000. They also provide seeds and compost.

- (3) For now, the team would work with Mrs Hires as the expenditure in that case would be minimum moreover, she would also serve as the marketplace for the yield.
- (4) Subsequently the production and quality would be levelled up and it can turn out to be of great profit for the farmers.
- (5) As of now no such expenditure would be required from our side as if implemented it would turn to a mutual buyer-seller agreement between the trainers and the farmers.

Date	Activity
15 August, 2023	Survey to acknowledge farmers and collection of data regarding mushroom collection.
15 September, 2023	Training session for farmers regarding mushroom cultivation.
15 October, 2023	Farmers would start producing mushrooms.

8. Renovation of Water Filter

The team has decided to renovate a water atm in Puranpur to ensure supply of clean water for the villagers. Many people in villages rely upon handpumps and taps to obtain drinking water which is contaminated and causes certain diseases. Hence our setup can certainly benefit them a lot as they were also willing to produce water from the water ATM. To ensure the maintenance and safety of the ATM, the team talked to Pradhan, and he said that he would provide fencing around the Filter, and the principal also ensured the maintenance. The undertaking for water ATM shall be signed by the then school principal and Pradhan.

Plumber + Labour	1000
Raw Material	1400

Date	Activity
August 15, 2023	Collection of samples
Mid-September, 2023	Testing of sample and finalizing composition
October, 2023	Setup of water filter

9. Waste Management

The Team succeeds in starting the garbage vehicle in the village by coordinating with Pradhan twice a week. In addition to this Team is planning to organise a *swachhta* day to spread awareness regarding waste Management in the village around Gandhi Jayanti. It will include a cleanliness drive in the village also Different competitions in the school.

Sitting arrangements for villagers	2000
Broom and other cleaning materials	1500
Jute bags as prize for competitions	1000

10. Renovation of Public Library

The Team have decided to renovate the previous public library present in village. The cleaning of the library would be done in cleanliness drive. Books are already present there. Team will talk to Pradhan regarding the maintenance of the library.

Date	Activity
2 October, 2023	Cleaning of library with participants

11. Session regarding the New Education Policy

The Team have decided to organise a session regarding the new education policy. It is crucial for the students and the parents that they should know about the new education policy. It makes it easier for them to take decisions about their future.

Date	Activity
January, 2023	Seminar

12. Documentation Camp

The team has decided to organise a documentation camp in the village with the *Pradhan*. In a survey, we found out that many villagers need more documents to get the benefits of many governmental schemes, so it is essential for them to have these documents.

Date	Activity
Mid-October, 2023	Awareness programme regarding the camp
October, 2023	Camp

13. Micro ATM

The team has decided to set up a village micro-ATM to ease the villagers for bank work. The team will organise a seminar for the interested youths in the village. It is a good business and employment opportunity for them. The transaction through micro-ATM doesn't include any extra charges, and it will be a lot easier and safer for the village people to deposit and withdraw money from the bank.

DATE	ACTIVITY
January, 2023	Seminar to gather volunteer
February, 2023	Setup of micro-ATM

14. Donna Pattal Initiative

The *Donna Pattal* initiative by the team of Unnat Bharat Abhiyan will aim to promote a plastic-free and sustainable alternative by using laminated plates made from beeswax. To begin, the team will reach out to other Self-Help Group (SHG) women, explaining the uniqueness and eco-friendliness of the initiative and raising awareness about the harmful effects of plastic. Through these efforts, the team will encourage the other SHG women to invest in the Donna Pattal initiative.

Once the support of SHG women is secured, the team will proceed to contact sellers of India Mart to procure the required machinery for producing laminated plates. The machinery will be delivered to the desired location, and the team will ensure that training is provided to operate it effectively. Additionally, they will purchase raw materials for the lamination process from the same sellers.

To implement the lamination process, the team will procure necessary utensils, brushes, and other required items with the help of SHG women. This will empower the women to actively participate in the production process and build a sense of ownership and involvement in the initiative.

The steps of lamination using beeswax:

- 1) Melt the beeswax in a suitable container.
- 2) Once melted, use a brush to apply the beeswax on Donna-Pattal sheets.
- 3) Leave it to cool and settle properly.

The team will not only focus on production but also on creating a market for Donna Pattal. They will approach nearby street food sellers and small food shops, explaining the benefits of using Donna Pattal over plastic or other disposable materials, and convincing them to adopt the eco-friendly alternative. Furthermore, the team will also collaborate with the canteens of IITR campus, aiming to expand the reach and impact of the initiative.

Overall, the action plan focuses on mobilizing SHG women, setting up the production process, creating a market for Donna Pattal, and fostering sustainable practices by promoting a plastic-free alternative. Through these steps, the Donna Pattal initiative will contribute to environmental preservation and sustainable living.

Date	Activity
August, 2023	Contacting the present SHG women and the other to brief them about this initiative
August, 2023	Awareness session promoting plastic free environment
September, 2023	Setting up machine and training
September, 2023	Beeswax lamination training
October, 2023	Initialising the production
October, 2023	Marketing and packaging

Tentative Budget

Initiatives	No. of Visits	Members Required	Estimated Budget			
			Log.	D.A.	T.A.	Total
Candle making	5	2	18000	1500	280	19780
Vermicomposting	-	-		-	-	0
Jawahar Navodaya Vidyalaya Selection Test (JNVST)	1	1	-	-	-	0
Azolla Cultivation	4	1	2500 + 1500 = 4000	1200	280	5480
Farmer Producer Organisation (FPO)	5	2	1500	-	-	1500
Enrolment of villagers in different Schemes	5	3	-	-	-	0
Mushroom cultivation	5	2	-	-	-	0
Renovation of Water Filter	5	2	3000	1800	-	4800
Waste Management	5	2	4500	1800	-	6300
Renovation of Public Library	2	2	0	720	-	720
Session regarding the New Education Policy	2	2	500	720	-	1220
Documentation Camp	-	-	-	-	-	0
Micro ATM	4	2	500	1440	-	1940
<i>Donna Pattal</i> Initiative	5	2	30000	-	-	30000

Tentative total budget = Rs 71,740/-