

UBA Village Adhyan Activity Pool

1. SEG- Water Resource Management

S. No.	Activity	Expertise/ Stream
1	Water body health card and revival strategies	Civil/Geography/Ag. Engg.
2	Delineation and Mapping of Watersheds	Civil/Geography/Ag. Engg
3	Preparation of water budgeting of Village	Civil/Geography/Ag. Engg
4	Water quality analysis and preparation of Map	Civil/Chem/Geography
5	Documentation of local traditional knowledge/ practices related to Water Management	Civil/Ag/Geography/Geology
6	Design of rooftop rainwater harvesting systems for schools/village household	Civil/Ag/Geography/Geology
7	Water table monitoring and preparation of water table contours	Civil/Ag/Geography/Geology
8	Water sustainability	Civil/Geography/Geology
9	Best practices of water conservation and rainwater harvesting – Documentation	Civil/Ag/Geography/
10	Socio-economic impact of water in the village	Social science/ Economics/Ag/ management
11	Groundwater recharge plan/ Managed aquifer recharge	Civil/Ag/Geography/Geology
12	Planning and design of low-cost sensor-based drip irrigation system at farmers field	Civil/Electronics/Ag/
13	Planning and design of On-farm development	Civil/Ag/Geography/Geology
14	Preparation of Restoration plan of ponds/reservoirs of village	Civil/Ag/Geography/Geology
15	PRA based resource mapping	Social science/ Economics/Ag/ management
16	Document household water storage practices and gaps	Civil/Ag/Geography
17	Map and Document water emergency plan	Civil/Ag/Geography
18	De-silting plan of water bodies of Village	Civil/Ag/Geography/Geology
19	Surface/Lift irrigation plan of farmers field	Civil/Ag/Geography
20	Preparation of well logs of villages	Geology/ Geography/Civil

2. SEG-Sustainable Agriculture System

S. No.	Activity	Expertise/ Stream
1	Soil testing and preparation of soil map/ soil health card	
2	Crop planning for available resources	
3	Contingent crop planning under drought conditions	
4	Organic/ natural farming plan	
5	Plan of integrated farming system	
6	Preparation of plan of integrated pest management	
7	Documentation of local traditional practices in agriculture	
8	Planning for low-cost household sewage water management in villages	
9	Identification of common animal diseases and their remedies	
10	IoT based soil moisture monitoring of field	
11	Best practices in horticulture	
12	Farmer survey on agri-input costs	Economics / Management
13	Home garden mapping for nutrition security	Nutrition / Agriculture
14	Mapping of village manure availability	Agriculture
15	Preparation of Agri calendar with Panchayat	Rural Management
16	Mapping underutilized lands/ barren lands of village	Geography / IT
17	Plan for establishing Custom Hiring Centre at villages	
18	Preparation of plan to reduce drudgery reduction of farm women in villages	
19	Plan for setup nursery in the villages	
20	Preparation of plan for establishment of dairy unit in the village	
21	Plan for establishing Poultry / Goat unit	
22	Planning for establishing Bee keeping unit in the village	

	Resource Mapping: Agriculture	
23	Conduct soil and water testing	
24	Document existing cropping patterns and seasonal variations in crop choices	
25	Map village irrigation infrastructure and assess coverage gaps	
26	Identify and map water harvesting structures (ponds, tanks, recharge pits)	
27	Create a seed system map (sources, availability, varietal diversity)	
28	List and map institutional arrangement (FPOs/SHGs, social and farmer organizations)	
29	Record available custom hiring centres and the farm machinery they offer	
30	Survey households on accessibility and affordability of food commodities	
31	Prepare a credit map of available banks, cooperatives, and microfinance options	
32	Document crop and livestock biodiversity maintained by farmers	
33	Map social systems and local practices of collectivization, reciprocity, and sharing	
34	Track seasonal and permanent migration patterns among villagers	
35	Record tenancy arrangements and the prevailing rural labour system	
36	Map the village's five capitals: financial, human, social, natural, and physical	
	Need Assessment & Development Plan- Agriculture	
37	Conduct participatory need assessment through focused group discussions	
38	Facilitate the preparation of a comprehensive village development plan	
39	Carry out gender analysis in farming, labour division, and decision-making roles	
40	Assess dietary diversity and prepare nutrition security profiles of households	

41	Study aspirations of rural youth and opportunities for agri-based entrepreneurship	
42	Assess awareness and access to government schemes relevant to agriculture and welfare	
43	Identify technology gaps in crop production, value-addition, and farm mechanization	
44	Assess extension gaps – availability and reach of advisory services	
45	Study household-level climate vulnerabilities and current coping strategies	
46	Evaluate the performance and coverage of crop insurance schemes	
47	Understand the role of folk beliefs in shaping agricultural and health practices	
48	Analyze levels and causes of rural indebtedness among households	
49	Assessment of need for hi-tech solutions (drones, sensors, robotics, apps, etc.) and their feasibility of application	
	Technology interventions: Agriculture	
50	Organize Integrated Pest Management (IPM) awareness and training sessions	
51	Conduct nutrition awareness drives and promote kitchen/nutri gardens	
52	Demonstrate the use of drones, sensors, and mobile apps for smart farming	
53	Facilitate on-field demonstrations of low-cost, farmer-friendly technologies	
54	Create short participatory videos on success stories and traditional practices	
55	Mentor school children on agriculture, health, hygiene, and environment	
56	Identify and document farmer-led innovations for wider dissemination	
57	Support awareness and training on improved dairy and livestock practices	

3. SEG-Rural Energy System

S. No.	Activity	Expertise/ Stream
1	Preparation of energy loading at village	
2	Identify best suited source of renewable energy given topography (eg – wind, solar, micro hydro etc.)	
3	List out households without access to electricity	
4	Document Electricity connections provided including from new and renewable energy sources.	
5	Survey of LPG coverage in marginalized homes	
6	Household energy source mapping	
7	Survey on clean cooking practices (LPG, biogas, wood)	
8	Energy consumption audit	
9	Preparation of energy fact sheet for Panchayat	
10	Survey of village streetlight status	

4. SEG- Rural Craft and Artisans Dev. & Rural Industrialization and Entrepreneurship Development

S. No.	Activity	Expertise/ Stream
1	Identify Skill Demand and Skill Gap	
2	Identify MGNREGA workers and their skill set	
3	Documentation of craft and other hand-based practices at the village level	
4	GIS mapping of craft activities at each level	
5	Skill mapping of rural artisans	
6	Material and technology maps	
7	Intergenerational Knowledge Mapping	
8	Community Visual/Craft Archives	
9	Local Vocabulary and Lexicon Boards	
10	Digital Literacy for Craft Documentation	

11	Database of localized problems in craft sector	
12	Identify local traditional craft and artisan and current situation at village	
13	Documentation of caste/community-based craft clusters	Social
14	Data base of Self-Help groups and economic impact	
15	PAR on supply chain and market linkages	
16	Awareness about Government funding schemes for artisans	
17	Digital exhibition of best practices and products	

5. SEG- Participation in School Education

S. No.	Activity	Expertise/ Stream
1	Visit local schools and note basic infrastructure (classrooms, toilets, water, electricity, playgrounds)	Social Sciences
2	Interact with teachers to understand challenges in teaching and student attendance	Sociology
3	Conduct home visits to identify school-going children and reasons for dropouts (if any)	Social Work
4	Talk to students and observe their interests, problems, and aspirations	Psychology
5	Organize story-reading, drawing, or general knowledge activities for school children	Literature
6	Observe and document the functioning of Anganwadi centers (pre-school education)	Early Childhood Care
7	Talk to parents about their involvement in children's education and awareness about schemes	Sociology
8	Prepare a hand-drawn village map showing location of schools, libraries, and play areas	Geography
9	Conduct a simple quiz or competition in school to encourage learning in a fun way	Humanities
10	Collect and donate old books or learning materials for children (book drive)	Social Work

11	Help create wall paintings or educational charts (alphabet, numbers, health tips) in schools	Fine Arts
12	Conduct a cleanliness awareness campaign with school students	Environmental Studies
13	Make a list of schemes related to school education and check their availability in the village	Public Policy
14	Support school in organizing a school-community interaction day or open house	Public Relations
15	Collect simple stories or folk songs from elders to be used as teaching material	Literature
16	Observe availability of midday meals and hygiene practices in the school	Health Studies
17	Identify children with visible difficulties in reading or writing and suggest extra help	Psychology
18	Observe the presence of functional School Management Committees (SMCs)	Public Administration
19	Encourage school children to write or draw about their school experience (expressive writing)	Arts
20	Create a small report or photo booklet about village school strengths and gaps	Mass Communication
21	Organize a career counseling session for school students to explore various career options	Career Guidance
22	Assist in setting up a basic computer literacy program for school children	Information Technology
23	Help create a local history project by interviewing village elders and documenting their stories	History
24	Create a resource guide for students on online learning tools and platforms	Education
25	Organize a STEM workshop for school children to encourage interest in science, technology, engineering, and mathematics	STEM Education
26	Conduct a workshop on basic financial literacy for students (savings, budgeting, etc.)	Economics / Finance
27	Set up a small-scale solar panel or renewable energy project for the school to introduce students to sustainability	Environmental Science / Engineering
28	Organize a health and wellness session with a focus on mental health for students	Psychology

29	Help in creating a digital archive of local folklore, songs, and traditions	Digital Humanities
30	Set up a coding club to introduce students to basic programming and problem-solving	Information Technology
31	Create an entrepreneurial awareness program, focusing on practical business ideas students can pursue	Business Studies
32	Organize a peer tutoring program where older students assist younger ones with subjects they find difficult	Education
33	Conduct a basic agriculture workshop, teaching students about modern farming techniques and sustainable practices	Agriculture / Environmental Studies
34	Help organize a school science fair, encouraging students to conduct their own experiments and showcase them	Science Education
35	Train school teachers in using educational software or apps to enhance teaching methods	Educational Technology
36	Set up a reading club to encourage regular reading habits among school students	Literature
37	Conduct a workshop on gender sensitivity and promote equality in the classroom	Gender Studies
38	Organize a local skills fair where students can learn hands-on skills such as carpentry, tailoring, etc.	Vocational Studies
39	Start a waste segregation and recycling project in the school to promote environmental responsibility	Environmental Studies
40	Organize a tech talk or guest lecture by an expert to inspire students towards technical fields such as robotics, AI, or cybersecurity	Technology / Engineering
41	Mapping student dropout and re-enrolment patterns	Social Work / Education Planning

6. SEG-Capacity Building, Strategy for Convergence and Implementation of Various Govt. Schemes

S. No.	Activity	Expertise/ Stream
1	Documentation and data base of schemes for convergence	

2	GIS mapping of village and other amenities of the village	
3	Rope in Social Audit	
4	Mapping of beneficiaries of the schemes/programme/intervention in the village	
5	Evaluate the effectiveness of existing government or NGO interventions	
6	Document village database with details of migrants their professional position etc.	
7	Mapping of ongoing Central and State Government schemes operational in the adopted village	
8	Assessment of community awareness and access to key schemes	health, education, agriculture, livelihood, social security
9	Identification of gaps in scheme implementation and last-mile delivery	Humanities, Social Sciences
10	Facilitation of village-level awareness camps in coordination with local administration	Social Sciences
11	Development of convergence plans linking multiple schemes for holistic village development	
12	Documentation of best practices and success stories of scheme convergence	

7. SEG-Rural Infrastructure

S. No.	Activity	Expertise/ Stream
1	Village infrastructure mapping (roads, housing, water supply, drainage, electricity, digital connectivity)	
2	Document village database with details of migrants, their professional position etc.	
3	School infrastructure audit: toilets, water, lighting	Civil Engineering / Youth Survey Teams
4	List out condition of roads in and out of village	
5	Identification of all temporary structures and kutcha houses	
6	Document/ map current health infra and their condition (hospital, PHC, Ayush center etc.)	

7	Assessment of existing infrastructure and identification of critical gaps	
8	Community need assessment for basic and productive infrastructure	
9	Study and assessment of PMGSY, Jal Jeevan Mission, Saubhagya, Swachh Bharat infrastructure components in UBA network villages	
10	Design of low-cost, locally appropriate infrastructure solutions	
11	Preparation of village infrastructure development plans with prioritization	
12	Social audit of infrastructure projects implemented in the village	

8. SEG-Curriculum Reforms and Educational Institutions Social Responsibility

S. No.	Activity	Expertise/ Stream
1	Mapping institutional engagement with adopted villages under UBA	
2	Identification of opportunities to integrate village-based learning into existing curricula	
3	Assessment of student learning outcomes through village immersion	
4	Documentation of institutional social responsibility initiatives	
5	Creation of case studies linking academic learning with rural challenges	
6	Curriculum reorientation aligned with NEP 2020 and UGC guidelines	

9. SEG-Environment and Sustainable Resource Management

S. No.	Activity	Expertise/ Stream
1	Identify existing and potential sources of drinking water	
2	GIS mapping of village roads, water, electricity	Geography / IT

3	Map amenities in villages	
4	Identify missing amenities in villages	
5	Preparation of Biodiversity register/map	
6	Promote kitchen gardens for household vegetable production	

10. SEG-Ethos in Technical and Higher Educational Institutions

S. No.	Activity	Expertise/ Stream
1	Assessment of social, cultural, and ethical implications of technical interventions	
2	Organize respectful engagement sessions with village elders to understand local wisdom and traditional knowledge systems	
3	Documentation of responsible technology practices under UBA	
4	Conduct needs assessment with genuine listening and without imposing preconceived solutions	
5	Document and honor indigenous practices and local expertise	
6	Reflection exercises for students on values, empathy, dignity of labour, and social responsibility through village immersion	
7	Assessment of inclusiveness of HEI-led interventions with respect to gender, caste, disability, and marginalised groups	
8	Documentation of community–institution trust-building processes and ethical engagement practices	
9	Mapping of alignment of HEI activities with constitutional values, Gandhian philosophy, and national development goals	
10	Evaluation of institutional practices related to social accountability and public good orientation	

11. SEG-Liquid Waste Management

S. No.	Activity	Expertise/ Stream
1	Mapping of household and community-level wastewater generation	
2	Assessment of existing drainage and wastewater disposal systems	
3	Identify sources and types of liquid waste (domestic wastewater, agricultural runoff, animal husbandry waste)	
4	Water quality testing of local water bodies and sources	
5	Document water usage patterns and wastewater generation rates	
6	Identification of health and environmental impacts of improper liquid waste disposal	
7	Design of low-cost decentralized wastewater treatment options	
8	Greywater reuse planning for agriculture and horticulture	
9	Map natural water bodies and assess their contamination levels	
10	Test water quality parameters (pH, BOD, COD, dissolved oxygen) in drains and water bodies	
11	Study soil percolation rates for designing appropriate treatment systems	
12	Analyze the impact of liquid waste on groundwater and surface water quality	
13	Evaluate existing infrastructure like septic tanks, soak pits, or drainage channels	
14	Design and demonstrate kitchen garden wastewater treatment systems	
15	Propose community-level treatment solutions like waste stabilization ponds	

16	Develop models for greywater recycling for non-potable uses	
17	Create guidelines for maintaining septic tanks and soak pits	
18	Train local youth and self-help groups in basic water quality testing	
19	Develop local maintenance teams for community treatment facilities	
20	Create livelihood opportunities through waste-to-resource initiatives	

12. SEG- Sanitation & Solid Waste Management

S. No.	Activity	Expertise/ Stream
1	Household sanitation gap survey	Civil Engineering / Public Health
2	Mapping of public toilets and maintenance status	
3	Assessment of sanitation infrastructure and usage patterns	
4	Evaluation of Swachh Bharat Mission implementation at village level	
5	Mapping of solid waste generation, segregation, and disposal practices	
6	Design of village-level waste segregation and composting models	
7	Promotion of plastic waste reduction and recycling practices	
8	Behaviour change communication campaigns for sanitation and hygiene	
9	Preparation of village solid waste management action plans	
10	Assess sanitation facilities and Open Defecation Free (ODF) status	
11	Promote menstrual hygiene management among adolescent girls and women	

13. SEG- Rural Livelihood

S. No.	Activity	Expertise/ Stream
1	Mapping of existing livelihood activities and income sources	
2	Assessment of skill gaps and employment opportunities	
3	Study of agriculture, allied activities, and non-farm livelihoods	
4	Evaluation of SHGs, FPOs, and cooperative institutions	
5	Identification of value-addition opportunities at village level	
6	Livelihood diversification and seasonal employment analysis	
7	Preparation of livelihood enhancement plans linked with government schemes	

14. SEG-Rural Entrepreneurship Development

S. No.	Activity	Expertise/ Stream
1	Mapping of existing livelihood activities and income sources	
2	Assess the level of financial inclusion in rural areas and identify barriers to access to financial services	
3	Identification of potential rural enterprises based on local resources	
4	Market assessment and value chain analysis for rural products	
5	Study of successful rural entrepreneurship models	
6	Awareness on financial inclusion, credit, and startup support schemes	
7	Development of basic business plans for village enterprises	

8	Support for women and youth entrepreneurship initiatives	
9	Creation of enterprise incubation and mentorship frameworks	
10	Promote Self-Help Groups (SHGs) and microfinance opportunities	
11	Address loan traps and predatory lending practices	
12	Promote skill development for income generation	

15. SEG-Others

S. No.	Activity	Expertise/ Stream
1	Mapping vaccination coverage by age group	Public Health / Community Health
2	Document/ map current health infra and their condition (hospital, PHC, Ayush center etc.)	
3	Database of people with special needs and support services	Special Education / Inclusive Dev
4	Conduct door-to-door health surveys to identify common ailments and health issues	
5	Create awareness about government health schemes (Ayushman Bharat, immunization programs)	
6	Document healthcare accessibility challenges and gaps in medical facilities	
7	Assess maternal and child health status in the village	
8	Survey nutritional status of children, pregnant women, and elderly	
9	Educate families about balanced diet and locally available nutritious foods	
10	Address malnutrition and anemia through awareness campaigns	
11	Demonstrate food preservation and storage techniques	
12	Promote traditional nutritious recipes and millets consumption	

13	Address substance abuse and addiction issues among youth	
14	Promote yoga, meditation, and mindfulness practices	
15	Conduct basic computer and smartphone literacy programs	
16	Train youth on using educational apps and online resources	