Office of the Project Director
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Livelihood Improvement in Meghalaya

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Meghalaya Basin Development Authority

Japan International Cooperation Agency

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File No. MBDA/2023/907/(Part 1)/02 **Date: 18th July 2024**

Notification

SPMU MegLIFE will be conducting an 8-days intensive Training Programme on "Springshed Management" from **22nd to 30th July 2024** as per the schedule attached at **Annexure 1**.

The target audience for the training is as per **Annexure 2**. The participants will be grouped into 2 batches and the venue arranged for the respective batches is attached at **Annexure 2**.

Trainees shall arrange their accommodation as per the MBDA rate and this will be reimbursed from the respective DPMUs.

All concerned shall attend the training as per the schedule attached at **Annexure 1**.

Enclosed: As stated.

18/7

(Gunanka D.B., IFS)
Additional Project Director
MegLIFE & MegARISE
Meghalaya Basin Development Authority

File No. MBDA/2023/907/(Part 1)/02 **Date: 18th July 2024**

To:

1. All staff concerned - for necessary action.

Copy to:

1. The Project Director, MegLIFE, MBDA, Main Secretariat Building, Shillong.
2. DPD, MegLIFE, MBDA.
3. All DPMs, MegLIFE.
4. The Director, Institute of Natural Resources, MBDA.
5. DPD, MegARISE, MBDA.
6. CPMs, MegARISE, MBDA.

(Gunanka D.B., IFS)
Additional Project Director
MegLIFE & MegARISE
Meghalaya Basin Development Authority

(Annexure 1)

Eight-Day Training Module on Springshed Management in Meghalaya

Day 1: Needs Assessment and Spring Inventory

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	9:30-10:00 AM	Registration			
2	10:00-10:15 AM	Breakfast			
3	10:15-10:30 AM	Introduction			
4	10:30-11:30 AM	Introduction, Pre-Training Assessment, Training Expectations	60	MLSC	Classroom
5	11:30-12:30 PM	Paradigm shift from conventional watershed approach to springshed approach	60	ACWADAM/PSI	Classroom
6	12:30-01:30 PM	Importance of Participatory Rural Appraisal (PRA Tools) in Springshed Management	60	CHIRAG/PRASARI	Classroom/Field
7	01:30-02:30 PM	Lunch			
8	02:30-03:30 PM	Importance and tools of Focused Group Discussions (FGDs) in Springshed Management	60	CHIRAG/PRASARI	Classroom/Field
9	03:30-04:00 PM	Spring Inventory	30	ACWADAM/PSI	Classroom/Field
10	04:00-04:30 PM	Tea			
11	04:30-05:30 PM	Identification of critical spring: The outcome of Spring Inventory and FGDs	60	ACWADAM/PSI	Classroom/Field

Day 2: Institutional and Monitoring Mechanism

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	10:00-10:15 AM	Breakfast			
2	10:15-11:00 AM	Recap			
3	11:00-12:00 Noon	Institutions for spring governance: Water User Group	60	CHIRAG/PRASARI	Classroom
4	12:00-01:00 PM	Spring Discharge Measurement Methods and its Monitoring	45	ACWADAM/PSI	Classroom/Field
5	01:00-02:00 PM	Lunch			
6	02:00-03:00 PM	An Introduction to Spring Water Quality and its Monitoring	60	ACWADAM/PSI	Classroom/Field
7	03:00-03:30 PM	Rainfall Measurement and its Monitoring	30	ACWADAM/PSI	Classroom/Field
8	03:30-04:00 PM	Community based Springshed Monitoring	30	CHIRAG/PRASARI	Classroom/Field
9	04:00-04:30 PM	Tea			

Day 3: Field Visit and Hands on Experience

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	8:00 AM	Departure			
2	Full Day	PRA Tools	**Full Day**	**MLSC**	**Field**
3		Focused Group Discussion			
4		Spring Inventory: Spring Location, Discharge, Water Quality, Socio-economic Information, Spring Ownership, Dependency, Distance, Broad Geology, Land Use Land Cover Information			
5		Identification of critical spring: The outcome of Spring Inventory and FGDs			
6		Formation of or Interaction with the Water User Group or any concerned Institution			

Day 4: Water Budgeting and Spring Water Quality

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	10:00-10:30 AM	Breakfast			
2	10:30-11:00 AM	Recap			

3	11:00-12:00 Noon	Household Survey: Method and Execution	60	ACWADAM/PSI	Classroom/Field
4	12:00-01:30 PM	Household Survey for the assessment of gap between daily water demand and supply (Consumption against Availability)	90	CHIRAG/PRASARI	Classroom
5	01:30-02:30 PM	Lunch			
6	02:30-03:15 PM	Management of daily water demands: Irrigation, domestic and drinking	45	PSI	Classroom/Field
7	03:15-04:15 PM	Importance of drinking water quality parameters	60	ACWADAM/PSI	Classroom
8	04:15-05:00 PM	In-Situ Water Quality	45	ACWADAM/PSI	Classroom
9	05:00-05:30 PM	Tea			

Day 5: Hydrogeology and its Significance in Springshed

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	10:00-10:30 AM	Breakfast			
2	10:30-11:00 AM	Recap			
3	11:00-12:00 Noon	Concept of Springshed and its management	60	ACWADAM/PSI	Classroom
4	12:00-01:30 PM	Introduction to Geology and Hydrogeology: Earth's Internal Structure, Types of Rocks and Structures and Textures in the rock	90	ACWADAM/PSI	Classroom/Field
5	01:30-02:30 PM	Lunch			
6	02:30-03:30 PM	Introduction to Springs and its types	60	ACWADAM/PSI	Classroom/Field
7	03:30-05:30 PM	Significance of Field Hydrogeological Mapping: I) Rock Attitudes: Introduction to Strike and Dip Direction II) Field Hydrogeological Mapping III) Analysis and Interpretation of field collected data: Identification of Potential Recharge Area and introduction to the conceptual hydrogeological layout of the critical spring	120	ACWADAM/PSI	Classroom/Field
8	5:30 PM	Tea			

Day 6: Field Visit and Hands on Experience

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	8:00 AM	Departure			
2		Very short community meeting to discuss the criticality of the spring	Full Day	MLSC	Field
3		Field based hydrogeological mapping: Use of handling the Brunton Compass to measure the strike and dip directions of the rock.			
4		Identification of the potential recharge area of the spring			
5		Field Sketch of Springshed			
6		Measurement of slope of land in recharge area			
7		Identification of soil type and vegetation			
8		Proposing the appropriate recharge interventions in the identified recharge area based on the present land use land cover and its ownership			

Day 7: Data Collation, Analysis, Interpretation and Estimating Recharge Measures

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	10:00-10:30 AM	Breakfast			
2	10:30-01:30 PM	Data Entry of Field collected Data in Excel & plotting it on the Google Earth Delineating springsheds and their potential recharge areas on Google Earth Introduction to the concept of cross section of springs	180	ACWADAM/PSI	Classroom

3	1:30-2:00 PM	Lunch			
4	02:00-03:00 PM	Recharge Measures and their controlling factors: LULC, Land Ownership, Soli Type, Slope, etc	60	PSI/CHIRAG/PRASARI	Classroom
5	03:00-03:45 PM	Slope measurement techniques	45	PSI/CHIRAG/PRASARI	Classroom
6	03:45-05:15 PM	Types of Recharge Interventions and their	90	PSI/CHIRAG/PRASARI	Classroom
7	05:15-06:00 PM	Guidelines for the execution of recharge measures	45	PSI/CHIRAG/PRASARI	Classroom
8	6:00 PM	Tea			

Day 8: Developing the DTR and Impact Assessment

S.No.	Session Time	Topic	Time (mins)	Resource Organisation	Mode of Delivery
1	10:00-10:15 AM	Breakfast			
2	10:15-11:00 AM	Developing Springshed Governance Protocols and Benefit Sharing or Payment for Forest Ecosystem Services	45	CHIRAG/PRASARI	Classroom
3	11:00-02:00 PM	Outline and Content of DTR	180	MLSC	Classroom
4	02:00-02:30 PM	Lunch			
5	02:30-03:30 PM	Execution of DTR and its interpretation	60	MLSC	Classroom
6	03:30-04:30 PM	Introduction and Methods Impact Assessment: An outcome of the Monitoring Mechanism	60	ACWADAM/PSI	Classroom
7	04:30-05:30 PM	Post Training Assessment, Feedback and Way Forward	60	MLSC	Classroom
8	5:30 PM	Tea			

List of Participants for Springshed Management Training (Annexure 2)

Sl No	District	Block	Name of Staff	Designation	Venue
1	Eastern West Khasi Hills	Mairang	Melampynshai Nongrum	Field Engineer	MBDA Conference Hall, Nongrim Hills
2	South West Khasi Hills	Mawkyrwat	Freddy John Marwein	Field Engineer	
3			Sixstar Suchiang	Field Engineer	
4		DPMU	Annecia Lyngdoh	PA, GIS	
5	Ri Bhoi	Umsning	Lapjingpyndap Suting	Field Engineer	
6		Umling	Tngenbora Lyngdoh Nongrang	Field Engineer	
7		DPMU	Jane Mary	PA, GIS	
8		DPMU	Ibansara Wanniang	PA GIS	
9	West Jaintia Hills	Thadlaskein	Augustine Ryngkhlem	Field Engineer	
10		Laskein	Francis Pohshna	Field Engineer	
11		DPMU	Lutmon Sari	PA, GIS	
12	East Jaintia Hills	Saipung	Winifred A Passah	Field Engineer	
13		DPMU	Fedrick Lawai	PA, GIS	
14	East Garo Hills	Songsak	Tueshva Ch Marak	Field Engineer	
15		Samanda	Matgrik C Marak	Field Engineer	
16		Rongjeng	Nagarbirth S marak	Field Engineer	
17		DPMU	Grace Momin	PA, GIS	
18		DPMU	Ibandarishisha Synteng	PA, GIS	
19		DPMU	Ibitmeki Chadong	PA, GIS	
20		DPMU	Philinsha Mawlong	PA, GIS	
21		DPMU	Poidakaruhi Shangpung	PA, GIS	
22	North Garo Hills	Resubelpara	Lingsacca Ch Momin	Field Engineer	
23		Kharkutta	Tera Tarime M Mrak	Field Engineer	
24		DPMU	Aijingkmen Lyngdoh	PA, GIS	
25		DPMU	Theophil Sangma	PA, GIS	
26		DPMU	Jecinta Kharlyngdoh	PA, GIS	
27	South West Garo Hills	Betasing	Bishal Rabha	Field Engineer	
28		ZikZak	Sainiborn S Marak	Field Engineer	
29		DPMU	Chegamchi D Sangma	PA, GIS	
30		DPMU	Lenora B. Marak	PA, GIS	
31	SPMU		Henafiducia Bareh	Manager	
32			Gaurav Singh	Technical Specialist, GIS	
33			John Wanniang	Sr. Manager	
34			Salnang Koksi Sangma	Sr. Manager	
35			Kmenlang Kharbuli Marak	Apprentice	
36			Rina Liza Nongkynrih	Apprentice	
37			Tatara Susime R. Marak	Apprentice	
38	DPMU EKH		Baniaineh Khongmalai	PA, GIS	
39			Holda Thabah	Field Engineer	
40	DPMU WGH		Lopez Ch Marak	Asst. Manager	

List of Participants for Springshed Management Training (Annexure 2)

Sl No	District	Block	Name of Staff	Designation	Venue
1	East Khasi Hills	Mawkynrew	Victor Nongrum	Field Engineer	MegARISE Conference Hall, Springside, Nongthymmai Jingikieng
2			Emlangme Pajuh	Field Engineer	
3		Mawryngkneng	Olivia Makri	Field Engineer	
4	West Garo Hills	Tikrikilla	Premadona D marak	Field Engineer	
5		Rongram	Saljring K Marak	Field Engineer	
6			Gamjin M Momin	Field Engineer	
7		Gambegre	Chenim Ryan J Sangma	Field Engineer	
8		Dalu	Assanio Zidane N Sangma	Field Engineer	
9		Salsella	Junjun Ch Marak	Field Engineer	
10		DPMU	Suhsiengmon Lating	Asst. Manager, GIS	
11		DPMU	Julibel Lyngdoh	PA, GIS	
12		DPMU	Richbert Pyndaplang	PA GIS	
13		DPMU	Mattibakordor Giri	PA GIS,	
14		DPMU	Labetnylla Kharlyngdoh	PA GIS	
15		DPMU	Asha Bakmen Kharbani	PA GIS	
16	South Garo Hills	Baghmara	Tangrak A Sangma	Field Engineer	
17		Gasuapara	Chegen Ch Sangma	Field Engineer	
18		Rongra	Griksang S Marak	Field Engineer	
19			Klinsman D Shira	Field Engineer	
20		Chokpot	Sama Orlando N Marak	Field Engineer	
21		DPMU	Baniatyllilang Nongsiej	PA, GIS	
22		DPMU	Naphinangroi Suting	PA, GIS	
23		DPMU	Eyolis Marngar	PA, GIS	
24		DPMU	Ecclecia Lyngdoh	PA, GIS	
25		DPMU	Pinku K Marak	PA GIS	
26	SPMU		Shngainlang Langstang	Field Engineer	
27			Cassandra Odami B Rynjah	PA GIS	
28			Jillianda Kharjana	Manager	
29			Lawanhun Khongshun	Apprentice	
30			Billykim T. Sangma	Apprentice	
31	Water Team , INR		Effie Kharjana	Technical Assistant	
32			Bandarihun Kharlor	Asst. Manager	
33			Justin Pathaw	Field Engineer	
34			Reynold Marwein	Asst. Manager	
35	Representative from Soil & Water Conservation Department				
36	Representative from Soil & Water Conservation Department				
37	Representative from State Rural Employment Society				
38	Representative from State Rural Employment Society				
39	Representative from Water Resource Department				
40	Representative from Water Resource Department				