WORKSHOP REPORT

WORKSHOP ON MARVELLOUS MANGROVES CURRICULUM IN BANGLADESH



29-31 JULY 2015 | WEDNESDAY - FRIDAY BRIDGE TRAINING CENTRE | BOYRA, KHULNA, BANGLADESH







WORKSHOP ON MARVELLOUS MANGROVES CURRICULUM IN BANGLADESH

29-31 JULY 2015 | Wednesday - Friday BRIDGE Training Centre | Boyra, Khulna, Bangladesh

REPORT PREPARATION

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NOTE TAKING

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РНОТО

Utsargo Roy Probir Palit Hasan Mehedi

FACILITATED BY

Gobinda Kumar Biswas, Core Trainer Goutam Kumar Sarder, Core Trainer Hasan Mehedi, Chief Executive, CLEAN Martin A. Keeley, Executive Director, MREA Mrinal Kanti Mondal, Core Trainer Rajib Chandra Bachhar, Core Trainer Rezaul Karim Zitu, Education Expert, CLEAN Rohini Baran Roy, Core Trainer Swapna Rani Biswas, Core Trainer Utsargo Roy, IT Expert, CLEAN

SUPPORTED BY



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BACKGROUND

On the consequence of the last two workshops MAP and CLEAN organize their third consecutive workshop about MM Curriculum for the selected school teachers and students. In a very rainy morning with all day, the third workshop on "Marvellous Mangroves in Bangladesh" organized with active participation of teachers and students from six schools organized in the BRIDGE training center, Boyra Khulna. Before the workshop, six teachers from the schools were awarded as Core Trainer considering their performances in school level mangrove education, facilitating mangrove clubs and skills to conduct trainings and workshops on Marvellous Mangroves Curriculum.

Considering the performances, some participants has been changed and substituted by new participants with a view of expanding knowledge and skills to other teachers and students towards a complete set of human resources in each school to run mangrove education.

CLEAN instructed every selected school that this time every school send two of their science/enthusiastic & science fascinated teachers [one male and one female] who already engaged on Mangrove Club and also two students from Mangrove Club. According to organizers demand every school proposed one teacher and one student who already participated last workshop. Organizer did this thing because they wanted to check their core team who will play the vital role next time to train other people and mobilize the program. Most of the schools send their Lead facilitator of Mangrove Club (who already experienced) and the facilitator of Mangrove Club. The main reason of the selection process was carried out the workshop by the participants, CLEAN and MAP worked as their supporting hand for a successful workshop. The Participants were moderate and facilitate all the session. Martin A. Keelley, Hasan Mehedi & Rezaul Karim Zitu helped them a little-bit to complete the activities.

DAY1

29 JULY 2015, WEDNESDAY

Within 9.00 AM completing all the formalities (i.e. registration) participants and guests took their own seat carried on the program. All participants and guests were serious about the time schedule and followed the schedule. CLEAN chief Executive Hasasn

Mehedi formed some sub committees among the participants and set some responsibilities each to committee. He distributed the into food. time participant cultural & management, recreational and reporting committee.

According to our schedule we started the workshop inauguration session. Mr. Rohini



Boron Roy, teacher TA Faruk School, Mongla came out to the stage and gave warmest greetings



to all. In his welcome speech by Mr. Roy said about the workshop, CLEAN and MAP very shortly from his last workshop experienced. He introduced the guests with the participants of the workshop. After his very short speech he invited Mr. Hasan Mehedi, Chief executive CLEAN to say



some wards.

Mr. Mehedi described about the MM curriculum mission and vision very shortly. He also told the objectives of the workshop. He was not taking too much time to complete his speech. After completed his speech Mr. Mehedi took permission from the facilitator to play a documentary about last year workshop. It was an amazing thing for the participants. The last workshop attended

students figured out them on the video. And the first timer got idea what would be happen next 2-3 days. So everyone felt interest to do better things.

After Mr. Mehedi's short introductory speech and documentary show the facilitator invited Mr. Martin A. Keeley, Education Director and Representative of MAP. At first Mr. Keeley gave warmest thanks and greetings to all guests, participants and CLEAN members. He said some wards about his MM curriculum activities around the world for the new participants. He also made his speech shorter.



After Mr. Keeley's speech the facilitator requested Mr. Mehedi to facilitate the introducing session. As per last workshop Mr. Mehedi requested all the teachers to adopt a student (student must be from other school, not from his/her school) as a parents for next 2-3 days. And every male teacher



should adopt a girl and every female teacher should adopt a boy. After forming their group (2 people) Mr. Mehedi requested them seat beside with your partner and allowed them some time to know each other. After that one partner gave another partner introduction not his own.

After introductory session the facilitator played with all participants the WATER CYCLE RAP. Everyone (older and newer

participants) did it nicely. The facilitator said it is the warm-up activities for our next 2 days program. Then he called tea break.

After the tea break all participants took their position. The facilitator invited Mr. Mrinal Kanti Roy, Assistant teacher, Abul Hossain Girls School, Dacope to do the Salty Currents activity. Mr. Roy took 2 assistant (participating students - one from experienced and another one from new). They





did it very nicely. Everyone felt lots of interest about the activities. Then the facilitator asked Mr. Rezaul Karim Zitu to do the Cyclone Barrier activities. Mr. Zitu at first described the importance of mangrove, its ecology and benefits. He also touched how mangrove protects nature and environment in coastal area from mighty disaster. Then he did it with assistance of all students. After the activities all participants said we read it and forget it, but this time we practically

dramatically did it so we never forget the benefits of mangrove in our daily life. Mr. Roy the facilitator requested Mr. Keeley and Mr. Zitu to facilitate the next session. So they invited everyone to participate the Mangrove Food chain and Web activity. Mr. Zitu invited one experienced teacher who played this activities last workshop. It was an open call. Mr. Rajib Kumar Bachar showed his interest to play the activities. He first played the mangrove food web clue game then played the food chain. He also



described how every element of food chain is interrelated with each other. If ones felt everyone goes down. After his activities the youngest member of food committee noticed everyone that the lunch was ready, so we can moved and took our meal.



After lunch break Mr. Zitu and Mr. Keeley invited everyone Feather Feature activity. Mr. Keeley firstly described the how feather is needed, what's its benefit, why birds only have feather/wing. Then he gave wing feather and magnifying lens to everyone to check the features of feather. He also mentioned the feather oiling by birds and its importance. Then he gave the chest feather to all check it and find the differences. He described why it is different and how it works & needed for birds. After his checked out

feather feature he requested Mr. Akbar Hossain to say the history of feather using in Bangladesh. Mr. Akbar shortly described the history of utilize the feather in Bangladesh. He also said about

the history of pen. He described about the quill pen. He told the story of secretary bird. Then the organizer arranged the ink and feather pen for write-up, drawing etc. Every participant said it's an amazing things. The elder teacher who already used bamboo for writing as their childhood totally overwhelmed, other younger guys were amused.

After the evening tea break the facilitator Mr. Roy again took his facilitation charge and



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invited Mr. Gobinda Kumar Biswas, Assistant Teacher, Laudob Badamtala High School to do the Fill the Bill activity. He did it very nicely. At first he briefed about the different types of bills of bird then he said how it works. Then he called participants and gave them a bird name and said them to use the materials like as your name bird bill and collect the exact food from the menu. After his nice presentation Mr. Roy invited Ms. Swapna Rani Biswas to do the Birds Silhouettes.

She gave some clues to play the activity and everyone got it very quickly and did it nicely.

After the Ms. Swapna's activity Mr. Rroy declared "it is the time to creative hour. You can do any things what's your mind wants like- writing song, story or rap, poem (everything would be Sundarbans related). If anybody feeling interest in drawing please draw the picture of mangroves." Mr. Utsargo, research person Clean said, "We want to play the story of Bonobibi' tomorrow, so I need some volunteer for this drama, who are interested?" Some students and two teachers showed their interest to play the story.

After the creative hour activity Mr. Roy declared the closing of the first day.

30 JULY 2015, THURSDAY

At very early morning of 2nd day all the participants gathered in the training room. Every group was very much sincere about their responsibility. Beginning of second day Mr. Roy invited Mr. Zitu to run the session. Mr. Zitu and Mr. Keeley first described

the bioaccumulation. about Martin gave some examples of bioaccumulation in Canada and other areas of world. Mr. Zitu also added some example on Bangladesh context. He touched the DDT and pesticides & insecticides impact and its bioaccumulation factor. After that they invited all the participants to outside of the training room. They were very much lucky because that day was

DAY2



very much shiny on a rainy season (because last few days everyone faced the cats and dogs raining). Martin described them which category of animals he needed and how much needed for each category to run the activity of Deadly links. He also demonstrated them each categories movement and way of taking food, also the rules of the game. Then everyone was participated



this activity with great interest and full of enjoyment. I believed every one can memorized the bioaccumulation, said by a new participating teacher.



Completed the deadly links we came back again our training room. Mr. Roy announced we have some change in our schedule. One of our activities under Birds migration changed and goes to evening session. Then Mr. Zitu requested every teachers and students to use their magnifying glass to identify the mangrove species (using leaves, roots [phenumetaphores, rhizophores], fruits, flowers). He invited experienced participants (one teacher and one student) to identify one species using the leaf and also requested

them to identify which category of mangrove (red, black, white/gray) it is. The experienced guys asked permission from the moderator to use the Curriculum identification page to identify it. The moderator granted their permission and they did well. Then the facilitator invited the new-comers one by one to identify the tree species using the identifying sheets. 75% of participants went to the right direction. The least 25% ensured that next day they will identify correctly because they got the fresh samples in Sundarbans. End of identification activity the youngest member of food committee invited all for tea.

After tea break facilitator requested all the participants to go outside to play the Migration Headache. At first Mr. Zitu shortly described about the migration and birds migration behavior: why they migrate, what is their way of migration, which obstacles and beneficiaries they got on their way of migration. Then he requested Mr. Goutam Kumar Sarker the assistant teacher Laudob Badamtola High School, Dacope to run this game. He at first said about the game rules.



And he selected some assistance to help him. After the selection process other participants attend the activity as migratory birds. With a full of running and moving they feel the feelings of migratory birds. After the activity one lady teacher declared from now to until my death I will



protest to catch, selling and eating migratory birds and also works on grow awareness to protect migratory birds from greedy people. She declared it, to feel the migration headache of a bird. Other teacher appreciated her oath and said we would join with you.

After a nice lesson learned activity, again on facilitation of Mr. Zitu and Mr. Keeley, everybody were participated the Pollution





soup activity. At first Mr. Zitu described what pollution is and what pollution soup is. He touched our nonsense activities and its impact on our environment. He gave examples of Buriganga River, Dhaka. How people make it most polluted river. Everybody dump their wastes (household,



industrials, sewerage, etc.) and it turns into polluted water body. After his nice explanation, about the activity he invited Mr. Sarker to run it. So, Mr. Sarker and his assistance changed a clear water

body into dark, odorous & dirty water body only dumped different types of wastes. So everyone felt their inhuman thought and activities impact on environment. Then Mr. Zitu said if we treated it before dumped (just mixing before our water body) what will be happened. After his lesson the participants did it and they agreed with him.

After pollution soup activity Mr. Zitu requested the food committee to change their midday break schedule and made late of 1 hour, because he need some time to do the oil spill cleanup activity. The food

committed gave him half an hour extra time. "Oil Spill CLEAN-up experiment: mangroves" activity gave lesson how we locally take initiative against oil spill and prevent from spilling lot of areas. Which common and easiest materials would be better for controlling this type of event? Children must keep away from oil spill and ensure your own protection and safety. Because those oil are so much toxic.



After lunch break Mr. Keeley and Mr. Zitu set up all the Microscopes and divided all participants into four groups. They used some collected water samples from coastal areas with full of microorganisms to make the lesson interesting to all participants. They made the slide (temporary slide) and put it on the microscope and focused the light and try to find out the micro-organisms. The new participant students watched the microscope first time so they felt very much excitement,

again the older ones also excited because they got access to play with it again. Because using even watching this equipment's for some rural school students is a dream. They not only catch their dream but also practiced with it. They were trying to find out micro-organisms and when they found something moving on their slide they were excited and called Mr. Martin and Mr. Zitu what is this. They were trying to explain what this was. They also drew the images which they observed on the microscope.

After observing the microorganisms Zitu invited Mr. Mehedi to run the Migration Board game. Mr. Mehedi at first described about the rules. Then 6 participants were participated the game. It's looked like a snake-ladder board game. Here the entire player played the role of migratory birds whose were travelling from Siberia to Sundarban, Bangladesh. Every step of their movement they faced some problems (climatic hazards, obstacles, lack of food, wrong way, hunters, airplanes







etc.); also got some benefits like as food and water collection point for recharging their energy level for flying, and flying guideline. So this game was very much crucial for the young generation to understand the Birds migration and migration headache.

After tea break the participants played the "Bonobibi: the legendary story about Sundarbans". The played it very dramatically. Everyone enjoyed this play. After every session (ending time) the cultural group entertained everyone by telling jokes, sang the song. We heard song from the teachers, heard instrumental tone using the vocal cord only from a multitalented student of T.A. faruk School, Mogla. Everyone loved it. Some teacher students draw picture and wrote poem about Sundarbans, they also showed their creative works to all.

After the creative hour activity Mr. Mehedi declared the closing of the day.

DAY3

30 JULY 2015, FRIDAY

The team started journey from Khulna to the Sundarbans. First they used a bus to go Mongla port. On Mongla a boat was ready to pick us. After we raid the boat the

boatmen sailed the boat towards Karamjal wildlife sanctuary spot. Completing all the forest office formalities we entered into the sanctuary part of Karamjal.

We did some activities here like as beach/river bank clean up, sound mapping, giant footprints, identify the mangrove species (flora and small creatures). After activities completing we all visited the deer and crocodile breading ground of Karamjal



sanctuary. On the way back to Mongla the organizer distributed the certificates among all participants to participate in the workshop. Martin also distributed the school participating certificate and some materials for school.

We were taking our midday meal on Mongla Bazar on the way back to Khulan. And also gave see off to T.A. Faruk School. Then we started our journey by bus towards Khulna. In Khulna we see off rest of schools.



Workshop on Marvellous Mangroves Curriculum BRIDGE Training Centre, Boyra, Khulna | 29-31 July 2015, Thursday-Saturday

WORKSHOP SCHEDULE

29 July 2015, Wednesday | BRIDGE Training Centre, Boyra, Khulna

Time	Activity	Responsible Person
08:00 - 08:30	Breakfast	
08:30 - 09:00	Registration	
09:00 - 10:00	 Inauguration Self-Introduction Development Path of MM Curriculum in Bangladesh Review: Mangrove Club Activities at School Level Video Presentation on MM Curriculum Workshop 2014 Adopt an Assistant (every teacher will select a student from another school as his assistant, through a game) Group Formation (2 teachers, 2 students and 2 other participants in each group; total 6 groups). Each of the groups has a name and responsibility like Reporting, Time Management, Food Management and music) 	 Rezaul Karim Zitu Martin A. Keeley Hasan Mehedi Ranjit Swain Rohini Baran Ray Mrinal Kanti Mondal 6 Teachers from 6 Schools
10:00 - 10:15	Activity: Water Cycle Rap	Rohini Baran RayRezaul Karim Zitu
10:15 - 10:45	Salty Currents	Mrinal Kanti MondalRezaul Karim Zitu
10:45 - 11:00	Cyclone Barrier	Rezaul Karim ZituMartin A. Keeley
11:00 - 11:30	Tea Break	
11:30 - 13:00	 Mangrove Food Chain and Web Mangrove Food Web: Clues Mangrove Food Chain: Rajib Kumar Bachhar 	Rezaul Karim ZituMartin A. Keeley
13:00 - 14:00	Midday Break	
14:00 - 15:30	 How Birds' Feathers Work Feather Features (Understanding feather structure, how it works etc. by using magnifying lenses) Feather Pen (revealing history of pen in Bangladesh) 	 Rezaul Karim Zitu Martin A. Keeley Hasan Mehedi
15:30 - 16:00	Tea break	



Time	Activity	Responsible Person
16:00 - 16:45	Fill the Bill	Gobinda Kumar BiswasRezaul Karim Zitu
16:45 - 17:30	Birds Silhouettes [may be]	Swapna Rani BiswasRezaul Karim Zitu
17:30 - 19:00	 Creative Hour Group Art on Flip Chart (majorly teachers, but some students may join there. 4 Groups, at least 3 members in each group) Poem or Story Writing on Mangroves (for all participants) Rehearsal on Bonobibi's Story (students, but some teachers may join there. At least 8 Students) 	 Utsargo Roy
20:30 - 21:30	Dinner	

30 July 2015, Thursday | BRIDGE Training Centre, Boyra, Khulna

Time	Activity	Responsible Person
08:00 - 08:30	Breakfast	
09:00 - 09:45	Deadly links/Bio-Accumulation	Martin A. Keeley
09:45 - 11:00	 Birds Migration Migration Headache: Goutam Kumar Sarker Migration Board Game: Zitu and Mehedi 	Rezaul Karim Zitu
11:00 - 11:30	Tea Break	
11:30 - 13:00	 Mangrove Pollution Pollution Soup Oil Spillage Clean-Up 	Rezaul Karim ZituMartin A. Keeley
13:00 - 14:00	Midday Break	
14:00 - 16:00	 Mangrove Species Identification Identification of Mangrove Species by using magnifying glasses (leaves with branches, flowers, seeds and propagules) Identification of Panktonic Species by using microscopes 	 Rezaul Karim Zitu Martin A. Keeley
16:00 - 16:30	Tea Break	
16:30 - 17:30	 Creative Hour Recitation of Poem or Story presentation Group Art Presentation Play on Bonobibi Story 	 Utsargo Roy
20:30-21:30	Dinner	

31 July 2015, Friday | Karamjal Tourist Spot, the Sundarbans



Time	Activity	Responsibility
07:00 - 07:30	Breakfast	
07:30	Start to Karamjal Tourist Spot, the Sundarbans	 Hasan Mehedi
11:00 - 15:00	 Field Activities Beach/River Bank Clean Up Sound Mapping Giant Footprints Eaters of Mangrove Identifying Mangrove Species (plants and small creatures) 	 Martin A. Keeley Rezaul Karim Zitu Hasan Mehedi
15:00 - 16:00	Certificate and Materials Distribution	Martin KeeleyHasan MehediRanjit Swain
16:00 - 18:00	See off	

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Workshop on Marvellous Mangroves Curriculum BRIDGE Training Centre, Boyra, Khulna | 29-31 July 2015, Thursday-Saturday

SL #	Name	Position	Institution
1.	Tripti Bain	Student, Class: IX	Abul Hossain Girls High School, Chalna, Dacope, Khulna
2.	Rabeya Sultana Tamanna	Student, Class: VII	Abul Hossain Girls High School, Chalna, Dacope, Khulna
3.	Rajib Kumar Bachhar	Assistant Headmaster, Science	Channir Chak LC Collegiate School, Hatiardanga, Koyra, Khulna
4.	Chitta Ranjan Biswas	Assistant Teacher, Science	Channir Chak LC Collegiate School, Hatiardanga, Koyra, Khulna
5.	Naimur Rahman	Student, Class: IX	Channir Chak LC Collegiate School, Hatiardanga, Koyra, Khulna
6.	Nazmin Nahar Kanta	Student, Class: VII	Channir Chak LC Collegiate School, Hatiardanga, Koyra, Khulna
7.	Swapna Rani Biswas	Assistant Teacher, General Science	Comrade Ratan Sen Collegiate Girls School, Ajugara, Rupsa, Khulna
8.	Laxman Kumar Saha	Assistant Teacher, English Literature	Comrade Ratan Sen Collegiate Girls School, Ajugara, Rupsa, Khulna
9.	Naima Jarin Mim	Student, Class: VII	Comrade Ratan Sen Collegiate Girls School, Ajugara, Rupsa, Khulna
10.	Fahrin Siddiqa Toba	Student, Class-VI	Comrade Ratan Sen Collegiate Girls School, Ajugara, Rupsa, Khulna
11.	Goutam Kumar Sarder	Assistant Teacher, Science Teacher	Laudob-Badamtala High School, Laudob, Dacope, Khulna
12.	Tarun Mondal	Assistant Teacher, Agriculture Science	Laudob-Badamtala High School, Laudob, Dacope, Khulna
13.	Anik Sarkar	Student, Class: VIII	Laudob-Badamtala High School, Laudob, Dacope, Khulna
14.	Pronoti Mridha	Student, Class: IX	Laudob-Badamtala High School, Laudob, Dacope, Khulna
15.	Gobinda Kumar Biswas	Assistant Teacher, General Science	Surkhali High School, Surkhali, Batiaghata, Khulna
16.	Swajal Kanti Mondal	Assistant Teacher, Literature	Surkhali High School, Surkhali, Batiaghata, Khulna
17.	Brishti Bhadra	Class: IX	Surkhali High School, Surkhali, Batiaghata, Khulna
18.	Bheem Adhikary	Student, Class: VIII	Surkhali High School, Surkhali, Batiaghata, Khulna
19.	Rohini Baran Ray	Assistant Teacher, Science and Math	TA Faruk School and College, Kumarkhali, Mongla, Bagerhat

WORKSHOP PARTICIPANTS



SL #	Name	Position	Institution
20.	Rashida Akter	Assistant Teacher, Science, Science and Math	TA Faruk School and College, Kumarkhali, Mongla, Bagerhat
21.	Jasmine Akter	Student, Class: IX	TA Faruk School and College, Kumarkhali, Mongla, Bagerhat
22.	Riaz Sheikh	Student, Class: VII	TA Faruk School and College, Kumarkhali, Mongla, Bagerhat
23.	Ranjit Swain	Director	Chale Chalo, Niladri Vihar, Bhubaneswar, Odisha, India
24.	Sushovan Dhar		All India Forest Workers Federation, Kolkata, India
25.	Akbar Hossain Wriddha	Resource Facilitator	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh
26.	Shuborna Islam Disa	Finance & Admin Officer	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh
27.	Rezaul Karim Zitu	Education Coordinator	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh
28.	Utsargo Roy	IT Specialist	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh
29.	Probir Palit	Video Documentation	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh
30.	Hasan Mehedi	Chief Executive	CLEAN, Azizer Moor, Boyra, Khulna, Bangladesh

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