

MULTIPURPOSE DISASTER SHELTER PROJECT (MDSP)
Monitoring & Evaluation (M&E) Consultant

FIELD VISIT REPORT

1. Period of Visit : 28-29 March 2018
2. Location of Visit : Cox's Bazar District.
3. Participant of visit : Engr. A.H.M. Mahbubur Rahman, TL, M&E Consultant
Dr. Md. Barkat Ullah, Environmental Specialist, M&E Consultant
4. Officials met during Visit :

LGED OFFICIALS

- Mr. Mirza Md. Iftakhar Ali, Executive Engineer, LGED, Cox's Bazar
- Mr. Md. Mohsin, Upazila Engineer, LGED, Kutubdia, Cox's Bazar

D&S CONSULTANTS

- Mr. A.K.M. Rafiqul Islam, RRE, Chittagong Region,
- Mr. A.K.M. Sayed Hossain, FRE, Cox's Bazar,
- Mr. Md. Omed Hasan, Field Supervisor, Moheshkhali, Cox's Bazar,

CONTRACTORS' PERSONNEL- M/S. WAHID CONSTRUCTION LTD.

- Mr. Md. Shoriful Islam, Project Manager,
- Mr. Md. Shahadat Hossain, Deputy Project Manager,
- Mr. Md. Mafizur Rahman, Assistant Project Manager,
- Mr. Md. Mozaffer Hossain, Material Engineer,
- Mr. Md. Abdul Kader, Site Engineer,
- Mr. Md. Sanowar Hossain, Site Engineer,
- Mr. Md. Mohiuddin Ahmed, Project Engineer,
- Mr. Anower Hossain Bhuyan, Project Engineer,
- Mr. Khurshed Alam, Project Engineer,
- Mr. Sarwar Hossain, Site Engineer,
- Mr. Almas Kamrul Hasan, Site Engineer,
- Mr. Tojammel Hossain Robin, Site Engineer,
- Mr. Nahiduzzaman, Site Engineer.

SMC

- Mr. Altab Hossain, Assistant Teacher, Baingakata GPS, Kutubdia, Cox's Bazar.

5. Activities of Visit : **Monitoring of the Field Activities of MDSP**

6. Sites visited: The following Shelter sites were visited: -

Package no. LGED/MDSP/COX/14-15/NW-04:

- **COP-336:** Purbo Dhurung GPS, Kutubdia, Cox's Bazar.
- **COP-456:** Char Dhorung GPS, Kutubdia, Cox's Bazar.
- **COP-451:** Baingakata GPS, Kutubdia, Cox's Bazar.
- **COP-344:** Munshir Deil GPS, Maheshkhali, Cox's Bazar.
- **COP-345:** Fakirkata GPS, Maheshkhali, Cox's Bazar.
- **COP-180:** Chaliatali GPS, Maheshkhali, Cox's Bazar.

7. Findings and Observations of the M&E Consultants:

A. General:

The M&E Consultants undertake the field visits as part of its obligation to perform the following:

- a) Overall monitoring and evaluation of project implementation activities;
- b) Carry out independent monitoring of project progress, inputs, outputs and outcomes and impact of project interventions at different point time;
- c) Supervise compliance of social and environmental safeguards;
- d) Propose recommendations for appropriate corrective actions, if any.

B. Physical works:

The M&E Consultants visited the following shelter sites:

Construction of New Shelters including Shelter Connecting Road

The M&E team visited 6 nos. under construction new shelter sites of MDSP in Kutubdia and Maheshkhali Upazilas of Cox's bazar district.

- The reported physical progress of the construction of the 6 new shelter works are as follows: **COP-336: 18%; COP-456: 19%; COP-451: 8.5%; COP-344: 20%, COP-345: 20% and COP-180: 13%.**
- **Site selection:** Selection of all sites for construction of new shelters has been very good as these are indeed located in cyclone vulnerable remote places of the islands.
- **Staff Mobilization by the Contractor:** M/S. Wahid Construction Limited has made fairly good mobilization of field personnel. Project Manager, Deputy Project Manager, Assistant Project Manager, Site Engineer, Material Engineer and others have been mobilized. Community Organizers to supervise and ensure implementation of environmental and social management plans are yet to be mobilized. This should be done immediately.
- **Construction Schedule:** No construction schedule was available at any working site. The construction schedule is an essential instrument to monitor construction activity. The schedule clearly depicts status of progress against target at any point of time. Different construction task elements need to be shown in a diagram that indicates the proposed start and completion dates. Monitoring of the actual implementation of the various work elements against targets should be done. If necessary, the schedules may periodically be updated and followed up.

- **Site plan:** Site plans showing the demarcated storage yard of construction materials, labour sheds, tube wells and toilets for construction labours, re-bar fabrication yard, waste disposal areas etc. have not been made for any working site as yet. A Site Plan is an essential instrument for efficient performance of construction works particularly in respect of ensuring environmental as well as social safeguard measures prior to and during construction activities. This should be prepared for each individual shelter site.
- The quality of construction materials such as MS Rod, stone chips, coarse sand etc. procured at sites appears good. The quality of procured bricks however, does not meet the standard specification. Bricks of proper specification should be used in work. Laboratory tests of MS rod, coarse sand, cement etc. have been done. Test reports have been made available in the field.
- The shelters have been designed as three storey buildings with provision of livestock accommodation on the 1st floor with ramp provision. The design provides construction of several numbers of cast in situ piles with variable lengths with pile diameter of 500 mm each.
- Reinforcement steel have not been properly stacked at sites (**Photo: 1**). There should be raised platform in safe location to store MS rod, MS angles, Steel shutter materials etc.



Structure Wise Progress

The physical work of the package is still limited to foundation work only. Foundation work up to grade beam level mainly include i) Casting of required nos. of cast-in-situ piles; ii) Pile cap casting including bracing beams; iii) Pedestal column casting up to grade beams and iv) Grade beam casting.

Works in all the shelters are largely limited to casting of cast-in-situ piles only.

- **COP-336:** All 75 nos. cast-in situ piles of lengths of 15.1 m and diameter of 500 mm have been cast. Breaking of pile heads for pile cap casting in some piles is in progress (**Photo: 2**). Bricks have been improperly stacked at gate entry point (**Photo:3**).



The quality of bricks should be improved (Photo:4).



- **COP-456:** All 70 nos. cast-in situ piles of lengths of 11.6 m and diameter of 500 mm have been cast. Pile load test preparations are being taken (Photo:5). Site office is under construction. MS rod should be properly stacked in raised platform (Photo:6).



- **COP 451:** Re-bar fabrication for casting of situ piles is in progress. (Photo:7). 30 nos. cast in situ piles out of 70 nos. have been cast so far. Each pile has a length of 19.5 m and diameter of 500 mm.
- **COP-344:** Casting of all 75 nos. situ piles have been completed. The length of each pile is 6.0 m. Earthwork for pile cap casting was going on.
- **COP-345:** Cast in situ piles have been completed. Breaking of pile heads have been done (Photo:8), Re-bar fabrication for pile cap casting is underway.



- **COP-180:** 44 nos. cast in situ piles out of 75 nos. have been cast so far. Each pile has a length of 20.1 m and diameter of 500 mm. Preparations for casting of situ piles is in progress (**Photo:9**).



Shelter Connecting Roads

There is provision of shelter connecting road of lengths 750 m in **COP 344** and 599 m in **COP 345**. Construction works of the connecting roads have not been started as yet.

C. Environmental Enhancement Works

The BoQ of the package has provision of 13 items related to environmental enhancement works as identified during environmental assessment of subprojects. Our observations on the compliance of the environmental enhancement works are as follows:

- **First Aid Box:** First aid boxes with standard contents have been procured for all sites (**Photo:10**).



- **Safety Fence:** Safety fence has been erected in all construction sites except **COP-451** to keep the students and public away to avoid the danger of accident. The fencing has been made by corrugated iron sheets. The quality of fencing is fairly good (**Photo:11**).



- **Grass Turfs:** It is not required at the moment.

- **Vegetation and Tree Plantation:** Vegetation and tree plantation will be done in due time.

- **Water Filter:** Water filters have been procured for every site (**Photo:12**).



- **Safety Gear Package:** Safety gear package such as helmets, hand gloves, rubber shoes, light reflecting dress etc. have been procured. Labors were seen using them (**Photo:13**). However, we were informed that labors are reluctant to use these safety gears as they are not used to it. They should be motivated by explaining the benefit of using the safety gear materials.



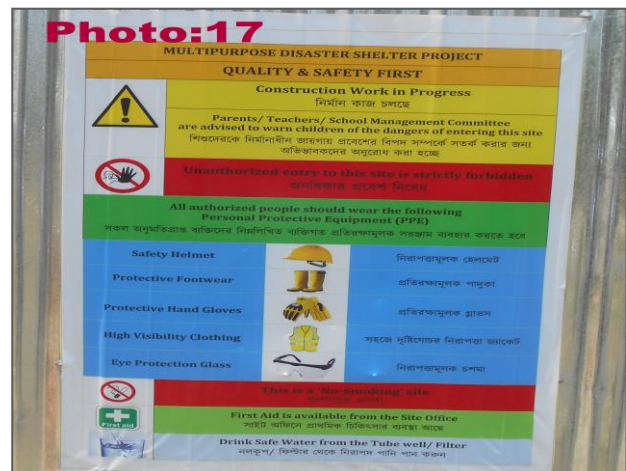
- **Temporary Sanitary Latrine:** Temporary sanitary latrines for use by the labors were found in all visited sites except **COP-336**. These are twin latrines, one is for use by the male labors and the other one by the female labors (**Photo:14**).



- **Waste disposal facility:** No planned practice of waste disposal particularly disposal of construction debris was observed. Under-construction debris and garbage are kept haphazardly (**Photo:15**). Garbage must be stockpiled and removed to a pre-designated waste disposal area. FREs/ site supervisors should monitor this issue strictly.



- **Dust Suppression Measures:** In some sites, sand was kept under cover to stop dust pollution while in some other sites, these were kept exposed (**Photo:16**). This should always be kept under cover to prevent dust pollution.
- **Environmental and Social/Safeguard Personnel:** Environmental and Social/Safeguard personnel are yet to be deployed.
- **Health/Safety Warning Sign.** Poster indicating health/safety warning sign was found at all sites (**Photo:17**).



- **Labor Sheds.** Labor sheds have been made but the quality of the sheds should be improved. Ceiling fans should be fixed (**Photo:18**).



- **Site Camp Office:** Site camp offices have been constructed but these are lagging required furniture like Racks, Almirah etc. to keep important project documents (**Photo:19**).



- **Tube Well:** Tube wells have been installed at all sites to get safe drinking water for the labors and site staff. The colour of head of tube well should be other than red as red colour indicates arsenic presence in water of the tube well.
- **Construction of Temporary Shed for Uninterrupted Schooling:** There is provision of construction of temporary sheds for class accommodation where existing building has to be dismantled to make room for construction of the new shelters. In **COP-180**, one thatched temporary shed has been constructed. The quality of the shed appears to be weak with chances of rain water being splashed in or even the shed being damaged by strong winds (**Photo:20**). The D&S Consultants may think of designing a typical temporary shed for the purpose. The students demanded fixation of a few ceiling fans in the class rooms.



D. Compliance of SMP and RMP

For Shelters, LGED generally do not prepare RAP involving acquisition of land and resettlement of the PAPs as the shelters are mostly built in the premises of Government Primary Schools. During field visit, no problem relating to land and resettlement of PAPs was observed.

E. Conclusion.

LGED/MDSP/COX/14-15/NW-04 is an ICB contract. It is expected that M/S Wahid Construction Ltd., a renowned contractor selected for the ICB package will execute works most efficiently meeting all the contractual obligations complying QAP, EMP, SMP etc. properly demonstrating the flavour and excellence of an ICB contract having distinct difference from that of an NCB contract. Right at the beginning of the implementation works of the package, we would like to emphasize upon all concerned of the importance of the issue mentioned above.

We express our deep appreciation and thanks to the LGED officials, the DS Consultant personnel, School Authorities, Teachers and the Contractor personnel for the kind cooperation extended to us during the field visit.

A.H.M. Mahbubur Rahman,
Team Leader, M&E Consultants,
MDSP, LGED