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

FIELD VISIT REPORT

1. Period of Visit : 08 May – 09 May 2018

2. Location of Visit : Lakshmipur District.

3. Participant of visit : A.H.M. Mahbubur Rahman, TL, M&E Consultant,
Md. Matiur Rahman, Civil Engineer/ M&E Specialist, M&E Consultant,
Dr. Md. Barkat Ullah, Environment Specialist, M&E Consultant

4. Officials met during Visit :

LGED OFFICIALS

- Mr. A.K.M. Rashid Ahmed, Executive Engineer, LGED, Lakshmipur

D&S CONSULTANTS

- Mr. Md. Ahsanullah, Field Resident Engineer, Lakshmipur,
- Mr. Md. Mir Hossain, Estimator cum Lab Technician, Lakshmipur,
- Mr. Md. Saidur Rahman, Field Supervisor, Lakshmipur,
- Mr. Ovijit Mollik, Field Supervisor, Lakshmipur,

CONTRACTORS' PERSONNEL- M/S. Navana Construction Ltd.

- Mr. Engr. Mahmudur Rahman, Project Manager
- Mr. Syed Tamzid Alam, Deputy Project Manager,
- Mr. Dhrubo Chandra Mojumder, Assistant Project Manager
- Mr. Engr. Mahmoodul Alam, Area Manager,
- Mr. Engr. Abul Kalam Azad, Area Manager,
- Mr. Md. Mahbbur Rahman, Community Coordinator,
- Mr. Sabbir Ahmed, Community Coordinator,
- Mr. Md. Ismail Hossain, Site Engineer,
- Mr. Mohd. Johurul Islam, Site Engineer,
- Mr. Md. Feroz Ahmed, Site Engineer,
- Mr. Md. Saiful Islam, Site Engineer,
- Mr. Masum Billah Mojumder, Site Engineer,
- Mr. Mohd. Al-Amin, Jr. Site Engineer,
- Mr. Md. Sujaul Islam, Site Engineer,
- Mr. Md. Delwar Hossain, Site Engineer,
- Mr. Md. Robiul Islam, Site Engineer,
- Mr. Md. Faisal, Site Engineer,
- Mr. Harun-Ar-Rasid, Site Supervisor.

SMC

- Mrs. Suraya Akter, Head Master, Char Pagla Patoary Para GPS at Kamalnagar UZ,
- Mr. Mohd. Mofizullah Master, President, SMC, Char Pagla Patoary Para GPS at Kamalnagar UZ,
- Mr. Mohd. Mohiuddin, Head Master, Madho Char Sekender GPS at Ramgoti UZ,

- Mr. Md. Shamsuddin Ahmed, Head Master, Uttar Purbo Dabipur GPS at Roypur UZ,

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

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

Package no. LGED/MDSP/LAX/14-15/NW-06:

- **LAX-163:** Char Pagla Patoary Para GPS, Kamalnagar UZ.
- **LAX-125:** Char Falkon Zazia GPS, Kamalnagar UZ.
- .**LAX-335:** Madho Char Kalakopa Doctorpara Nomanbath GPS, Ramgati UZ
- .**LAX-333:** Char Gazi GPS, Ramgati UZ
- **LAX-336:** Alexander Girls GPS, Ramgati UZ.
- **LAX-284:** Gayer Char GPS, Roypur UZ.
- **LAX-310:** Uttar Purbo Dabipur GPS, Roypur UZ..
- **LAX-105:** Khashmahal Sakchar GPS, Lakshmipur Sadar UZ.
- **LAX-106:** Madho Sakchar GPS, Lakshmipur Sadar UZ.

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 9 nos. under construction new shelter sites of MDSP in Kamalnagar, Ramgati, Roypur and Lakshmipur Sadar Upazilas of Lakshmipur district.

- The reported physical progress of the construction of the 9 nos. new shelter works are as follows: **LAX-163: 15%; LAX-125: 12%; LAX-335: 21%; LAX-333: 20%, LAX-336: 20%, LAX-284: 5%, LAX-310: 21%, LAX-105: 23%, and LAX-106: 20%**.

- **Site selection:** Selection of all sites for construction of new shelters has been very good as these are in cyclone vulnerable remote places of the district.

- **Staff Mobilization by the Contractor:** M/S. Navana Construction Ltd. has made good mobilization of field personnel. Project Manager, Deputy Project Manager, Assistant Project Manager, Area Manager, Community Organizers, Site Engineers and other support staffs etc. have been mobilized.

- **Construction Schedule**: It is very good that site specific construction schedules of individual shelters of the package have been prepared. This is an essential instrument to program and monitor the construction activities at sites. The schedule has been prepared for each individual structure site in a diagram that shows only the proposed start and completion dates of the various work elements. Actual dates of implementation of the various work elements have not been reflected anywhere. Dates of actual implementation of the various work elements against targets for each individual structure site should be included in the schedule. Monitoring of the actual implementation of the various work elements against targets should be done. As it may be necessary, the construction schedules may periodically be updated and followed up.

- **Site Plan:** Site Plan 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. has 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. In the absence of proper site plan, work is going on haphazardly. Site plan for each individual shelter site should be prepared.

- As of end of April 2018, overall physical progress of the package is **13.50%** against cumulative target as **16.67%.** This means that progress of the package is slightly lagging behind the target.

- Laboratory tests of MS rod, coarse sand, cement etc. have been done. Test reports have been made available in the field and found OK.

- The quality of construction materials such as MS rod, coarse sand etc. procured at sites appears good. But quality of stone chips at some sites appear to be proportionately larger in sizes (**Photo:01).** The Senior Assistant Engineer, LGED, Lakshmipur district informed that laboratory test results of the procured stone chips show that the stone chips comprise over size materials by more than 40%. Contractor representatives have been advised to procure graded stone chips following design requirement.

- Stone chips being used in **LAX-284** is found to contain mud and dust particles. **(Photo: 02)**. The polluted stone chips should be well washed before use.

Photo:01

Photo:02

- Quality steel shutters have been used in all RCC works **(Photo: 03**).
- Site offices and labour sheds have been constructed in most of the sites except in **LAX-284**. Site offices are under construction in **LAX-105 & LAX-106**

Photo:03

- MS rod has been stacked irregularly and haphazardly **(Photo: 04)**. There should be raised platform in safe location to store MS rod, MS angles, Steel shutter materials etc.
- Excavated earth has been stacked irregularly and haphazardly **(Photo: 05).** Advised to immediately remove the earth to the demarcated waste disposal area.

Photo:04

Photo:05

- **<u>Creation of drainage obstruction</u>**. At **LAX-163** shelter site, the drainage channel Tulatoli khal has been found to be filled in by the slurry coming from piling works. In no case, the drainage khal should be filled up creating obstruction to open drainage flow. The FRE of the D&S consultant and the Contractor were advised to take immediate measures to maintain free flow in the Tolatoli drainage khal **(Photo:06).**
- In **LAX-335,** the existing school playground has been destroyed to accommodate the construction of the shelter.

Photo:06

- 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.

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.

Our observations on the item of works so far taken up in the above nine shelter sites are as follows:

- **Cast in Situ Piles Casting:** All cast in situ piles with variable lengths with pile diameter of 500 mm each have been cast **in LAX-335, LAX-333, LAX-336, LAX-310, LAX-105 & LAX-106.**
  Works are still ongoing in **LAX-163, LAX-125 & LAX-284 (Photo: 07)**.

- **Pile Load Test:** Pile load tests have been done only in **LAX-335, LAX-310 & LAX-105**. Arrangement for Pile Load Test is still ongoing in **LAX-336 (Photo: 08)**.

Photo:07

Photo:08

- **Pile Integrity Test:** Pile integrity test has been done in **LAX-105** only.

- **Pile Caps Casting including Bracing Beams**: Pile cap casting including bracing beams is underway only in **LAX-105**. Here, 12 nos. of pile caps out of total 31 nos. including bracing beams have been done **(Photo:09)**. Rebar & shutter placement for the remaining pile caps casting is in progress at site.

Photo:09

Shelter Connecting Roads

There is provision of shelter connecting roads (SCR) of various lengths mentioned below:

LAX-163: **SCR = 176 m**
LAX-284: **SCR = 1107 m**
LAX-310: **SCR = 1600 m**
LAX-106: **SCR = 1050 m**

Construction works of the shelter connecting roads at shelter sites has not been taken up as yet **(Photo :10)**.

Photo:10

C. Compliance of Environmental Safety Measures.

The BoQ provides as many as 13 items related to environmental safety measures as identified during environmental assessment of subprojects. The contractor has engaged Community Organizers to monitor the implementation of EMPs. Three Community Organizers were met in the field.

. Our observations on the compliance of the environmental safety measures are as follows:

- **First Aid Box:** First aid boxes with standard contents have been procured at all sites.
- **Protective Fencing**: Protective fencing has been erected in almost all construction sites to keep the site away from public thoroughfare particularly students to avoid the danger of accident. The fencing is made mixed of CI sheets and nylon wires **(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:** Required nos. of water filters have been procured in each and every construction site **(Photo:12).**

Photo:11

Photo:12

- **Safety Gear Package:** Safety gear package such as helmets, hand gloves, rubber shoes and light reflecting dresses have been procured in all construction sites. Labors are using this safety gear package during working period of shelter construction **(Photo:13**).

Photo:13

- **Temporary Sanitary Latrine:** Temporary sanitary latrines have been constructed for labors in all sites **(Photo:14)**.

Photo:14

- **Temporary Camp Site Waste Disposal Facility**: Demarcated area for waste disposal particularly for disposal of construction debris like earth, concrete etc. was not observed. The Contractor should arrange a separate demarcated area away from construction site to temporarily dispose construction debris in order to create a safe environment for smooth construction works.
  Mount of earth has been dumped right on the excavated pit of **LAX- 335** creating an unworkable environment at the site (**Photo:15**). Site Engineer informed that they will be arranging soon space for waste disposal.

Photo:15

- **Dust Suppression Measures:** In some sites **(LAX-163, LAX-125, LAX-335, LAX-333, LAX-336 and LAX 106),** sand was kept covered in order to stop dust pollution while in **LAX-284 and LAX-310)**, these were kept exposed. Sand should always be kept covered to protect from air pollution **(Photo:16).**

Photo:16

- **Environmental and Social/Safeguard Personnel:** Environmental and Social/Safeguard personnel designated as Community Coordinator have been engaged. They have just recently been trained by the D&S Consultant.
- **Health/Safety Warning Sign**: No health/safety warning sign was found in all shelters construction sites.

- **Tube Well:** Tube wells have been installed at all sites to have safe drinking water for the labors and site staff. The colour of head of the some tube wells is red. Red colour indicates arsenic presence and therefore should be coloured green or as appropriate **(Photo: 17)**.

Photo:17

- **Construction of Temporary Shed for Uninterrupted Schooling:** The quality of most of the sheds to accommodate temporary schooling is relatively better although it is made of tarza fencing **(Photo:18).**

Photo:18

D. Opinion of SMC

The Head Master/Head Mistress are important members of the SMC. During visits, some of them informed that due to construction of the new shelter buildings in the school premises, the prolonged need of improvement of the dilapidated school buildings will be met. This along with supply of school logistics will greatly create a good environment for an improved schooling activities. They verily hope that after completion of the shelter cum school, the nos. of student enrolment is likely to increase.

They however mentioned that due to dismantling of the existing school buildings, some temporary school sheds have been made as alternative accommodation for classes but the quality of the temporary needs to be improved.

F. Conclusion.

We would recommend to PMU, D&S consultants and related stakeholders to please consider our observations given above and take necessary measures as deemed appropriate.

Finally, we would express our deep gratitude to Mr. A.K.M. Rashid Ahmed, Executive Engineer, LGED, Lakshmipur to have very fruitful exchange of views in respect of implementation of the new shelter construction works with particular emphasis on environmental and social safeguard aspect.
We express our deep appreciation and thanks to the DS Consultants, School Authorities, Teachers and the Contractors for their kind cooperation extended to us during the field visit.

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MDSP, LGED