

## Multipurpose Disaster Shelter Project (MDSP)

### Environmental Safeguard Aspect

All the shelters are subject to prior environmental assessment in order prevent execution with significant negative environmental impacts. The purpose of EA is to get relevant environmental concerns addressed before start of construction activities to ensure identification of probable environmental impacts, mitigation measures thereof, preparation of Environmental Management Plan (EMP) which will be budgeted for.

The Environmental Management Plan (EMP) adopted for MDSP to address the general construction hazards have been listed below:

### **Construction of New Shelters**

#### **Environmental Management Plan [EMP]**

<b>Items</b>	<b>Details</b>	<b>Cost</b>
1. First Aid Box – 2 nos.	-Sterile gauge -Adhesive tape -Adhesive bandages-different size -Antiseptic wipes: detol, savlon, soap, antibiotic cream, - Scissors, safety pins, - thermometer, - plastic gloves ( 2 pairs),	Tk. 13,000.00

	<ul style="list-style-type: none"> <li>- flashlight,</li> <li>- water purifier tablet,</li> <li>- common disaster recovery medicines etc.</li> </ul>	
2. Protective Fencing, sign boards	<ul style="list-style-type: none"> <li>-Protective fencing,</li> <li>- sign board</li> <li>- removal, disposal of: <ul style="list-style-type: none"> <li>➤ stumps, logs of trees,</li> <li>➤ construction debris, rubbish,</li> <li>➤ leveling and dressing of site etc.</li> </ul> </li> </ul>	Tk. 19,000.00
3. Ceramic water filter- 3 nos.(32 litres)	-Best quality	Tk. 10,500.00
4. Safety Gear packages- 20 sets	Hand gloves, eye protection glasses, helmets, rubber shoes, light reflecting dresses.	Tk. 100,000.00.
5. Motivational training on safety practice- twice for 20 persons	Before and after construction; UZ engineers, contractors representatives	Tk.40,000.00
6. Sanitary latrine- 2 nos.	Separate for male and female	Tk.40,000.00

7. Ty. camp site waste disposal facility- 2 nos.	<ul style="list-style-type: none"> <li>- Organic waste</li> <li>- Inorganic waste</li> <li>-</li> <li>-</li> </ul>	Tk. 40,000.00
8. Dust suppression measures	<ul style="list-style-type: none"> <li>- Covering/ Water sprinkling on aggregate, unpaved roads in &amp; around work site</li> </ul>	LS. Tk.80,000.00
9. Community Coordinator (Env. & Social safeguard personnel) @ 1 person for 21 nos. shelters	<ul style="list-style-type: none"> <li>- Monitoring during construction and operation phase</li> </ul>	Tk. 40,000.00 per shelter
10. Health / Safety warning sign. (LS)	<ul style="list-style-type: none"> <li>- For road construction works</li> </ul>	Tk. 5,000.00
11. Tube well installation for drinking water purposes for labor and field personnel	<ul style="list-style-type: none"> <li>- 1 no. tube well should be installed before construction starts</li> <li>- Water samples to be collected half yearly for lab analysis- 3 nos. tests</li> </ul>	Tk. 41,400.00
12. Construction of ty. Shed (75'x25')	<ul style="list-style-type: none"> <li>- The shed will be required for schooling purposes when the existing school building will be dismantled for construction works.</li> </ul>	Tk. 225,130.00

## Rehabilitation of Existing Shelters

### Environmental Management Plan [EMP]

Items	Details	Cost/shelter
1. First Aid Box – 1 No	<ul style="list-style-type: none"><li>-Sterile gauge</li><li>-Adhesive tape</li><li>-Adhesive bandages-different size</li><li>-Antiseptic wipes: detol, savlon, soap, antibiotic cream,</li><li>- Scissors, safety pins,</li><li>- thermometer,</li><li>- plastic gloves ( 2 pairs),</li><li>- flashlight,</li><li>- water purifier tablet,</li><li>- common disaster recovery medicines etc.</li></ul>	Tk. 3,000.00

2. Ceramic water filter (32 litres)- 1 No.	-Best quality	Tk. 3,500.00
3. Safety Gear packages.	- Hand gloves, eye protection glasses, helmets, rubber shoes, light reflecting dresses.	Tk. 2,000.00.
4. Temporary sanitary latrine.	-For use by the labors	Tk.10,000.00
5. Dust suppression measures	- Covering/ Water sprinkling on aggregate, unpaved roads in & around work site	Tk.5,000.00
6. Working labor shed	-For accommodation of labors (One shed for three shelters)	Tk.25,000.00/ labor shed
7. Site cleaning.	-This includes safety sign boards, dismantling and removing solid waste, dressing and leveling of site etc.	Tk.11,500.00/ shelter site