

Virtual Site Visit at Panchbibi Municipal Market

Objectives: Visual monitoring of environmental safety and facilities in Panchbibi Municipal Market as agreed in approved Environmental Assessment Report submitted by Panchbibi Municipality

Tools used for monitoring: WhatsApp video call, individual discussion with SE-BMDF over mobile phone

Participants: Supervision Engineer (BMDF) and Sub-Assistant Engineer, Panchbibi Municipality at site.

Name of Sub-Project	Proposed environmental infrastructure	Present status	Comments
Construction of Municipal Market at Panchbibi	Labor shed (male/female)	There is a labor shed constructed at same place for both Panchbibi Municipal kitchen Market and Municipal Market. The labor shed is moderately livable in context of ventilation, space, safe water supply, toilet facilities etc. Now no labor reside inside the labor shed. The contractor using labor shed as a store room for construction materials.	As per environmental assessment report and EMP, there are fund allocation for labor sheds and basic facilities. The construction materials of labor sheds are made of corrugated iron sheets, wood and bamboo. Electric fan and lights are there. Overall condition of labor sheds are moderate.
	Safe water supply,(labor shed)	There are safe water supply provision from hand tube well which has been installed in front of labor shed.	The overall water supply and water dispensing method are satisfactory.
	Toilet (male/female)(labor shed)	There are pre-constructed pucca latrine in the premises of labor sheds.	Construction laborers are using the existing latrine. The condition and cleanness of the latrine are moderate.
	PPE Use during Work	Like other site, the working Construction laborers do not use PPE at all time. They use PPE when visitors from BMDF visit the site.	Tireless effort has given to ULB and SE-BMDF to ensure PPE use by construction labors but not fully succeed.
	Soap and Water Use for Hand wash	No arrangement of soap and water has seen at site	A guideline on COVID-19 has been sent to all ULBs and a signboard on COVID-19 suggested to fix at the entry of all sites. Instruction has given to SE-BMDF and ULB to ensure both soap and water.

Toilet (male/female)(Building)	There are toilets for male, female and disabled people in the drawing of the building.	Brick work has started. User based toilets have not been marked yet.
Septic tank	There is aseptic tank which was designed as per generation of sludge per user per day.	Construction of septic tank has yet not started.
Soak well	There is a provision of one soak well instead of two. One for accommodate septic tank waste water and another for accommodate waste water from floor cleaning.	The Municipality is advised to construct another soak well during recast submission to BMDf.
Disabled toilets	There are provision of disable toilets in the market.	Not yet completed
Ramp	There is a ramp at ground floor for disabled, elderly people.	The ramp is under construction.
Safe water supply (Building)	Water supply sources will be DTW	DTW installation work has yet not started
Washing Point	As per drawing there are washing points at ear marked areas.	Like other work, it is also under completion.
Janitors closet	Janitor's location not yet settled.	The location will be fixed after completion of all construction and finishing works.
Fire protection	Provision of fire protections have been designed.	Fire protection equipment will be fixed after finishing of civil works.
Solid and Waste water management	As per design and Environmental Management Plan, there will have brick bin outside the building for dumping daily waste generated from each floor.	There is no secondary bin constructed for solid waste disposal outside the existing building. They will construct bin after finishing the building work.

Environmental threat:

- Contamination of COVID-19 among the construction labors and other associated persons.
- Solid and waste Management during operational period
- Traffic control in front of the Market
- Careless use of toilets instead of particular users like female toilets by male without following symbol on toilet's door.
- Periodic laboratory tests of supply water in the market
- Maintaining cleanness in and around the market, toilets, common spaces etc.

- As other sensitive items like fire protection, toilets, waste collection procedure etc. have not been finalized/completed which are important environmental parameters and related with WB environmental compliance. At this stage, no remarks can be made.

Environmental Parameter (Air, Noise) analysis of Municipal Market at Panchbibi Municipality

Air Quality:

Environmental parameter like air quality and noise level has been deteriorated from the baseline to construction phase. There is no big industries, insignificant number of motorized vehicles and moderate number of construction works in comparison with other big Cities, as a result no environmental parameters have been crossed the Bangladesh standard environmental parameters during construction phase except PM10 and CO. The reason of higher quantity of PM10 may be the construction work's materials like brick breaking, sand screening and further adding kitchen market particulates during market periods. The CO increased might be for carrying construction materials by truck, tractors, mixture machines, brick breaking machines etc. The data collection of completion phase has yet not been captured. So, comparison has been made between baseline and construction phases. It has to be monitored that the status of environmental parameter after completion of construction works. If the air quality do not return to it's baseline form then mitigation measures like water spray, smoke emissions from vehicle, equipment and solid waste management have to be improved.

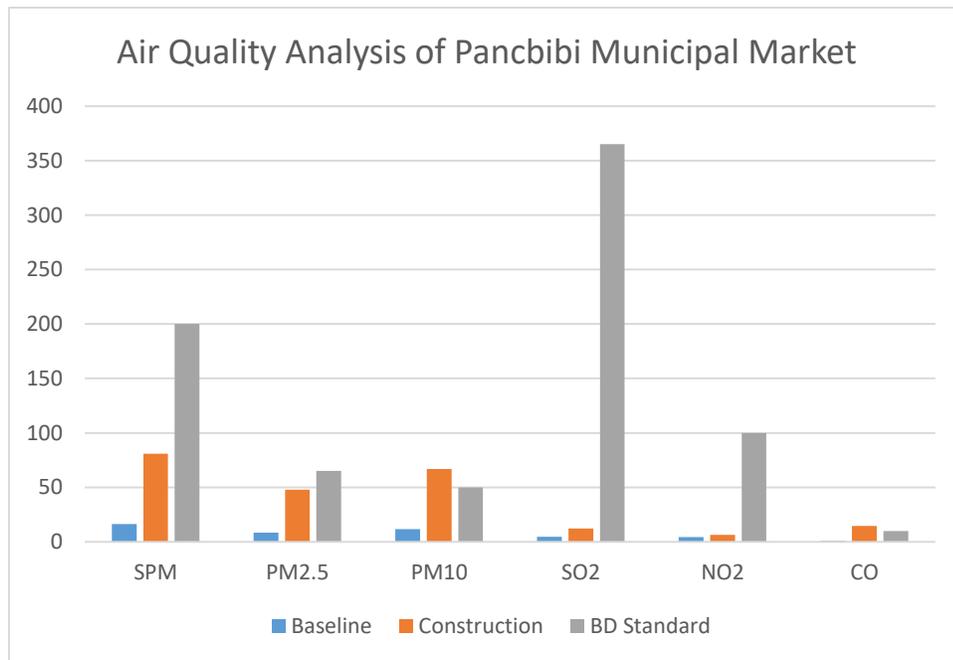


Figure: 1

Noise Level:

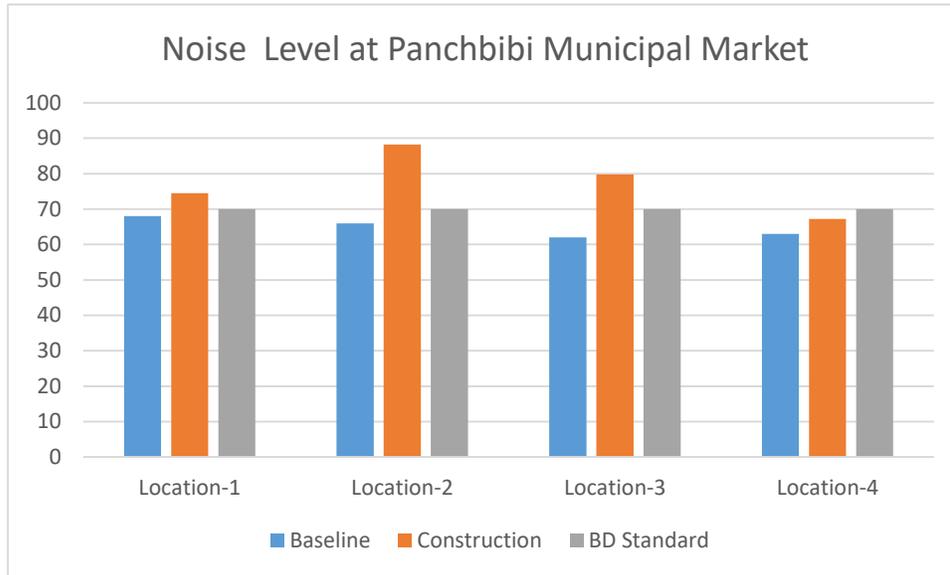


Figure: 2

The above figure shows the comparison between baseline and construction phase noise level at site. There are four locations at four corners of the Municipal Market. All the baseline level of noise are lower than Bangladesh standard. At locations 1, 2, and 3, construction phase noise levels are higher than the Bangladesh Standard. The noise levels at three locations of the market are higher may be for the gathering of visitors, carrying, breaking, cutting, welding of construction materials and movement of motorized vehicles etc.

Remaining noise level data will be captured after completion of construction works. If the noise levels do not back to it's original level then below measures have to be taken.

For noise control, horn, noise from vehicles, mechanized and non-mechanized vehicles parking system have to be controlled through awareness, engaging community police and fixing signboards at strategic points in front of the Market.

Actions need to be taken:

- ***Ensure use of PPE***
- ***Regular monitoring of body temperature by infrared thermometer***
- ***Availability of Soap and water at site and motivate all engaged labor to use Soap and Water during hand wash at least for 20 seconds***
- ***Consider a soak well in revised design/recast***

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