

L. Environmental Mitigation Measures - Implementation Status

Air Quality – Recommended Mitigation Measures

Air Quality Mitigation Measures during construction	Implementation Status
access roads should be sprayed with water or dust suppression chemical to maintain the entire road surface wet or paved;	✓
every stock of more than 20 bags of cement or dry PFA should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;	N/A
de-bagging, batching or mixing process should be carried out in sheltered areas during the use of bagged cement;	N/A
use of effective dust screens, sheeting or netting to be provided to enclose dry scaffolding which may be provided from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level (maximum four floors for this Project) of the scaffolding where scaffolding is erected around the perimeter of a building under construction;	N/A
dump trucks for material transport should be totally enclosed using impervious sheeting;	✓
any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading;	✓
dusty materials remaining after a stockpile is removed should be wetted with water;	✓
the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with e.g. concrete, bituminous materials or hardcore or similar;	✓
the portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit should be kept clear of dusty materials;	✓
stockpile of dusty materials to be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;	✓
all dusty materials to be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;	✓
vehicle speed to be limited to 10 kph except on completed access roads;	✓
every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;	✓
the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and	✓
the working area of excavation should be sprayed with water immediately before, during and immediately after (as necessary) the operations so as to maintain the entire surface wet.	✓
Odour mitigation measures	
all malodorous excavated material should be placed as far as possible from any ASRs;	N/A
the stockpiled malodorous material should be removed from site as soon as possible; and	N/A
the stockpiled malodorous material should be covered entirely by plastic tarpaulin sheets.	N/A

Noise – Recommended Mitigation Measures

Noise Mitigation Measures during construction	Implementation Status
only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works;	✓
machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;	✓
plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;	✓
silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction period;	✓
mobile plant should be sited as far away from NSRs as possible;	✓
material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities; and	✓
air compressor and hand-held breaker should be fitted with valid noise emission labels during operation; and	N/A
The Contractor shall at all times comply with all current statutory environmental legislation.	✓
<i>Selection of quieter plant and working methods</i>	✓
The Contractor shall obtain particular models of plant that are quieter than standards given in GW-TM. The list of assumed quieter plants can be found in the Table 4–14 of the EIA report. The Contractor shall select from the available models achieving the assumed sound levels while making reference to the GW-TM and BS5228: Part 1: 1997	
<i>Use of Noise Barriers</i>	✓
Noise barriers are proposed along the site boundary to block the direct line of sight from the most affected NSRs to the major noise contribution construction phases. The height of the noise barriers ranged from 9-10m. The noise barriers shall be built before the commencement of construction works in order to ensure protection to nearby NSRs. The noise barrier should have a surface density of at least 10kg/m ² or material providing equivalent transmission loss. The noise barriers and hoardings should have no gaps and openings to avoid noise leakage.	

Water Quality – Recommended Mitigation Measures

Water Quality Mitigation Measures during construction	Implementation Status
The site should be confined to avoid silt runoff to the site.	✓
No discharge of silty water into the storm drain and drainage channel within and the vicinity of the site.	✓
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	✓
Stockpiles to be covered by tarpaulin to avoid spreading of materials during rainstorms;	N/A
Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;	✓
Chemical waste containers shall be labelled with appropriate warning signs in English and Chinese to avoid accidents. There shall also be clear instructions showing what action to take in the event of an accidental;	✓
Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area;	✓
Any construction plant which causes pollution to the water system due to leakage of oil or fuel shall be removed off-site immediately;	N/A
Spillage or leakage of chemical waste to be controlled by using suitable absorbent materials;	N/A
Chemicals will always be stored on drip trays or in bunded areas where the volume is 110% of the stored volume;	✓
Regular clearance of domestic waste generated in the temporary sanitary facilities to avoid waste water spillage.	✓
Temporary sanitary facilities to be provided for on-site workers during construction.	✓

