

ENVIRONMENTAL MANAGEMENT

PERFORMANCE MONITORING – ENVIRONMENTAL CONTROL MEASURES

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Date of ESCP Approval	: 17 June 2011
ESCP Approval Ref. No.	: Bil.(15) dlm.JPS.PHG.TK 008/30 BHG.3

No.	Location	Control Measures	Provision		Status (Installation)	Response from Contractor dated 09/10/2014 (Maintenance: Reply to PM-01/10/2014)	Observations/Findings/Suggestions (Last Inspection – 18/09/2014)	Observations/Findings/Suggestions (Recent Inspection – 30/09 & 01/10/2014)	Observations/Findings/Suggestions (Latest Inspection – 14/10/2014)	*Accepted
			ESCP	Actual						(√ / X)
A. Silt Traps and Vicinity Area										
1.	Saddle Dam A	ST-2-01	✓	✓	Installed on: 1 Aug 2011 Status: Operational <u>Last Maintenance:</u> -09 Aug 2014: De-silt -09 June 2014: De-silt -24 Feb 2014: De-silt -14 Jan 2014: De-silt -28 Dec 2013: Gabion wall	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> 09 October 2014	<u>Observation:</u> - Clear discharge is observed from silt trap. - Some section of exposed slope at RHS & LHS Saddle Dam A has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To vegetate the exposed slope immediately. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>X</div>	<u>Observation:</u> - Clear discharge is observed from silt trap. - Some section of exposed slope at RHS & LHS Saddle Dam A has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To vegetate the exposed slope immediately. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>X</div>	<u>Observation:</u> - Slightly clear discharge is observed from silt trap. - Some section of exposed slope at RHS & LHS Saddle Dam A has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To vegetate the exposed slope immediately. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>X</div>	X
2.	Saddle Dam A	ST-2-02	✓	✓	Installed on: 15 Aug 2011 Status: Operational <u>Last Maintenance:</u> -26 July 2014: De-silt -09 June 2014: De-silt earth drain -26 Feb 2014: De-silt -8 Feb 2014: De-silt	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> 17 October 2014	<u>Observation:</u> - Clear water ponding is observed. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	<u>Observation:</u> - Outlet has been constructed for this pond. - No discharge is observed. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	<u>Observation:</u> - Clear discharge is observed. - In progress of land clearing including bushes in the reservoir area. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	✓
5.	Forest Area (Access)	ST-2-05	✓	✓	Installed on: 22 July 2012 Status: Operational <u>Last Maintenance:</u> -5 Dec 2013: De-silting -2 Oct 2013: De-silting	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> 05 November 2014	<u>Observation:</u> - No discharge is observed. - Dumping activity active has been done. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	<u>Observation:</u> - No discharge is observed. - Natural vegetation is observed in the pond and surrounding it. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	<u>Observation:</u> - No discharge is observed. - Natural vegetation is observed in the pond and surrounding it. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. <div>√</div>	✓
6.	River Diversion	GB 14 (d/stream of ST5)	-	✓	Installed on: May 2012 Status: Operational Last Maintenance:	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> (To be updated by	<u>Observation:</u> - No access due to natural vegetation and hydroseeding grows very well surrounding the silt trap.	<u>Observation:</u> - No access due to natural vegetation and hydroseeding grows very well surrounding the silt trap.	<u>Observation:</u> - No access due to natural vegetation and hydroseeding grows very well surrounding the silt trap. Suggestions/Recommendations:	X

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			ESCP	Actual						(√ / X)
					- 17 November 2013: Close turfing - 9 Oct 2013: Closed-turfing	Contractor	<u>Suggestions/Recommendations:</u> - To clear the bushes and make an access. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. X	<u>Suggestions/Recommendations:</u> - To clear the bushes and make an access. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. X	- To clear the bushes and make an access. - Daily monitoring and regular inspection to be carried out after event of heavy downpour. X	
7.	Spillway	ST-2-06	✓	X	Installed on: 30 June 2011 Status: Closed on 01-03- <u>Last Maintenance:</u> -16 Jan 2014: Replaced plastic sheets -16 Jan 2014: De-silting sump	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> (To be updated by Contractor)	<u>Observation:</u> - Exposed slope (LHS & RHS) at newly constructed drain has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To protect the exposed slope immediately. - To maintenance regularly the access road. X	<u>Observation:</u> - Exposed slope (LHS & RHS) at newly constructed drain has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To protect the exposed slope immediately. - To maintenance regularly the access road. X	<u>Observation:</u> - Exposed slope (LHS & RHS) at newly constructed drain has yet to be vegetated. <u>Suggestions/Recommendations:</u> - To protect the exposed slope immediately. - To maintenance regularly the access road. X	X
8.	Batching Plant	ST-2-06a	-	✓	Installed on: 5 Sept 2011 Status: Operational <u>Last Maintenance:</u> -6 Dec 2013: Construct earth bund -8 Nov 2013: De-silting	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> 03 November 2014	<u>Observation:</u> - Dry silt trap is observed. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. ✓	<u>Observation:</u> - No discharge is observed. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. ✓	<u>Observation:</u> - No discharge is observed. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection to be carried out after event of heavy downpour. ✓	✓
9.	Main Dam	ST-2-06d	-	✓	Installed on: 30 March 2012 Status: Operational <u>Last Maintenance:</u> -18 Sep 2014: De-silt -10 June 2014: De-silt -24 Mar 2014: De-silting -24 Feb 2014: De-silting	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> 18 October 2014	<u>Observation:</u> - No discharge is observed. - Silt trap has been de-silted. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour. ✓	<u>Observation:</u> - No discharge is observed. - Silt trap has yet to be de-silted. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour. X	<u>Observation:</u> - Clear discharge is observed. - Silt trap has yet to be de-silted. - Backflow from river water is observed. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour. X	X
10.	Coffer Dam	ST-2-06e	-	✓	Installed on: 27 Dec 2012 Status: Operational <u>Last Maintenance:</u> -6 Aug 2014: De-silting -8 July 2014: Install dissipater - 6 Feb 2014: De-	<u>Proposed Action / Action Taken:</u> Contractor will rectify the embankment together with construction of permanent gabion wall. <u>Next Maintenance:</u> 06 November 2014	<u>Observation:</u> - No discharge is observed. - Eroded river bank/embankment LHS ship pile has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify eroded river bank/embankment immediately. - Daily monitoring and regular inspection/maintenance to be	<u>Observation:</u> - No discharge is observed. - Eroded river bank/embankment LHS ship pile has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify eroded river bank/embankment immediately. - Daily monitoring and regular inspection/maintenance to be	<u>Observation:</u> - No discharge is observed. - Eroded river bank/embankment LHS ship pile has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify eroded river bank/embankment immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	X

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			ESCP	Actual						(√ / X)
					silting -30 Dec 2013: Closed turbing -10 Dec 2013: De-silting		carried out after event of heavy downpour. - To plan and provide schedule for maintenance works.	carried out after event of heavy downpour. - To plan and provide schedule for maintenance works.	- To plan and provide schedule for maintenance works.	
13.	Relocation Road (B)	ST-2-15 CH 2550	✓	-	Installed on: 21 February 2014 Status: Operational	Next Maintenance: 03 October 2014	<u>Observation:</u> - No discharge is observed from the silt trap. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Slightly turbid discharge is observed from the silt trap due to heavy downpour at night. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Turbid discharge is observed from the silt trap due to heavy downpour. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	X
14.	Relocation Road (B)	ST-2-16 CH 2650	✓	-	Installed on: 23 February 2014 Status: Operational	Next Maintenance: 03 October 2014	<u>Observation:</u> - No discharge from silt trap is observed. - Dry silt trap is observed. - Riprap works in progress along the expose slope. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - No discharge from silt trap is observed. - Gap is observed at the gabion wall. - Riprap works in progress along the expose slope. <u>Suggestions/Recommendations:</u> - To rectify the gap immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - No discharge from silt trap is observed. - Gap at the outlet gabion has yet to be rectified. - Riprap works is in progress along the expose slope. <u>Suggestions/Recommendations:</u> - To rectify the gap immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	X
15.	Relocation Road C5	ST-2-17 CH 3200	✓	-	Installed on: 25 February 2014 Status: Operational <u>Last Maintenance:</u> -12 July 2014: Rectify geotextile	<u>Proposed Action / Action Taken:</u> - Ruptured geotextile has been rectified. <u>Next Maintenance:</u> 03 October 2014	<u>Observation:</u> - No discharge is observed from the silt trap. - Eroded outlet has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Turbid discharge is observed from the silt trap due to heavy downpour at night. - Eroded outlet has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Turbid discharge is observed from the silt trap due to heavy downpour. - Eroded outlet gabion has yet to be rectified. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	X
16.	Relocation Road	ST-2-18 CH 3600	✓	-	Installed on: 28 February 2014 Status: Operational	Next Maintenance: 03 October 2014	<u>Observation:</u> - Dry silt trap is observed. - Outlet is observed to be eroded. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Slightly clear discharge is observed. - Outlet is observed to be eroded. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	<u>Observation:</u> - Slightly clear discharge is observed. - Outlet gabion is observed to be eroded. <u>Suggestions/Recommendations:</u> - To rectify the outlet immediately. - Daily monitoring and regular inspection/maintenance to be carried out after event of heavy downpour.	X

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			ESCP	Actual						(√ / X)
							X	downpour. X	X	
B. Retention Ponds and Vicinity Area										
1.	Reservoir	RP 1	✓	✓	Status: - Construct 2 new RPs on 11 Mar 2013 - Constructed 3 RP - 1 st installed on July 2012 - 2 nd & 3 rd installed on September 2012 Status: Operational Last Maintenance: 13 September 2013: Rectify gaps at the outlet gabion RP 2 13 June 2013: Rectify gaps at the outlet gabion RP 2	<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> (To be updated by Contractor)	<u>Suggestions/Recommendations:</u> - To construct the retention ponds as proposed in the approved ESCP. - To construct the retention pond at strategic locations (lower points to capture silted run-off).	<u>Suggestions/Recommendations:</u> - To construct the retention ponds as proposed in the approved ESCP. - To construct the retention pond at strategic locations (lower points to capture silted run-off).	<u>Suggestions/Recommendations:</u> - To construct the retention ponds as proposed in the approved ESCP. - To construct the retention pond at strategic locations (lower points to capture silted run-off).	✓
2.	Reservoir	RP 2/P02	✓	✓						
3.	Reservoir	RP 3/P03	✓	✓						
4.	Reservoir	RP 4	✓	-						
5.	Reservoir	RP 5	✓	-						
6.	Reservoir	RP 6	✓	-						
7.	Reservoir	RP 7	✓	-						
8.	Reservoir	RP8	✓	-						
9.	Reservoir	RP 9	✓	-						
10.	Reservoir	RP 10	✓	-						
11.	Reservoir	RP 01a	✓	✓						
12.	Reservoir	RP 01b	✓	✓						
13.	Reservoir	RP 01c	✓	✓						
14.	Reservoir	RP 11	✓	-						
15.	Reservoir	RP 12	✓	-						
16.	Reservoir	RP 13	✓	-						
17.	Reservoir	RP 14	✓	-						
18.	Reservoir	RP 15	✓	-						
19.	Reservoir	RP 16	✓	-						
20.	Reservoir	RP 17	✓	-						
21.	Reservoir	RP 18	✓	-						
22.	Reservoir	RP 19	✓	-						
23.	Reservoir	RP 20	✓	-						
24.	Reservoir	RP 21	✓	-						
25.	Reservoir	RP 22	✓	-						
26.	Reservoir	RP 23	✓	-			√	√	√	
C. Gabion Walls / Silt Fences and Other Control Facilities										
1.	Temporary Bridge	CD Service Road 1	-	✓	Installed on: December 2011 Last Maintenance: - 20 May 2013: De-silting sump - 01 Apr 2013: Remove excessive earth materials on the bridge.	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	<u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	<u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	✓
							√*	√*	√*	

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			ESCP	Actual						(√ / X)
2.	Wash Trough	WT	✓	✓	Installed on: 06 November 2012 Status: Operational <u>Last Maintenance:</u> -23 Jan 2014: Carry out maintenance works -16 Jan 2014: De-silting earth drain	<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Maintenance of WT has been carried out. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	<u>Observation:</u> - Maintenance of WT has been carried out. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	<u>Observation:</u> - Maintenance of WT has been carried out. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out.	✓
3.	Stockpile 1 (behind batching plant)	Exposed slope	-	✓	Installed on: 21 June 2012 <u>Last Maintenance:</u> - 27 May 2014: De-silting - 2 Jan 2014: Closed turving - 20 Nov 2013: De-silting - 10 Oct 2013: De-silting & erect SF	<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> (To be updated by Contractor)	<u>Observation:</u> - Dead turving grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Dead turving grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Dead turving grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	X
4.	Stockpile 2 (office)	Drainage system	-	✓	Installed on: 12 June 2012 <u>Last Maintenance:</u> - 16 Jan 2014: De-silting - 10 Oct 2013: Erect silt fence - 16 July 2013: De-silting	<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Silted drain is observed in front of office access road. <u>Suggestions/Recommendations:</u> - To de-silt the drain. - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Silted drain is observed in front of office access road. <u>Suggestions/Recommendations:</u> - To de-silt the drain. - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Silted drain in front of office access road has yet to be rectified. <u>Suggestions/Recommendations:</u> - To de-silt the drain. - To plan and provide schedule for maintenance works.	X
5.	Access Road	Dust Control				<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Water browsing has been carried out. <u>Suggestions/Recommendations:</u> - Road wetting to be carried out more regularly. - Reduce speed limit.	<u>Observation:</u> - Raining season is coming. <u>Suggestions/Recommendations:</u> - Road wetting to be carried out more regularly. - Reduce speed limit.	<u>Observation:</u> - Raining season, no dust anymore. <u>Suggestions/Recommendations:</u> - Road wetting to be carried out more regularly. - Reduce speed limit.	✓
6.	Administrator office (RHS access road)	Exposed slope				<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Exposed slope has yet to be vegetated and dead turfed grass is observed. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Exposed slope has yet to be vegetated and dead turfed grass is observed. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	<u>Observation:</u> - Exposed slope has yet to be vegetated and dead turfed grass is observed. <u>Suggestions/Recommendations:</u> - To plan and provide schedule for maintenance works.	X

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			ESCP	Actual						(√ / X)
7.	Canteen (R/LHS access road)	Exposed slope				<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Dead turfed grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To carry out maintenance works and watering the grass. X	<u>Observation:</u> - Dead turfed grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To carry out maintenance works and watering the grass. X	<u>Observation:</u> - Dead turfed grass has yet to be rectified. <u>Suggestions/Recommendations:</u> - To carry out maintenance works and watering the grass. X	X
8.	Workers' Camp	Housekeeping	-	-	<u>Last Maintenance:</u> - 20 Nov 2013: Re-leveling	<u>Proposed Action / Action Taken:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Poor housekeeping is observed at canteen area and also at workers' camp has yet to be rectified. - Remnants of open burning are observed everywhere. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out. X	<u>Observation:</u> - Poor housekeeping is observed at workers' camp has yet to be rectified. - Remnants of open burning are observed everywhere. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out. X	<u>Observation:</u> - Housekeeping is observed at workers' camp has yet to be carried out. - Remnants of open burning are observed at workers' camp near pipe storage. <u>Suggestions/Recommendations:</u> - Daily monitoring and regular inspection/maintenance to be carried out. X	X
9.	Site Office	Oil & Grease; Scheduled Waste (SW)	-	-		<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Oil spill observed at genset area near site office has yet to be rectified. <u>Suggestions/Recommendations:</u> - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	<u>Observation:</u> - Oil spill observed at genset area near site office has yet to be rectified. - No label and contaminated sand is observed. <u>Suggestions/Recommendations:</u> - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	<u>Observation:</u> - No more oil spill at genset area near site office. - Contaminated sand has been collected. - No labelling at schedule waste is observed. <u>Suggestions/Recommendations:</u> - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	X
10.	Temporary access road (d/stream spillway)	Silt control	-	-	<u>Last Maintenance:</u> -3 July 2014: Compacting access road with gravel	<u>Proposed Action / Action Taken:</u> <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Observation:</u> - Anticipated direct runoff into the river. - Ruptured plastic sheeting is observed. <u>Suggestions/Recommendations:</u> - To construct contour bund and channel it into spillway area. - To plan and provide schedule for maintenance works. X	<u>Observation:</u> - Anticipated direct runoff into the river. - Ruptured plastic sheeting is observed. <u>Suggestions/Recommendations:</u> - To construct contour bund and channel it into spillway area. - To plan and provide schedule for maintenance works. X	<u>Observation:</u> - Anticipated direct runoff into the river. - Direct water pumping is observed but water is clear. <u>Suggestions/Recommendations:</u> - To construct contour bund and channel it into spillway area. - To plan and provide schedule for maintenance works. X	X
11.	Main Dam	Exposed slope	-	-	<u>Last Maintenance:</u> -18 Sep 2014: Re-hydroseeding IPA	<u>Proposed Action / Action Taken:</u>	<u>Observation:</u> - Exposed slope is observed at IPA area has been re-hydroseed.	<u>Observation:</u> - Hydroseeded starts to grow.	<u>Observation:</u> - Hydroseeded starts to grow.	X

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			ESCP	Actual						(√ / X)
					slope 15 May 2014: Closed turfing has been carried out.	<u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday monitoring	<u>Suggestions/Recommendations:</u> - To use others method to plant the seeds (netting, coil log). - To install sprinkler to watering the hydroseeded grass. - To plan and provide schedule for maintenance works. X	<u>Suggestions/Recommendations:</u> - To install sprinkler to watering the hydroseeded grass. - To plan and provide schedule for maintenance works. X	<u>Suggestions/Recommendations:</u> - To install sprinkler to watering the hydroseeded grass. - To plan and provide schedule for maintenance works. X	
12.	Relocation Road	Exposed slope			<u>Last Maintenance:</u> <u>Proposed Action / Action Taken:</u> Constructed check dam at culvert C4. <u>Date to be completed / Date of completion:</u> <u>Next Maintenance:</u> Everyday	<u>Observation:</u> - Exposed slope is observed along relocation. - Riprap works is in progress at slope area. <u>Suggestions/Recommendations:</u> - To vegetate/ protect exposed slope immediately. - To plan and provide schedule for maintenance works. X	<u>Observation:</u> - Turfing works has been started at some area. However still many exposed slope is observed along relocation. - Riprap works is also in progress at slope area. <u>Suggestions/Recommendations:</u> - To vegetate/ protect exposed slope immediately. - To plan and provide schedule for maintenance works. X	<u>Observation:</u> - Turfing works has been started at some area. However still many exposed slope is observed along relocation. - Riprap works is also in progress at slope area. <u>Suggestions/Recommendations:</u> - To vegetate/ protect exposed slope immediately. - To plan and provide schedule for maintenance works. X	X	
13.	Batching Plant	Oil & Grease; Scheduled Waste (SW)	-	-	<u>Last Maintenance:</u> - 3 June 2013: Repair broken bund <u>Proposed Action / Action Taken:</u> Oil spillage has been collected as SW and the area has been rectified. <u>Next Maintenance:</u> Every day morning	<u>Observation:</u> - Oil spill and contaminated soil has yet to be rectified. <u>Suggestions/Recommendations:</u> - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	<u>Observation:</u> - Oil spill and contaminated soil has yet to be rectified. - Poor housekeeping is observed. - Silted earth drain is observed. <u>Suggestions/Recommendations:</u> - To carry out housekeeping and de-silting works immediately. - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	<u>Observation:</u> - Oil spill and contaminated soil has yet to be rectified. - Housekeeping has yet to be to be carried out. - Silted earth drain has yet to be de-silted. <u>Suggestions/Recommendations:</u> - To carry out housekeeping and de-silting works immediately. - SW to be properly contained, labelled, stored and handled/disposed in accordance to the regulations. - Inventory record to be maintained. X	X	

Note: * To be commented by Engineer
 ✓* Accepted with condition (Suggestions/Recommendations/ Proper improvement measures taken on site accordingly)
 X Requires improvement actions to be taken immediately

PHOTOS

Areas of Concern on 14 October 2014 and pending issues on 30 September & 01 October 2014



Plate 1a: Exposed slope along the constructed drain (access road).



Plate 1b: Exposed slope is observed (RHS u/stream of ST-2-01; Saddle Dam A).



Plate 1c: Exposed slope is observed (LHS u/stream of ST-2-01; Saddle Dam A).



Plate 1d: Exposed slope is observed (Main Dam).



Plate 1e: Formation of gullies is observed (RHS Main Dam).



Plate 1f: Exposed slope is observed (d/stream spillway).



Plate 1g: Exposed slope is observed (LHS relocation road CH 2150).



Plate 1h: Exposed slope is observed (LHS & RHS relocation road CH 2150).



Plate 1i: Exposed slope is observed (LHS CH 2650 relocation road).



Plate 2a: Silted drain is observed (behind batching plant-access road).



Plate 2b: Silted earth drain has yet to be de-silted (batching plant).



Plate 3a: Turfing has been dead is observed (Main Dam).



Plate 3b: Turfing has been dead is observed (behind batching plant).



Plate 3c: Turfing has been dead is observed (near to the pipe storage).



Plate 4a: Eroded embankment of silt trap is observed (ST-2-06e).



Plate 4b: Outlet to be eroded is observed (ST-2-18).



Plate 5a: Solid waste is observed scatter around (workers' camp).



Plate 5b: Housekeeping for construction waste has yet to be carried out (draw-off tower).



Plate 5c: Poor housekeeping is observed (batching plant).



Plate 5d: Poor housekeeping is observed (batching plant).



Plate 6a: Poor housekeeping is observed (batching plant).



Plate 6b: Oil spill is observed (batching plant).



Plate 6c: Contaminated geotextile and oil ponding is observed (workers' camp).

PHOTOS
Areas of Concern on 14 October 2014



Plate 1a: Remnant of open burning activity is observed (workers' camp near pipe storage).



Plate 1b: Poor housekeeping is observed (drain at workers' camp).



Plate 2a: Silted drain has yet to be de-silted (near main entrance gate).



Plate 2b: Silted silt trap has yet to be de-silted (ST-2-06d).



Plate 3a: Gap is observed at gabion wall (ST-2-16).



Plate 3b: Gap is observed at gabion wall (ST-2-17).



Plate 4a: Exposed slope has yet to be protected (relocation road under bridge).



Plate 4b: Exposed slope has yet to be vegetated (relocation road).



Plate 4c: Exposed slope has yet to be vegetated (relocation road).



Plate 5a: Schedule waste without labelling is observed (workers' camp).



Plate 5b: Oil drums without tray are observed (saddle dam b).

Rectification works



Plate 1a **(Before)**: Oil spill is observed (near genset at site office).



Plate 1a **(After)**: No more oil spill (near genset at site office).



Plate 1b **(Before)**: Contaminated sand is observed in the tray and no labelling (workers' camp).



Plate 1b **(After)**: Contaminated sand has been collected (workers' camp).



Plate 2 **(Before)**: Remnant of open burning activity is observed (workers' camp).



Plate 2 **(After)**: Remnant of open burning activity has been clean up (workers' camp).



Plate 3a **(Before)**: Exposed slope has yet to be protected (relocation road near bridge).



Plate 3a **(After)**: Riprap works is in progress (relocation road near bridge).



Plate 3b **(Before)**: Exposed slope has yet to be vegetated (relocation road).



Plate 3b **(After)**: Exposed slope has been turfed (relocation road).



Plate 3c **(Before)**: Exposed slope has yet to be vegetated (relocation road).



Plate 3c **(After)**: Exposed slope has been turfed (relocation road).