

ICB No: **CANW-1/IWAI/JMV/11**

Assignment Title: Procurement of EPC Contract for Construction of IWT Terminal at Sahibganj, Jharkhand

Amendment – 1

This amendment forms an integral part of the ICB Document issued on 28nd December, 2015.

Consequent to the Pre-bid meeting queries received from the potential bidders regarding various issues, the modifications suggested to the original ICB Document for Procurement of “EPC Contract for Construction of IWT Terminal at Sahibganj, Jharkhand” are as under:

S. No	Volume, Section clause No. and page no. in ICB document	Original Text	Amendment
1.	Vol I, Section II, Clause ITB 6.3, Pg. 21	Tender fee is required: Yes A fee of Rs 6,000 (Rs. Six thousand) or USD 100 (USD One Hundred) is to be paid through Demand Draft in favor of IWAI Fund; payable at Noida on or before date of opening of bids, i.e. February 11, 2016	Tender fee is required: Yes A fee of Rs 6,000 (Rs. Six thousand) or USD 100 (USD One Hundred) is to be paid through Demand Draft in favor of IWAI Fund; payable at Noida on or before date of opening of bids, i.e. February 26, 2016
2.	Vol I, Section II, Clause ITB 22.1, Pg. 26	The deadline for bid submission is: Date: February 12, 2016 Time: 15:00 Hrs (IST) Bidders have to submit their bids electronically.	The deadline for bid submission is: Date: February 26, 2016 Time: 17:00 Hrs (IST) Bidders have to submit their bids electronically.

3.	Vol I, Section II, Clause ITB 25.1, Pg. 27	<p>The bid opening shall take place at the Office of the Inland Waterways Authority of India, A-13, Sector-1, Noida – 201301, Uttar Pradesh, India on</p> <p>Date: February 12, 2016</p> <p>Time: 15:30 Hrs (IST)</p> <p>The Employer will open all the Bids received (except those whose original documents were not received up-to specified time), including modifications made pursuant to Clause 22 and 24, online and this could be viewed by bidders online. In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.</p>	<p>The bid opening shall take place at the Office of the Inland Waterways Authority of India, A-13, Sector-1, Noida – 201301, Uttar Pradesh, India on</p> <p>Date: February 26, 2016</p> <p>Time: 17:30 Hrs (IST)</p> <p>The Employer will open all the Bids received (except those whose original documents were not received up-to specified time), including modifications made pursuant to Clause 22 and 24, online and this could be viewed by bidders online. In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.</p>
4.	Vol I, Section II, Clause ITB 34.3, Pg. 28	a) Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: 20% by value of contract Works and not whole of Works or any particular length / stretch	a) Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: 25% by value of contract Works and not whole of Works or any particular length / stretch

5.	Vol I, Section III, Clause 2.4.2, Pg. 40	<p>a) Participation as contractor, joint venture member, management contractor, or subcontractor, in at least one (1) contracts within the last seven_(7) years from 1st April 2008 to 31st March 2015.</p> <p>With a value of at least one contract of at least INR 2500 Million or USD 41.67 Million / two contracts each with the value of at least INR 1500 Million or USD 25 million / three contracts each with the value of at least INR 1000 Million or USD 16.67 million or an equivalent amount in a freely convertible currency that have been successfully and substantially completed and that are similar to the proposed Works within last seven (7) years. The similarity shall be based on the physical size, complexity, methods / technology or other characteristics as described in Part 2, Employer's Requirements. Jetty or Harbour with pile foundation in river / sea or construction of bridge in river executed under BOQ contracts shall also be considered as similar works.</p> <p>*Cost of works of previous years shall be increased by 7% per year based on Rupee value to bring them to 2014-15 price level.</p>	<p>a) Participation as contractor, joint venture member, management contractor, or subcontractor, in at least one (1) contracts within the last seven_(7) years from 1st April 2008 to 31st March 2015.</p> <p>With a value of at least one contract of at least INR 2500 Million or USD 41.67 Million / two contracts each with the value of at least INR 1500 Million or USD 25 million / three contracts each with the value of at least INR 1000 Million or USD 16.67 million or an equivalent amount in a freely convertible currency that have been successfully and substantially completed and that are similar to the proposed Works within last seven (7) years. The similarity shall be based on the physical size, complexity, methods / technology or other characteristics as described in Part 2, Employer's Requirements. Jetty or Harbour with pile foundation in river / sea or construction of bridge / RCC dam in river executed under BOQ contracts shall also be considered as similar works.</p> <p>*Cost of works of previous years shall be increased by 7% per year based on Rupee value to bring them to 2014-15 price level.</p>																										
6.	Vol I, Section III, Clause 2.4.2, Pg. 41	<p>b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:</p> <ul style="list-style-type: none"> • <i>Designing of Jetty or Harbour in river / sea or a bridge in river of minimum INR 3800 Million or USD 63.33 Million</i> • <i>Marine / River civil works involving minimum 1100 mm diameter or equivalent area piles in marine / river conditions.</i> or • <i>RCC well foundation works involving minimum 7000 mm diameter or equivalent area in marine / river conditions.</i> 	<p>b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:</p> <ul style="list-style-type: none"> • <i>Designing of Jetty or Harbour in river / sea or a bridge in river / sea or a RCC Dam of minimum INR 3800 Million or USD 63.33 Million</i> • <i>Marine / River civil works involving minimum 1100 mm diameter or equivalent area piles in marine / river conditions.</i> or • <i>RCC well foundation works involving minimum 7000 mm diameter or equivalent area in marine / river conditions.</i> 																										
7.	Vol I, Section III, Clause 2.6, Pg. 43	<table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th colspan="3">Equipment Type and Characteristics</th> <th rowspan="2">Minimum Number required</th> </tr> <tr> <th>Equipment</th> <th>Minimum Capacity</th> <th>Max. age (years)</th> </tr> </thead> <tbody> <tr> <td>1*</td> <td>Crane (Tyre)</td> <td>100T</td> <td>5</td> <td>1 No.</td> </tr> </tbody> </table>	Sl. No.	Equipment Type and Characteristics			Minimum Number required	Equipment	Minimum Capacity	Max. age (years)	1*	Crane (Tyre)	100T	5	1 No.	<table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th colspan="3">Equipment Type and Characteristics</th> <th rowspan="2">Minimum Number required</th> </tr> <tr> <th>Equipment</th> <th>Minimum Capacity</th> <th>Max. age (years)</th> </tr> </thead> <tbody> <tr> <td>1*</td> <td>Crane (Tyre)</td> <td>100T</td> <td>10</td> <td>1 No.</td> </tr> </tbody> </table>	Sl. No.	Equipment Type and Characteristics			Minimum Number required	Equipment	Minimum Capacity	Max. age (years)	1*	Crane (Tyre)	100T	10	1 No.
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8.	Vol I, Section VII, Schedule J, Pg. 200	<p>Project Completion Schedule</p> <p>During Construction period, the Contractor shall comply with the requirements set forth in this Schedule-G for each of the Project Milestones and the Scheduled Completion Date as shown below Within 15 (fifteen) days of the date of each Project Milestone, the Contractor shall notify the Employer of such compliance along with necessary particulars thereof.</p>	<p>Project Completion Schedule</p> <p>During Construction period, the Contractor shall comply with the requirements set forth in this Schedule-J for each of the Project Milestones and the Scheduled Completion Date as shown below Within 15 (fifteen) days of the date of each Project Milestone, the Contractor shall notify the Employer of such compliance along with necessary particulars thereof.</p>																																																																																																				
9.	Vol II, Clause 1.2.5, Pg. 1-3	<p>Wind</p> <p>The mean wind speed at the project site is found to be in the range of 3 to 6 km/h.</p>	<p>Wind</p> <p>The mean wind speed at the project site is found to be in the range of 17 to 47 m/s.</p>																																																																																																				
10.	Vol II, Clause 1.2.10, Pg. 4	<p>Hydrographic Information</p>	<p>Hydrographic Information (new copy provided)</p>																																																																																																				
11.	Vol II, Clause 1.3.2 vi) f, Pg. 7	<p>Wooden rubbing strip for the protection of edges of berth from rubbing of mooring ropes.</p>	<p>Stainless steel rubbing strip conforming to codal provision for the protection of edges of berth from rubbing of mooring ropes.</p>																																																																																																				
12.	Vol II, Clause 1.3.7, Pg. 8	<p>Stockyard Development</p> <p>The Contractor shall plan and develop proposed Stockyard to facilitate stock piling of coal and stone chips upto 8 m height. The yard level shall be maintained at +37 m MSL within the extents shown in Drawing I-521/ST/1007.</p>	<p>Stockyard Development</p> <p>The Contractor shall plan and develop proposed Stockyard to facilitate stock piling of coal and stone chips upto 8 m height. The yard level shall be maintained at +37 m MSL within the extents shown in Drawing I-521/ST/1007.</p>																																																																																																				

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14.	Vol II, Clause 1.3.11, Pg. 1-9	<p>Storm Water Drainage</p> <p>A Drainage system for carrying the storm water run-off from the terminal area is to be designed and provided. Layout for Drainage is shown in Drawing I-521/ST/1015.</p>	<p>Storm Water Drainage</p> <p>The drainage system for carrying the storm water run-off shall be designed for rainfall intensity of 55 mm/hr at project site location based on iso-pluvial maps of india. Layout for Drainage system is shown in Drawing I-521/ST/1015.</p>																																																						
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16.	Vol II, Clause 2.1.8, Pg. 2-3	<p>Wind Load</p> <p>The wind load on structure is considered as per IS: 875-Part 3. The basic wind speed (Vb) for operational and extreme condition shall be 0.83 m/s and 1.75 m/s respectively.</p>	<p>Wind Load</p> <p>The wind load on structure is considered as per IS: 875-Part 3. The basic wind speed (Vb) for operational and extreme condition shall be 17 m/s and 47 m/s respectively.</p>																																																						
17.	Vol II, Clause 3.7.2, Pg. 55	<p>Contractor Working Area</p> <p>The Employer shall provide land area limited to 2 acres within the Project Site for the</p>	<p>Contractor Working Area</p> <p>The Employer shall provide land area maximum of 5 acres at one / two places</p>																																																						

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18.	Vol II, Clause 4.3.2.1, Pg. 91	For piles Permanent MS casing/Liner upto its required levels shall be provided.	For piles Permanent MS casing / Liner upto its required levels shall be provided but minimum thickness should be 8 mm.																																																
19.	Vol II, Clause 4.4.4, Pg. 100	<p>Disposal of Surplus Excavated Material</p> <p>Subject to provision of this specification all materials arising from site grading activity which are surplus or unsuitable for use in the Works shall become the property of the Contractor and shall be disposed of by him either off the site or to an approved tip-off of if agreed by the Employer on the Site in an approved manner.</p> <p>The Contractor shall propose two sites for disposal of unsuitable or surplus material, one of which shall be specified as having priority and which must be filled before the second is used, together with a separate location where hard debris, such as concrete, kerbing etc. shall be disposed of. The Contractor shall seek approval for all nominated sites from the concerned local authority before work commences.</p>	<p>Disposal of Surplus Excavated Material</p> <p>Subject to provision of this specification all materials arising from site grading activity which are surplus or unsuitable for use in the Works shall become the property of the Contractor and shall be disposed of by him in an environment friendly manner either off the site up to a lead distance of 5 km as agreed by the client or if agreed by the Employer on the Site in an approved manner.</p> <p>The Contractor shall propose two sites for disposal of unsuitable or surplus material, one of which shall be specified as having priority and which must be filled before the second is used, together with a separate location where hard debris, such as concrete, kerbing etc. shall be disposed of. The Contractor shall seek approval for all nominated sites from the concerned local authority before work commences.</p>																																																
20.	Vol II, Clause 6.2.7, Pg. 287	Chutes shall be provided with replaceable type liner plates. Such liner plates shall be of abrasion resistant type or impact resistant type depending on whether the surface is subjected to friction or impact.	Chutes shall be provided with replaceable type liner plates. Such liner plates shall be of abrasion resistant type or impact resistant type depending on whether the surface is subjected to friction or impact. Indicative material for liner can be taken as SS-304.																																																
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b	Type	Fixed																																																	
C	Quantity	4																																																	
D	Location	As per Layout Drawing																																																	
E	MOC	Mild Steel with Liner Plate																																																	
F	Application	To feed Conv. BC-7																																																	
H	Discharge Arrangement	Rod Gate (RG-1/2/3/4)																																																	
I	Capacity, cum	10 cum																																																	
23.	Vol II, Clause	Operating Conditions	Operating Conditions																																																

	7.1, Pg. 290	Mobile Harbour Crane shall be of rubber-tyred, self-contained construction and shall be equipped with a diesel engine as a prime mover for crane operation and travelling. The crane shall be of four-rope construction and shall be designed and equipped for multi-purpose operation like general cargo handling, bagged cargos, heavy lift operation as well as containers with automatic Spreader and bulk handling with suitable four rope grab. Crane will cater to vessels up to 3000 DWT.	Mobile Harbour Crane shall be of rubber-tyred, self-contained construction and shall be equipped with a diesel engine as a prime mover for crane operation and travelling. The crane shall be of four-rope construction and shall be designed and equipped for multi-purpose operation like general cargo handling, bagged cargos (like Fertilizer, Sugar, Cement and Food Grains), heavy lift operation as well as containers with automatic Spreader and bulk handling with suitable four rope grab. Crane will cater to vessels up to 3000 DWT.																
24.	Vol II, Clause 7.2.1.1, Pg. 290	General Cargo Handling The crane shall have a lifting capacity of minimum 15T on hook up to a radius of 20 m from crane centreline.	General Cargo Handling The crane shall have a lifting capacity of minimum 50T on hook up to a radius of 18 m from crane centreline.																
25.	Vol II, Clause 8.1, Pg. 295	Materials for export is fed continuously and uniformly onto the barge loader's receiving chute. The equipment elevates the bulk cargo over the barge's deck to the hatch where it is discharged into the barge's hold. At the discharge, a special telescoping chute, with rotating, pivoting spoon, facilitates even and complete filling of the holds.	Materials for export is fed continuously and uniformly onto the barge loader's receiving chute. The equipment elevates the bulk cargo over the barge's deck to the hatch where it is discharged into the barge's hold. At the discharge, a special telescoping chute, with rotating, pivoting spoon, facilitates even and complete filling of the holds. Telescopic chute shall be motorized type.																
26.	Vol II, Clause 8.4.2, Pg. 296	Main Technical Requirements <table border="1"> <tr> <td>The barge loading conveyor Capacity</td> <td>1200 TPH @1.7T/m³</td> </tr> <tr> <td>Max Lump Size to handle</td> <td>80 mm</td> </tr> <tr> <td>Machine Weight</td> <td>Approx. 55 Tones (without Options)</td> </tr> <tr> <td>Height of feeding</td> <td>4.5 - 5.0m</td> </tr> </table>	The barge loading conveyor Capacity	1200 TPH @1.7T/m ³	Max Lump Size to handle	80 mm	Machine Weight	Approx. 55 Tones (without Options)	Height of feeding	4.5 - 5.0m	Main Technical Requirements <table border="1"> <tr> <td>The barge loading conveyor Capacity</td> <td>750 TPH @1.7T/m³ (1200 TPH @1.7T/ m³ is in future when the system is fully mechanised)</td> </tr> <tr> <td>Max Lump Size to handle</td> <td>80 mm</td> </tr> <tr> <td>Machine Weight</td> <td>Approx. 55 Tones (without Options)</td> </tr> <tr> <td>Height of feeding</td> <td>4.5 - 5.0m</td> </tr> </table>	The barge loading conveyor Capacity	750 TPH @1.7T/m ³ (1200 TPH @1.7T/ m ³ is in future when the system is fully mechanised)	Max Lump Size to handle	80 mm	Machine Weight	Approx. 55 Tones (without Options)	Height of feeding	4.5 - 5.0m
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27.	Vol II, Annexure 1	Annex-1 Geo-Technical Investigation Report_Sahibganj	Appendix-A-GEOTECHNICAL Report-R1 (Attached)																
28.	Vol III, Pg. 1	Grand Summary of cost estimate for phase-1 of terminal at sahibganj <table border="1"> <thead> <tr> <th>BILL NO.</th> <th>DESCRIPTION</th> <th>AMOUNT (in Crores of Rupees)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Site Grading</td> <td>51.88</td> </tr> </tbody> </table>	BILL NO.	DESCRIPTION	AMOUNT (in Crores of Rupees)	1.	Site Grading	51.88	Grand Summary of cost estimate for phase-1 of terminal at Sahibganj <table border="1"> <thead> <tr> <th>BILL NO.</th> <th>DESCRIPTION</th> <th>AMOUNT (in Crores of Rupees)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Site Grading</td> <td>51.88</td> </tr> </tbody> </table>	BILL NO.	DESCRIPTION	AMOUNT (in Crores of Rupees)	1.	Site Grading	51.88				
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		2.	Capital Dredging	4.50			2.	Capital Dredging	4.50				
		3.	Berthing Structures and Approach Trestles	101.43			3.	Berthing Structures and Approach Trestles	101.43				
		4.	Stone Pitching Works	9.65			4.	Stone Pitching Works	9.65				
		5.	Ramps and Retaining Walls	17.25			5.	Ramps and Retaining Walls	17.25				
		6.	Stockyard Development	2.39			6.	Stockyard Development	2.39				
		7.	Buildings	2.56			7.	Buildings	2.56				
		8.	Storage Shed	6.30			8.	Storage Shed	6.30				
		9.	Electrical Works	10.00			9.	Electrical Works	10.00				
		10.	Mobile Harbour Crane	15.50			10.	Mobile Harbour Crane	15.50				
		11.	Barge Loader	4.00			11.	Barge Loader	4.00				
		12.	Front End Loader	6.40			12.	Front End Loader	6.40				
		13.	Conveyor System with Fixed Hopper	28.00			13.	Conveyor System with Fixed Hopper	28.00				
		14.	Road Weigh Bridge	0.50			14.	Road Weigh Bridge	0.50				
		15.	Internal Roads and Vehicle Parking Area	13.66			15.	Internal Roads and Vehicle Parking Area	13.66				
		16.	Water Supply Works	1.00			16.	Water Supply Works	1.00				
		17.	Storm Water Drainage Works	1.00			17.	Storm Water Drainage Works	1.00				
		18.	Sewerage System	1.00			18.	Sewerage System	1.00				
		19.	Fire Fighting System	1.50			19.	Fire Fighting System	1.50				
		20.	Dust Suppression System	2.00			20.	Dust Suppression System	2.00				
		21.	Communication and IT System	1.00			21.	Communication and IT System	1.00				
		22.	Navigation Aids	0.77			22.	Navigation Aids	0.77				
		23.	External /Approach Road	14.00			23.	External /Approach Road	0.00				
		24.	Road over Bridge	38.00			24.	Road over Bridge	0.00				
		25.	Environmental Management Plan (EMP)	1.64			25.	Environmental Management Plan (EMP)	1.30				
			Sub Total	335.93				Sub Total	283.59				
		26.	Contingency @ 3% as per CPWD norms	10.08			26.	Contingency @ 3% as per CPWD norms	8.51				
			Grand Total	346.01				Grand Total	292.10				
29.	Vol III, Clause 1.25, Bill No. 23, Pg. 26	BILL No. 23 Engineering, Procurement of Materials & Construction of External / Approach Road					BILL No. 23 Deleted						
30.	Vol III, Clause 1.26, Bill No. 24, Pg. 27	BILL No. 24 Engineering, Procurement of Materials and Construction of Road over Bridge					BILL No. 24 Deleted						
31.	Vol III, Clause 1.27, Bill No. 25, Pg. 28	Environmental Management Plan (EMP)					Environmental Management Plan (EMP)						
		Component	Item	Unit	Qty.	Rate	Amount	Component	Item	Unit	Qty.	Rate	Amount

		DESIGN AND CONSTRUCTION STAGE					DESIGN AND CONSTRUCTION STAGE							
	Technical Support	<ul style="list-style-type: none"> Environmental Social Impact Assessment Study, Biodiversity Conservation Plan, Preparation of EMP 	Lump sum	-	-			Technical Support	<ul style="list-style-type: none"> Environmental Social Impact Assessment Study, Biodiversity Conservation Plan, Preparation of EMP 	Lump sum	-	-		
	Flora	<ul style="list-style-type: none"> Aftercare and monitoring of plantation 	Lump sum	3500 trees	@100 Rs/Tree			Flora	<ul style="list-style-type: none"> Aftercare and monitoring of plantation 	Lump sum	3500 trees	@100 Rs/Tree		
	Aquatic Fauna	<ul style="list-style-type: none"> Dolphin Conservation 	Lump Sum	-	-			Aquatic Fauna	<ul style="list-style-type: none"> Dolphin Conservation 	Lump Sum	-	-		
	Water	<ul style="list-style-type: none"> Provision of storm water and wastewater management system 	For construction site & For labour camps (2 camp sites)					Water	<ul style="list-style-type: none"> Provision of storm water and wastewater management system 	For construction site & For labour camps (2 camp sites)				
		<ul style="list-style-type: none"> Construction of soak pits at construction sites & labour camps 	Per site estimated three						<ul style="list-style-type: none"> Construction of soak pits at construction sites & labour camps 	Per site estimated three				
		<ul style="list-style-type: none"> Provision of clean drinking & domestic water facility at labour camps and construction site 	Per month for 30 months						<ul style="list-style-type: none"> Provision of clean drinking & domestic water facility at labour camps and construction site 	Per month for 30 months				
	Health	<ul style="list-style-type: none"> Health checkup camps for construction workers 	mps	ar	Lakh / camp			Health	<ul style="list-style-type: none"> Health checkup camps for construction workers 	mps	ar	Lakh / camp		
	Environmental Monitoring in the construction phase	<ul style="list-style-type: none"> Terrestrial and Aquatic Fauna 	Per season (Once in six month)					Environmental Monitoring in the construction phase	<ul style="list-style-type: none"> Terrestrial and Aquatic Fauna 	Per season (Once in six month)				
		<ul style="list-style-type: none"> Ambient Air Quality 	Per monitoring for 30 months (Once in two month)						<ul style="list-style-type: none"> Ambient Air Quality 	Per monitoring for 30 months (Once in two month)				
		<ul style="list-style-type: none"> Surface Water Quality 	For upstream & downstream (Once in month)						<ul style="list-style-type: none"> Surface Water Quality 	For upstream & downstream (Once in month)				
		<ul style="list-style-type: none"> Drinking Water Quality 	Once in month						<ul style="list-style-type: none"> Drinking Water Quality 	Once in month				
		<ul style="list-style-type: none"> Noise & Vibration 	Per monitoring for 30 months (Once in month)						<ul style="list-style-type: none"> Noise & Vibration 	Per monitoring for 30 months (Once in month)				
		<ul style="list-style-type: none"> Soil Quality, Erosion & Siltation and River Bed Sediment 	Per Six months						<ul style="list-style-type: none"> Soil Quality, Erosion & Siltation and River Bed Sediment 	Per Six months				

		SUB TOTAL (DESIGN AND CONSTRUCTION STAGE)		SUB TOTAL (DESIGN AND CONSTRUCTION STAGE)	
		OPERATION PHASE		TOTAL OF BILL NO. 25: ENVIRONMENTAL MANAGEMENT PLAN (EMP) CARRIED OVER TO GRAND SUMMARY	
Monitoring of performance indicators	<ul style="list-style-type: none"> Terrestrial and Aquatic Fauna including surveillance audit 	Once in six months for 3 years			
	<ul style="list-style-type: none"> Ambient Air Quality 	Per monitoring (Once in six month) for 3 years			
	<ul style="list-style-type: none"> Surface Water Quality 	For upstream & downstream (Once in quarter) for 3 years			
	<ul style="list-style-type: none"> Ground Water /Drinking Water Quality 	Once in quarter for 3 years			
	<ul style="list-style-type: none"> Noise & Vibration 	Per monitoring (Once in quarter) for 3 years			
	<ul style="list-style-type: none"> Soil Quality, River Bed Sediments, Soil Erosion & Siltation 	Once in six months for 3 years			
		SUB TOTAL (OPERATION PHASE)			
		TOTAL OF BILL NO. 25: ENVIRONMENTAL MANAGEMENT PLAN (EMP) CARRIED OVER TO GRAND SUMMARY			