

No.	該当ページ	DFR 反映内容					
25	DFR 11-145 ページ	Table 11.1-98 抜粋					
		Item	Plan-0	Plan-1	Plan-2	Plan-3 (Selected)	
		Vegetation	No issues	There are some trees and shrubs in the site.	There is no vegetation in the site.	Same as Plan-1.	
26	DFR 11-149 ページ	Table 11.1-99 抜粋					
		Item	Plan-1	Plan-2	Plan-3 (Selected)	Plan-4	Plan-5
		Environmental & social consideration	Some adverse impacts on subsidence of the ground and availability of groundwater around the Project site will be concerned.	Adverse effects on surrounding environment will be the smallest because the river is large.	Same as Plan-2.	Adverse effects on environmental aspect will be bigger than Plan-2, because the river is small.	Adverse effects on environmental aspect will be bigger especially for water quality because the lake is closed water area.

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			Adverse effects on social aspect will be smallest because the pipeline is only for discharge and length is the shortest.	Adverse impact on social aspect will be the biggest because the length of pipeline is the longest and will cross 64 irrigation outlets. Rural narrow road adjacent to pipeline will be closed to traffic unavoidably during construction.	Adverse impact on social aspect will be smaller than Plan-2 due to its length of pipeline and number of irrigation outlets to be crossed (25). Road will not be closed to traffic.	Adverse impact on social aspect will be the second smallest, due to its length of pipeline.	Adverse impact on social aspect will be the third smallest, due to its length of pipeline.
28	DFR 11-146	Table 11.1-98 抜粋					
			Item	Plan-0	Plan-1	Plan-2	Plan-3 (Selected)
			GHG	No emissions	It is unavoidable to emit GHG. However, the emission amount will be fewer than the facilities which have no combined cycle system.	Same as Plan-1.	Same as Plan-1.

		Comparative Conclusion	<p>This plan cannot meet the increasing electricity demand. Therefore, economic development will be obstructed.</p> <p>Moreover, there is a risk that the demand will be met by the construction of other power plants which have lower efficiency and higher environmental load.</p>	<p>Plan-1 has the second least environmental and social adverse impact, and the plan is not economical compared to Plan-3. The expected adverse impact is not negligible, appropriate mitigation measures should be taken.</p>	<p>Plan-2 has the biggest environmental and social adverse impact, and the plan is not economical compared to Plan-3. The expected adverse impact is not negligible, adequate mitigation measures should be taken.</p>	<p>This plan is selected. Plan-1 and Plan-3 have less environmental and social adverse impact, Plan-3 is better among them because Plan-1 has larger adverse impact from ancillary facilities improvement and Plan-3 is the most economical. However, the expected adverse impact is not negligible, appropriate mitigation measures should be taken.</p>
29	DFR 11-153 ページ	Table 11.1-102 抜粋				
		Item	Plan 1	Plan 2 (Selected)		
		Technical aspect	<p>Approximately 10 times water will be required compared with Plan 2. Due to the usage water volume, facilities dealing with water become bigger and maintenance of these bigger facilities including auxiliary machine will be more complex.</p> <p>Assumed water intake: 15,000 m3/day Assumed water discharge: 1,500 m3/day</p> <p>The climate conditions of the site match for the water cooling method.</p>	<p>Facilities dealing with water will become smaller, due to less usage of water. Maintenance of these facilities will be simpler than plan 1.</p> <p>Assumed water intake: 1,500 m3/day Assumed water discharge: 1,350 m3/day</p> <p>Air cooling method conforms to site climate condition. However, plant performance will be lower than that of Plan 1 because of low condenser vacuum.</p>		

41 DFR 11-109 ページ～

Table 11.1 67 List of Recorded Fish Species

No	Scientific Name	Common Name	Family Name	Observation Status	IUCN Status	Rainy Season			Dry Season		
						Project site	Intake Station	Pipeline	Project site	Intake Station	Pipeline
1	<i>Notopterus notopterus</i>	Grey feather back	Notopteridae	Interview	LC		√	√		√	√
2	<i>Gudusia variegata</i>	Burmese River Shad	Clupeidae	Interview	LC		√	√		√	√
3	<i>Salmophasia sardinella</i>	Sardinella razorbelly minnow	Cyprinidae	Interview	LC		√	√			
4	<i>Raiamas guttatus</i>	Burmese trout	Cyprinidae	observed	LC		√	√		√	√
5	<i>Amblypharyngodon atkinsonii</i>	Burmese carplet	Cyprinidae	Interview	LC		√	√		√	√
6	<i>Osteobrama belangeri</i>	Manipur Osterobrama	Cyprinidae	observed	NT		√	√		√	√
7	<i>Osteobrama cunma</i>	Cunma osteobrama	Cyprinidae	observed	LC		√	√		√	√
8	<i>Puntius chola</i>	Swamp barb, chola barb	Cyprinidae	observed	LC	√	√	√	√	√	√
9	<i>Puntius gonionotus</i>	Silver barb	Cyprinidae	Interview	LC		√	√		√	√
10	<i>Puntius sarana</i>	Olive barb	Cyprinidae	Interview	LC		√	√			
11	<i>Cirrhinus mrigala</i>	Mrigal	Cyprinidae	Interview	LC		√	√			
12	<i>Catla catla</i>	Catla	Cyprinidae	Interview	LC		√	√			
13	<i>Labeo angra</i>	Carplet	Cyprinidae	observed	LC		√	√		√	√
14	<i>Labeo calabasu</i>	Carp	Cyprinidae	Interview	NE		√	√			
15	<i>Labeo rohita</i>	Rohu	Cyprinidae	observed	LC		√	√		√	√

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		16	<i>Labeo stoliczkae</i>	Minor Carp	Cyprinidae	Interview	NE	√	√			
		17	<i>Lepidocephalichthys berdmorei</i>	Burmese loach	Cobitidae	Interview	LC	√	√			
		18	<i>Mystus beekeri</i>	Day's mystus	Bagridae	Interview	LC	√	√			
		19	<i>Mystus cavasius</i>	Genetic mystus	Bagridae	Interview	LC	√	√			
		20	<i>Mystus leucophasis</i>	Sittang mystus	Bagridae	observed	LC	√	√		√	√
		21	<i>Mystus pulcher</i>	Striped dwarf catfish	Bagridae	Interview	LC	√	√			
		22	<i>Hemibagrus menoda</i>	Menoda catfish	Bagridae	Interview	LC	√	√			
		23	<i>Hemibagrus microphthalmus</i>	Long whisker catfish	Bagridae	Interview	LC	√	√			
		24	<i>Ompok bimaculatus</i>	Indian butter catfish	Siluridae	Interview	NT	√	√		√	√
		25	<i>Ompok pabo</i>	Pabo catfish	Siluridae	Interview	NT	√	√			
		26	<i>Wallago attu</i>	Boal	Siluridae	observed	NT	√	√		√	√
		27	<i>Clupisoma prateri</i>	Brumese garua	Schilbeidae	Interview	LC	√	√			
		28	<i>Eutropiichthys vacha</i>	Batchwa vacha	Schilbeidae	observed	LC	√	√		√	√
		29	<i>Gagata cenia</i>	Indian gagata	Sisoridae	Interview	LC	√	√			
		30	<i>Bagarius bagarius</i>	Gangetic goonch	Sisoridae	Interview	NT	√	√			
		31	<i>Bagarius yarrellii</i>	Goonch	Sisoridae	Interview	NE	√	√			

		32	<i>Claris batrachus</i>	Walking Catfish	Clariidae	Interview	NE		√	√			
		33	<i>Arius acutirostris</i>	Salween catfish	Ariidae	Interview	LC		√	√			
		34	<i>Rhinomugil corsula</i>	Corsula mullet	Mugilidae	Interview	LC		√	√			
		35	<i>Xenentodon cancila</i>	freshwater garfish	Belonidae	observed	LC		√	√		√	√
		36	<i>Macrognathus aral</i>	One-stripe-spiny-Eel	Mastacembelidae	observed	LC		√	√		√	√
		37	<i>Macrognathus zebrinus</i>	Spiny-eel	Mastacembelidae	Interview	LC	√	√	√	√		
		38	<i>Mastacembelus armatus</i>	Tire-track-spiny-eel	Mastacembelidae	Interview	LC		√	√			
		39	<i>Parambassis anga</i>	Glass fish	Ambassidae	observed	LC		√	√		√	√
		40	<i>Pangasius pangasius</i>	Nil	Pangasiidae	Interview	LC		√	√			
		41	<i>Silonia silondia</i>	Silong Catfish	Schilbeidae	Interview	LC		√	√			
		42	<i>Sperata aor</i>	Long-whiskered Catfish	Bagridae	Interview	LC	√	√	√			
		43	<i>Oreochromis mossambica</i>	Talipa	Cichidae	observed	LC	√	√	√	√	√	√
		44	<i>Aspidoparia morar</i>	Morar	Cyprinidae	observed	LC		√	√		√	√
42	DFR 11-29 ページ	Table 11.1 21 Target Value for Effluent (Thermal Power)											
		Parameter		Unit	NEQG	WBG Guideline	Target Value						
		Arsenic		mg/L	0.5	0.5	0.5						
		Cadmium		mg/L	0.1	0.1	0.1						
		Iron		mg/L	1	1.0	1						
		Lead		mg/L	0.5	0.5	0.5						
		Mercury		mg/L	0.005	0.005	0.005						
		Oil and grease		mg/L	10	10	10						

pH	S. U. <sup>a</sup>	6-9	6-9	6-9
Temperature increase	°C	<3 <sup>b</sup>	-	<3 <sup>b</sup>
Total residual chlorine	mg/L	0.2	0.2	0.2
Total suspended solids	mg/L	50	50	50
Chromium (total)	mg/L	0.5	0.5	0.5
Copper	mg/L	0.5	0.5	0.5
Zinc	mg/L	1	1.0	1

Table 11.1 22 Target Value for Wastewater, Storm Water Runoff, Effluent, and Sanitary Discharges

Parameter	Unit	NEQG	WBG Guideline	Target Value
5-day Biochemical oxygen demand	mg/L	50	30	30
Ammonia	mg/L	10	-	10
Arsenic	mg/L	0.1	-	0.1
Cadmium	mg/L	0.1	-	0.1
Chemical oxygen demand	mg/L	250	125	125
Chlorine (total residual)	mg/L	0.2	-	0.2
Chromium (hexavalent)	mg/L	0.1	-	0.1
Chromium (total)	mg/L	0.5	-	0.5
Copper	mg/L	0.5	-	0.5
Cyanide (free)	mg/L	0.1	-	0.1
Cyanide (total)	mg/L	1	-	1
Fluoride	mg/L	20	-	20
Heavy metals (total)	mg/L	10	-	10
Iron (total)	mg/L	3.5	-	3.5
Lead	mg/L	0.1	-	0.1
Mercury	mg/L	0.01	-	0.01
Nickel	mg/L	0.5	-	0.5
Oil and grease	mg/L	10	10	10
pH	S. U. <sup>a</sup>	6-9	6-9	6-9
Phenols	mg/L	0.5	-	0.5
Selenium	mg/L	0.1	-	0.1
Silver	mg/L	0.5	-	0.5
Sulphide	mg/L	1	-	1
Temperature increase	°C	<3 <sup>b</sup>	-	<3
Total coliform bacteria	MPN <sup>d</sup> /100mL	400	400 <sup>c</sup>	400

			Total Nitrogen	mg/L	-	10	10
			Total phosphorus	mg/L	2	2	2
			Total suspended solids	mg/L	50	50	50
			Zinc	mg/L	2	-	2
43	DFR 11-403 ページ	Table 11.2-5 Size of Land to be Used by the Project 抜粋					
			No.	Facility	Acquisition Type	Area to be acquired at Each Land Use	
			1	Water Intake Facility	Permanent Acquisition	Village Land: 0.020ha	
63	DFR 11-400 ページ	Table 11.2 3 Gap Analysis between JICA Guidelines and Myanmar Regulations 抜粋					
		8.	When consultations are held, explanations must be given in the form, manner, and language that are understandable to the affected people. (JICAGL)	None	No law specifically mentions the requirement of holding a consultation in understandable manner for PAPs.	A consultation with PAPs is held with understandable language, expression and explanation methods for them.	