Environmental Impact Assessment Professor. Harshit Sosan Lakra Department of Architecture and Planning Indian Institute of Technology, Roorkee Lecture - 60 EIA Case Study – Development of Water Aerodrome, Andaman and Nicobar (Part II)

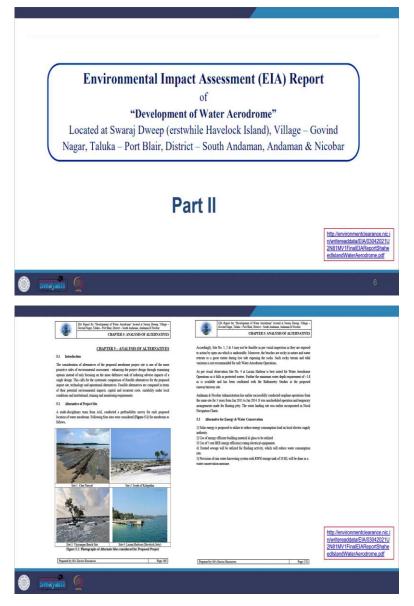
Welcome to the course Environmental Impact Assessments and today is the last lecture of this particular course.

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Coverage	
 Case study - Part II – Development of Water Aerodrome, Andaman & Nicobar 	
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We are going to take part 2 of the case study which we are already doing, we are looking at the Water Aerodrome of Andaman and Nicobar. So, we are looking at that particular case. In this particular session, while you are looking at this case, you review all the aspects, culminate all the aspects that you have learned in this particular course beginning from the environmental status to how we evolved in the understanding of EIA, and then what different legislations standards are involved, and different methods which are involved in the process and about the public participation, and what kind of issues we are still facing.

So, while we are looking at this EIA, you also see red as the CIA stands, and then you try to see how advanced or what are the areas where improvements can be made with this particular case. So, this case also had certain kinds of observations and obstructions that were there related to its adequacy and inadequacy. So, you can also reflect on it and think with the wider exposure which you have now.



So, in this part 2, we are going to continue with where we had stopped. So, we are going to look at chapter 5 from the CIA report, where we are looking at the analysis of alternatives, so, how different alternatives were looked into for this particular project. So, while looking at the alternatives, in this particular case, the team looked into alternative project sites.

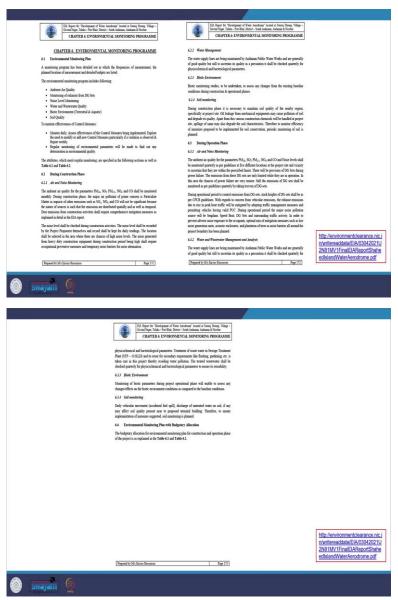
So, you see, different project sites, which they looked into, they have identified those projects site, site 1, site 2, site 3 and site 4, and then they evaluated for its feasibility, and what kind of impact it would have. So, you see that in the narrative, the right side numbers 1, 2, and 3 may not be feasible as per visual inspection, as they are exposed to action by the open sea which is undesirable.

Moreover, the beaches are rocky in nature and water retreats to a great extent during low tide acts causing the rocks, such rocky terrain and tidal variation are not recommended for safe water aerodrome operations. So, the alternatives that were taken here were not considered safer options for the purpose for which the project had to be undertaken. So, think about what kind of alternatives are being evaluated here for comparison purposes.

So, looking at the next alternative, which they looked into was alternative for energy and water conservation. So, for this, they looked into the solar energy option for supplying electricity, and then also the use of energy-efficient, building materials and then also looking at what kind of rating they would have in their functioning and how they would also recycle salvage for production of, like what kind of sewage treatment they would undertake to reduce the consumption of water and then also how they would harvest rainwater for protection or conservation of water.

So, that was about the alternative. So, you can discuss things on how the alternatives have to be dealt with to what intensity, and what choices should be covered.

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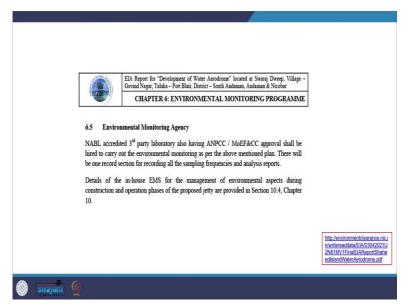
Further, they present the environmental monitoring program here. So, how are they going to monitor the performance environmental performance of the project? So with that, phase-wise, they are giving a proposal where they look into the construction phase, so during the construction phase, how they would look at the air and noise monitoring, how they are going to look at the water management, how they are going to look at the biotic environment, and how they are going to undertake soil monitoring.

So, they have mentioned during the construction period, they are going to monitor all that to avoid impact on the environment here. Then during the operation phase again they would be monitoring all these air and noise, water, wastewater, and then biotic environment soil monitoring and then also they have allocated funds for environmental monitoring plan. So, they have allocated funding for that. So, you can see what range of funding it has.

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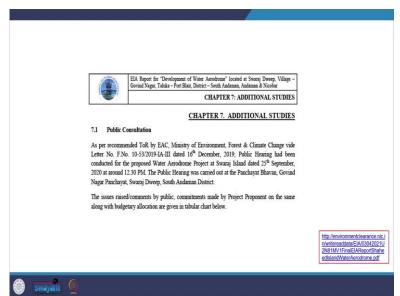


So, you can see the total funding you can see 3.34 lakhs per annum year they would spend somewhere around 3 lakhs every year for all kinds of air quality checks, noise level checks, drinking water boiling, check marine water, checks during the construction phase, and then likewise, they have the monitoring plan for operation phase so which has like 11 lakh 11 plus lakh for every year they would be spending on monitoring all these environment.



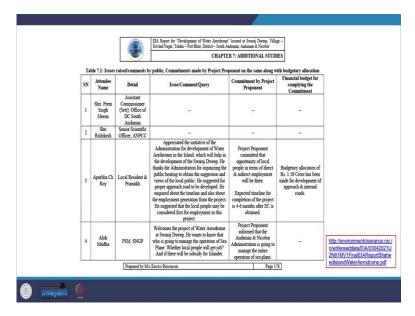
The environmental monitoring agency that will be involved has mentioned that they would be using a certified laboratory which will be approved by MoEF&CC. So, approved by them, they would be pointing them to monitor the environmental parameters in and around the project site as per their proposal.

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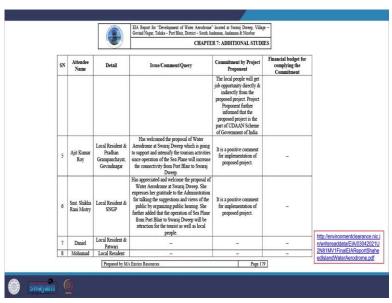
So, in this project, you will see that they had also undertaken additional studies because you understand the unique nature of the project here. So, in the public consultation part, you see that as per the ToR, they had to undertake a public hearing to be conducted for the proposed project. And when and where they did it they documented that and public hearing was carried out in the following places Panchayat Bhavan, Govind Nagar Panchayats, Swaraj Dweep, South Andaman district.

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So, all the issues that were raised and the comments raised by the public, the commitments by the project proponents on the same have been aligned with the budgetary allocation. So, whatever input came, they incorporated and also made budgetary allocations for that. So, you can see the list of issues that are raised, and the comments of the project proponent here. So, given the demographic profile, it is, you can see who all are the attendees.

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So, we do not get to see the male and female participants here as well as indigenous peoples' participation here, but then that is given here. So, you can think about it, when you look at the demographic profile, how the participants could be but prior there are a lot of practical limitations which come in but you can always review how the participation has been undertaken.

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9	Sandeep Dhamne	Principal Consultant – Feedback Infrastructure Pvt. Ltd.	-	-	-	
10	Timir Shah	Environmental Consultant – Enviro Resources	-	-	-	
11	Anil Kuma Mridha	Local Resident	-	-	-	
12	Chandra	Local Resident	-	-	-	
13	M Vallapa	Local Resident	-	-	-	-
14	Jiten	Local Resident	_	-	-	-
	Gharami Bikash Das		-	-	-	-
16	Naba	Local Resident	-	-	-	
17	Sukanta	Local Resident	-	-	-	- -
18	Baskar Da Juleta Ekta			-	-	http://em
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So, you can see different attendees who have attended here and then what kind of inputs they have got. So, mostly, you see that there are a lot of positive reviews which they have got.

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SN	Attendee Name	Detail	Issue/Comment/Query	Commitment by Project Proponent	Financial budget for complying the Commitment]
				The local people will get job opportunity directly & indirectly from the proposed project. Project Proponent further informed that the proposed project is the part of UDAAN Scheme of Government of India.		-
5	Ajit Kumar Roy	Local Resident & Pradhan Grampanchayat, Govindnagar	Has welcomed the proposal of Water Aerodrome at Swaraj Dweep which is going to support and intensify the tourism activities since operation of the Sea Plane will increase the connectivity from Port Blair to Swaraj Dweep.	It is a positive comment for implementation of proposed project.	-	-
6	Smt. Shikha Rani Mistry	Local Resident & SNGP	Has appreciated and welcome the proposal of Water Aerodrome at Swaraj Dweep. She expresses her graindue to the Administration for talking the suggestiones and views of the public by organizing public hearing. She firsther added that the operation of See Plane from Port Blair to Swaraj Dweep will be attraction for the tourist as well as local people.	It is a positive comment for implementation of proposed project.	-	http://environmentclearance.ni
7	Daniel	Local Resident & Patwari	-	-	-	 http://environmentciearance.nic n/writereaddata/EIA/03042021 2N81MV1FinalEIAReportShah
8	Mohamad	Local Resident	0	-		edislandWaterAerodrome.pdf

As you can see Ajit Kumar Roy, a resident, and Pradhan, so, he has welcomed the proposal for the Water Aerodrome it is going to support and intensify tourism activity, and the operation of seaplane will increase the connectivity of Port Blair to Swaraj Dweep, so it was a positive comment which has been documented here. So, we can see here one of the comments from Praveen Baba Ali.

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20	Probin Bawali	Local Resident	Wants to know whether due to operation of the Sea Plane the fishermen of Swaraj Dweep will be affected.	Project Proponent informed that due to the operation of the sea plane services neither fishing activity nor any fishermen is going to be affected.	-	
21	Sandeep Bairagi	Local Resident	-	-	-	
22	Shiba Pada Mondal	Local Resident	-	-	-	
23	Manash Kr. Bala	Local Resident	-	-	-	
24	Manmona	Local Resident	-	-	-	1
25	Tulsi Raha	Local Resident	-	-	-	1
26	Manoranjan Mondal	Local Resident	-	-	-	
27	Deepmala Joydhar	Local Resident	-	-	-	
28	Sameer Mistry	Local Resident	-	-	-	
29	Deepankar Chakraborty	Local Resident	-	-	-	
30	Kartick Mondal	Local Resident	-	-	-	http://environment
31	Sandeep Sarkar	Local Resident	-	-	-	n/writereaddata/El 2N81MV1FinalEIA
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					Prepared by M	's Enviro Resources	Page 18	2	

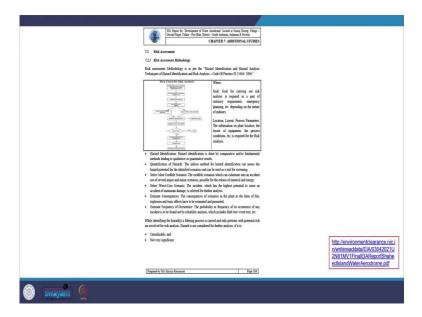
Baba Ali, here resident wants to know whether due to the operation of the seaplane, the fisherman of Swaraj Dweep will be affected. So, the project proponent informed us that due to the operation of the seaplane service, neither fishing activity nor any fisherman is going to be affected. So, that was the comment of the project proponents. Though, we are not aware of the details of it, that is what the concerns of the local people came to and how that has been responded to. Those details are not here at this moment, what we can see from here so that not many comments have been raised by the Look Will residents.

(Refer Slide Time: 10:00)

			EIA Report for "Development of Water Aeroo Govind Nagar, Taluka – Port Blair, District – So	rome" located at Swaraj Dweep, Villaş ath Andaman, Andaman & Nicobar	e -	
			CHA	PTER 7: ADDITIONAL STUD	ES	
SN	Attendee Name	Detail	Issue/Comment/Query	Commitment by Project Proponent	Financial budget for complying the Commitment	
	Mallick					
47	Manick Chakraborty	Local Resident	-	-	-	
48	Manotosh Mridha	Local Resident		-	_	
49	Ajay Kumar Mondal	Local Resident	-	-	-	
50	Dhananjay Mondal	Local Resident	-	-	-	
51	Nanigopal Singh	Local Resident	-	-	-	
Loca	Singh al people have s loyment to be g	hown a positive att enerated, better con	- tude towards proposed project & have wel nectivity to Port Blair & boost to local tour lic Hearing are as provided as <i>Annexure 5</i>	comed the proposed project in ant ism activity.	-	
					n/writer 2N81M	nvironmentole readdata/EIA/ IV1FinalEIARe dWaterAerod

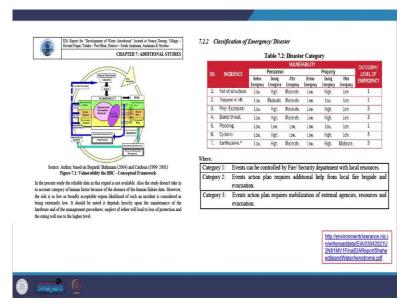
So, you also see where the public participation is happening, how mature the people are to raise those concerns and arguments or concerns of their people. So, that also you as a learner of this course need to understand that. So, public participation is what we have seen here.

(Refer Slide Time: 10:24)



So, next we see is the risk assessment, so, risk assessment methodology, what they have adopted here. So, we have also studied the risk assessment methodology. So, you can see the flowchart here, for risk analysis, how they are identifying the hazard, what is how they are doing the quantification of the hazard, and what is the credible scenario, worst scenario, and estimation of consequences and frequency of occurrence, so, all that has been done here.

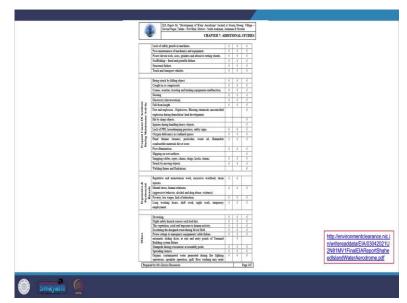
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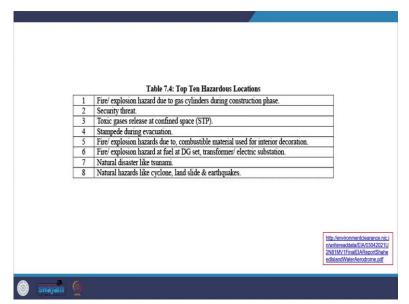
	EIA Report for "Development of Water Aesodouse" Incates Ground Nagar, Tahila – Port Blar, Dattin – South Andenan, CHAPTER 7: A	Andenan	& Net	ber	
Catego	ry 3: Events action plan requires mobilization of external exacution.	agencie	10100	aces and	
	Table 7.3: Preliminary Bazard Analysis		_	_	
	IDENTIFICATION OF BAZARD CHECK LIST		SE OF		
		2	ROJU	T	
	Raned	Construction	Operation	Past Operation/ Decommissioning	
	Cicline		4	-	
2.4	Earth realiz			1	
Manual	Land slide		1		
20	Flooding - heavy rain, Nalla flooding.	4	¥.	¥.	
100 m	Tutani.	1.6	4	÷.,	
	Naw	171	1		
12	Radiation (UV, radioactive materials).		1		
Physical Hazards	Extreme temperatures.	4			
23	Vibration.	1	4	4	
	Epidemics' communicable diseases by perts, insects, rodents etc.	11			
4	apoenacu communicate doenes ty pert, morts, robent etc. Toxic marine organism near coastal segion.		-	1	
- In the second s	Borey beev animaly stake bites.	1.2	4	1	
-4	Occupational health hazards at STP. Diesel tank	2	1	1	
				_	
	Transformer fire/ explosion		4		
22	Power transmission tower has wire snap' up routing tower in		4	4	
Destrical	escape route. Lightening strike.	-	2	4	
22	Eigeneueg seize. Fares dae to Skort carcuit.				
-	Prints une sci sacri carsas. Power cutage.	121	1	4	
				-	
	AC, Refrigenton, Air coulitionen units - fire' explosion.	8			
1	Diesel for at DG set.	1.4	4		
1	Foul oder at STP.		4		
dious Substan	Hazardous wante uzcontrolled disposal - batteries, Asbestos containang - Dust, Olam, Plantics, Steel.	1	4	4	
11	Hazardous waste saccestrolled doposal- e-waste hattenes.	14	1	÷.	
14	Industrial accidents, tonic gas release, fire' explosion,	3	N.	4	
4	Smoke in fire, acid gases in fire, dumping yard.	1	4	÷.	http://environmentclearance
lass last	Transport accident at express way	4	4		n/writereaddata/EIA/03042
1	Vehicles accidents, fire.			4	
1941 - 1942 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 -	Tonic gas release (Carbon Mononide) at parking lot.	8	4	4	2N81MV1FinalEIAReportS
2	Failure of machinery and equipment.	131	1	¥.	edislandWaterAerodrome.
		1.4			samma valenderouronne.
	d by M's Enviro Resources			Page 186	

So, you can see the disaster category they have created the table here and they have also identified the vulnerability here. So, you see here the primly hazard analysis that they have done here, so, which has also been presented here. So, natural causes, physical hazards, biohazards, electrical hazards, hazardous substances, and waste. So, the phase of the project in which that is likely to happen, so, that all has been ticked here. So, that's very relevant here for this particular case. So, that study has been undertaken here.

(Refer Slide Time: 11:34)



So, you see how they are looking at all the aspects of what possibilities are there of his risk, what risks are there in this particular case. So, you can see all that during the operation construction and post-operation phase.



So, they have identified the top 10 hazardous locations. So, you can see fire explosion hazards due to gas cylinders during the construction phase. The security threat is toxic gases, then you can see stampedes during evacuation and fire explosion hazards, fire explosions have added fuel at DG sets natural disasters like tsunamis, and natural hazards like cyclones, landslides, and earthquakes.

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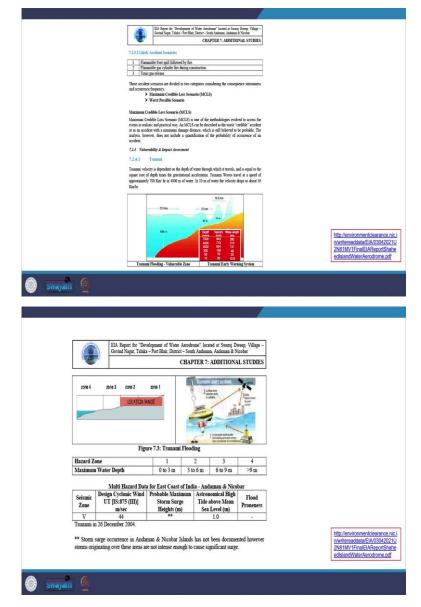
	C	APTER 7: ADDITIONAL STU	£S	
Tal	le 7.5: Safety Informat			
. 🖨 📟	SAVETY INFOR	L ACT FINE IN THE REAL OLD		
- PHYSICAL PROPER		OTHER CHARACTERISTICS		
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So, they also created a safety information sheet and how they are going to keep a record of that. So, further, you see they have also created all kinds of information about what diesel they are using ingredients and diesel and so on.

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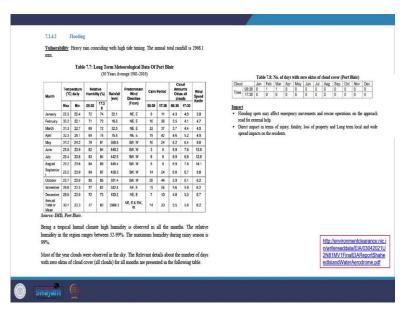
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	Figure 7.2: Harman & Harmer & Harmer Museum Lectations Map D.G. Set (For bucking dering power failure) 25% kVA STP (gre-fabricated) 6 KLD(=46XLD Phase 2)	
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	risk analysis matrix, providing an indication of the magnitude or significance of the impact (ranging from low high to priority). The adopted risk assessment matrix is presented in the	edislandWaterAerodrome.pd
i swajan 🧕	Indexe (b)r.	
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And then they have done all kinds of hazard potential location mapping, so, which we had seen, so, they have undertaken that kind of mapping here, you can also see risk assessment matrix here. So, you see the likelihood of any kind of risk happening. So, A to E, you can see will occur likely to occur, should occur, could occur, the likely consequences, insignificant minor moderate major catastrophic.

So, you see how they have analyzed it here and then all likely accident scenarios and then also they have analyzed the vulnerability and impact assessments are related with tsunami and all kinds of flooding which can happen. So, that has been seen.

(Refer Slide Time: 13:41)



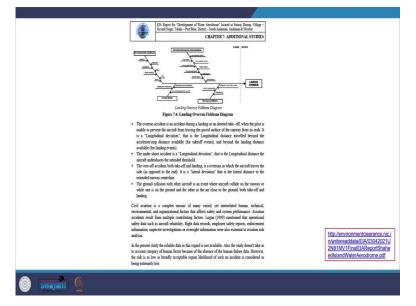
Then, you also see that they have looked into the time series data concerning Port Blair. So, they have looked into 30 years of average 1981 to 2010 data to understand how the flooding vulnerabilities there concerning heavy rain coinciding with high tide timing.

(Refer to Slide Time: 14:06)

7.2.4.3 So Plane A scaphare is a fund winged aerophane which is designed for taking off and handing on water and includes amplithans operating as sea planes. A scaphare is in the unique position of being able to provide air service which is spaceably impossible with any other kind of cardt. It offers the public the speed of the anglane with the unity of the boat.	**4.4 Aircraft Crash Incidents Aircraft incidents due to bird strike. Hazards pooed to infrastructure and surrounding areas sprimary consequences of aircraft crash incidents on the ground include Property damage, inter or perhaps finitines. An aircraft crash could also cause an emergency incident at the sland or a bush fire in the adjacent welfands.
There are two main types of explaine. Stype boos (often cilde mill sequence) and floatplates. The bottom of a flying borts forcharge is not mitching part. This is usually explored with usualle floats near the wapping cilder using to floats. The hild of flying host holds the coree, passeques, and eagy, it has many feature is common while hild is shape robos.	Methods for estimating inforvatal risk require three basic quantities: i The annual probability that a crash occurs near a given ainport (crash frequency). Crash Frequency is estimated from the annual aircraft movements multiplied by the applicable crash rate for each aircraft type; ii The distribution of these crashes with respect to the airport location (crash location) and The size of the crash area and the lethality within this area (crash consequence).
Valenzhiliz: Contact collinen, prounding cross wird, his reds/ stylen ste. Irading to unidap on water. The outer of hypothemia, and in associated effects, sheing and following prolonged mamerisis in old water, and the immediate toxicity and requiritary effects on antivous in the water following the agression of flowing field and only and their associated uppers, and fire suppressant forum, powders and gases.	Landing versiloot; Landing verse off; Take-off verse off; Landing versen; Take-off oversus; Ground collision with other aircraft in landing; and Ground collision with other aircraft in take-off; Pressent br Ms Eartise Resources Page 1977
	International and the second s

So, you also see that they have looked at the seaplane because of that what kind of vulnerability is there, contact, collision, grounding, crosswind hits, hits rocks, what can happen, then you also see aircraft crash incidents also can happen, aircraft incidents due to bird strike as opposed to infrastructure and surrounding areas. So, landing overshoot, landing veers off, taking the year off and all that analysis has been undertaken.

(Refer Slide Time: 14:41)



So, concerning landing, you can see that they have done a fishbone diagram of what possible scenarios can happen.

7.2.4.5 Cyclone Strike		
Vulnerability		
	and neighbouring Islands is from North East and consons period the predominant wind direction is	
Visbility	Number Of Days In The Year	
less than 1 km.	0.5 days	
1 to 4 km, range	30.4 days	
4 to 10 km range	95.4 days	
between 10 to 20 km.	219.4 days	
above 20 km.	39.3 days	
town, kopink, road et. de te high et Dens inspis i tens de ingr, rinder genet inspis i tens de ingr, rinder Structure failige onde gorcient exoptionally henry omfall associated wi low-lyng area. 7.244 Earthquake Scientic Vaherahilty	ion of life and property. dent. infrastructure such as power and communication	
Year	Remarks	
at Port Blaz, Anda		
tumani nu-up le m at Napputinar Islands.	gaitade M ₄ 7.9 in the Bay of Bengal, reported el of 0.16 m at Car Nicobar, 0.3 m at Dablat, 0.3 and 1.22 m at Port Blair in Andaman & Nicobar	http://environmentclearance.nic.
92.5°E. No reliable	gnitule M _{ar} 8.1 in the Andaman Sea at 12.9 ⁹ N, eduts on the resultant Isanamis on the east coast of err is some unverifiable reports, no press reports	n/writereaddata/EIA/03042021U 2N81MV1FinalEIAReportShahe edIslandWaterAerodrome.pdf

And then also, you see in the report they have also done the study of cyclone strike and then they have looked into the vulnerability. So, here you see the visibility and the number of days in the year, what would be the visibility range? So, they have also looked into the vulnerability aspect and what kind of impact it would have concerning cyclone strikes. And then likewise you can see with the earthquake, they have looked into the historical data and tried to understand that as well.

(Refer Slide Time: 15:22)

EA Equat for "Development of Water Annahome" located at Swame Durrey, Wilker -	
Govind Nager, Talaka - Port Blaz, Diereit - South Andensen, Andensen & Nicober	
CHAPTER 7: ADDITIONAL STUDIES	
Impact (Constigated Rick)	
 Direct impact in terms of injury, fitality, stampede during evacuation, loss of property and Long term local and wide strend impacts on the residents. 	
 In Zone III, (moderate nok zone) earthquakes of higher intensity may be felt. Earthquakes 	
that frightens everyone, making it difficult for people to stand. Even people in moving	
vehicles may feel such quakes. Structures/buildings of good design and construction suffer	
slight damage, while poorly designed built ones suffer considerable damages. (*Intensity:	
VII).* Intensity is here considered a classification of the sevenity of the ground shaking on the basis of observed effects in a limited area and is measured in the MSK Scale ranging.	
form I to XII.	
* Adopted From National Disaster Management Guidelines, Management of Earthquakes,	
Setonic Zone Map of India (IS: 1899, 2002)	
7.2.4.7 Land Slide	
Mild rolling topography, dense mass of canopy trees alongrly raising in the coast to a height of	
30 – 40 meters, humid climate and high intensity of rainfall are the characteristics generally associated with Swaraj Dweep.	
associated with Swaraj Dweep.	
Currently project site is covered with vegetation of \$7 nos. of plants with no elevation	
difence	
Potential Land Slide Causes	
 Interference with, or changes to, natural draimage. Whentions caused by earthquide. 	
7.2.4.8 Fire and Explosion	
Fuels handled at site are HSD for DG set also flammable gas cylinder during construction phase.	
Table 7.9: Applicability of "The MSIHC Rules, 1989"	
Group Max, Storage Capacity (MT.) 5.1 Flammable Gases. < three doubt	
5.3 Very Highly Flammable Lapads: Chemicals laving flash point ≤ 23°C &	
boling point < 35°C. 5.5 Highly Flammable Liquids: < farehold*	
Chemicals having 23 ⁴ C < flash point ≤ 60 ⁴ C. 5.6 Flammable Laguds: < threshold*	
Chemicals having 60°C < flash point < 90°C.	http://www.commentation.com
*Control used: "The Manufacture Storage and Import of Hazardous Chemicals Rules, 1989". At use hazard occurrence may result in.	http://environmentclearance.
 Fre ador exploren. 	n/writereaddata/EIA/0304203
 Leakage of flammable material. 	2N81MV1FinalEIAReportShi
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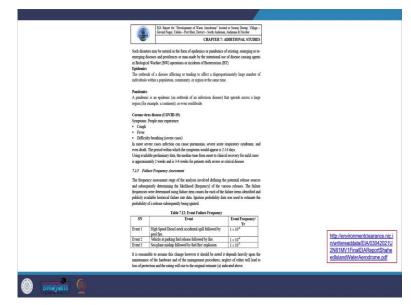
And then you can see here a landslide, the same way you can see a firing explosion. So, what are the rules that they have to abide by, that have been studied here?

(Refer Slide Time: 15:34)

	Table 7.10:Vulnerable Zone for Bomb Blast Bomb Threat Evacuation Guide	
	THREAT DESCRIPTION EXPLOSIVE QTY MIN (m) MAX* (m)	
	Poe Bomb Small 300g 80 575	
	Por Borth Medium 500g 300 860	
	Por Bomb Large 25mg 130 1115	
	Ppr 60mb Large 234g 130 1,135	
	Bretzan-Suitzane 22kg 285 1,520	
	CompactSadan 230kg 270 1,915	
	Note: The distance estimates are indicative and for initial evacuation.	
	Impact Direct impact on occupants in terms of injuries, trauma and fatality likely during evacuation.	
	Long term trauma on the residents.	
	 Stampele during evacuation. 	
	7.2.4.10 Texic Gas Release	
	A typical sewage treatment plant consists of AMOOC	
	the following	
	> Biological treatment Decem	
	Filtration Studye Treatment	
	Manual State Second	
	Figure 7.5: Typical STP (Sewage Treatment Plant) Process	
	Mentification of Hazards Bazards Confined Space Chlorine Fall Sim Electric Fee	
	Mentification of Enzarch Enzarch Confined Space Confined Space Space Fire Orypes Rightspace Combined Space pathog Shock Fire Deficiency Stabilize Gas printing Shock Fire	
		-
	Leartine: On - Sine; Spite tails:	http://environmentclearance.
	Closed drama	n/writereaddata/EIA/030420
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	Prepared by M's Earson Resources Page 202	04-
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Oniver - Ma		
	Confuse Space Barrete	
-Carves - Mr	Confined Space Records Possible haureds on confined upon actuale Oxyges deficiency. Hydrogen Salphade poissing and darger of controllable grans.	
- Carlos - 10	Possible hazards in confined space include Oxygen deficiency, Hydrogen Sulphide poisoning, and danger of combustible gases.	
	Possible hazards in confined space include Oxygen deficiency, Hydrogen Sulphide poisoning, and danger of combustible gases.	
	Possible hazards in confined space include Oxygen deficiency, Hydrogen Sulphide poisoning, and danger of combustible gases.	
	Pouble hands in confined upor include Oxygen deficiency. Hydrogen Sulphide poisoning, and larger of combosible genes. Relat of Oxygen Deficiency: • When oxygen constraintion deep below 17%, durings of heards may oxen • When oxygen constraints makes private and the left.	
	Pouble harmfs in confined space include Oxygen deficiency, Hydrogen Solphisk priorang, and darger of combushle passe. Bits and Oxygen Deficiency Witten engings momentation deep below 17%, Anternet frame tange occur. Witten the oxygen concentration deep below 10%, death may result.	
	Posibile hunch in conflorid upor indude Organ deficiency. Hydrogen Solphiake priorating and danger of combinable graves. Efficiency of the comparison of the conflorid and concert in the comparison data of the Pick data set of the comparison of the context of the comparison data set of the Pick data set of the comparison of the context of the comparison data set of the Pick data set of the context of the comparison data set of the Pick data set of the context of the comparison data set of the Pick data set of the context of the comparison data set of the context of the context of the context of the comparison data set of the context of the conte	
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	Owner between in conference process studies Corgan deficiency. Hydrogen Solphiake prosening and danger of combundle proces. Bak of Ocygan Deficiency • Winn corpus concentions days below 17%, datamess directifu my occur.	
	Bits harmful is confined upon sinduk Oxygen Advisory, Hydrogen Solphiake poisoning and dange of combundle gases. • Wine express concentration draps before TNs, datances of branch may occut. • Wine express concentration draps before TNs, datances of branch may occut. • Wine express concentration draps before TNs, datances of branch may occut. • Wine express concentration draps before TNs, datances of branch may result. • Origone Symptome of Association of the set of the	
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	Description Description Description 1 Main express constraints depo below (TVs, darsers of frends may excent)	n/writereaddata/EIA/030420

So, you also see any kind of vulnerable zone for bomb blasts, which is which can also likely happen in a place like this. So, what kind of threat are there? And what is what are the possibilities and what will be their impact? Likewise, you can see toxic gas releases which can happen they have studied that as well, and what are the risks of oxygen deficiency?

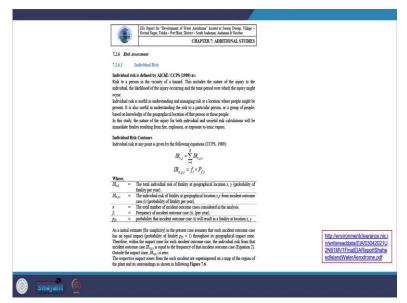
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Further, you can see the new subject here coming it is related to the epidemics pandemic and then COVID-19. So, what can happen in this given it is a very sensitive area and what is the failure frequency assessment? So, even failure frequency, what events can happen, you can see in the table high-speed diesel stock accidental spill, followed by pool fire.

So, event frequencies you see it is very, very less likely to happen in a year than an event to the vehicle at parking fuel release followed by fire even three seaplane mishaps followed by fuel fire and explosion.

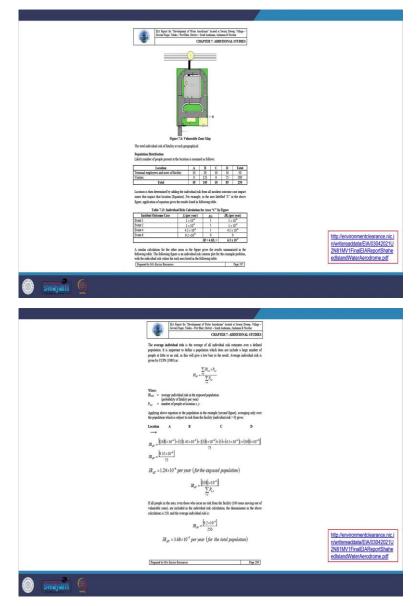
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Further, they have studied risk assessment related to individual risk and what they mean by individual risk, risk to a person in the vicinity of a hazard. This includes the nature of the injury to the individual the

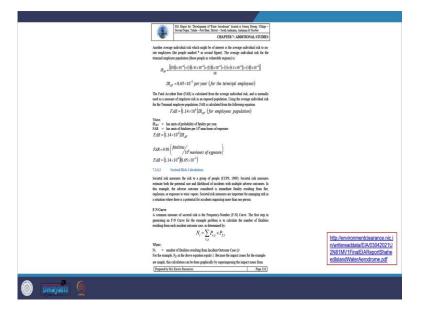
likelihood of injury occurring and the period over which the injury might occur. So, they have given the formula here, and they have calculated it what is the possibility of that and how the population is distributed in and around the facility which can lead to individual risk.

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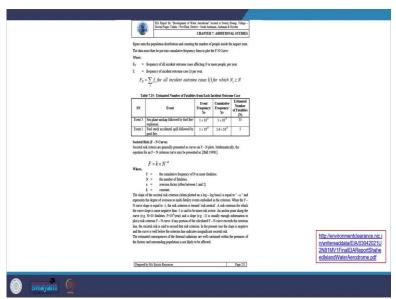
So, what are the risks of fatalities in these particular fatalities, you can see at events 3, 5, 7, and all those what the individual risks of fatalities, which can happen every year. So, you see that the calculation, so, very, very less possibility of that happening.

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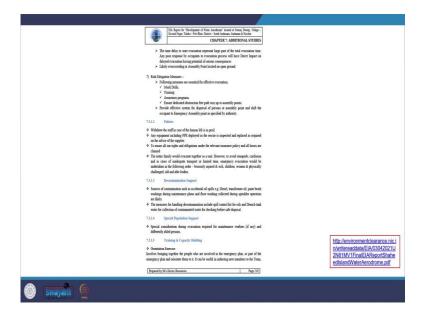
So, they have also calculated societal risk calculations, you remember individual risk calculation and societal risk calculation. So, here also the frequency number curve FN curve, that you have studied about. So, they have done that calculation here as well.

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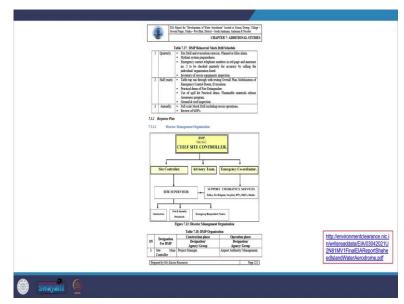
So, the estimated number of fatalities for each incident outcome case, so, what kind of event can happen, you can see in the table here, seaplane mishap followed by fuel fire or explosion. So, what is the possibility of frequency, what is the cumulative frequency, and estimated number of fatalities that can happen?

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So, aligned with that, what are the risk mitigation measures with which they are taking, so, for that, they have mock drills training, awareness programs, and ensure dedicated obstruction-free pathways at the assembly point, so all that is as taken as a mitigation measure. And then they are also looking at the policies here and then the contamination support, special population support training, and capacity building. So, all that would be taken care of.

(Refer Slide Time: 18:55)



So, they have also created a response plan. So, if anything mishap happens, what will be the response plan, so you see the disaster management organization?

(Refer Slide Time: 19:05)

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				CHAP	TER 7: ADDITIONAL STUDIES]	
	SN	SN Designation For DMP		Construction phase Designation/	Operation phase Designation/	nation/	
	2 Site Incident Site Controller		cident	Agency/ Group Site Manager.	Agency/ Group Terminal Manager.	-	
	3 Emergency EHS Coordinator		y i	EHS Manager.	Admin Manager.	1	
	4 Supervisor • 5 • 0			Site Supervisor. Contractor Supervisor.	Safety Officer.		
	5.1	5.1 SAR Team		Security guards, first aiders, fire fighters, staff & workmen, external IRT's.	Aircraft Rescue and Firefighting trained persons, first aid trained persons, NDRF, IRT's.		
		Engineerin Team	1g	 Electricians. Operators. 	Electricians. Operators.	1	
	5.3	Advisory T All others :	at site	Architect, Consultants. Contractors, staff, workers, visitors, drivers, construction		-	
	Control of	2 06		workers colony.	passengers, onvers.		
	7.3.2. Roles			Responsibilities	s are detailed in respective SOP's in		
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7323 Emergency Response Golde Table 7.39: Emerg	gency Respon					72 <u>8</u>	
7.3.2.3 Emergency Response Guide	gency Respon		natroller mergency previsor	research and a second and a second and a second		TOTAL	-
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222 Emergency Enquero Golde Table '1.9: Emerg SN TASK Example of the emergency data Example of a coheren SN TASK Tasks Tasks	ing site emerg help from adv s. IRT's, NGC site teams racy services, acy level, cc ared, inform do	ninovi statisti	•	Creation at the second	Contentions and a second secon	non mandoaren mandoaren mandoaren herritek herri	5 Diverge tophs bigs backed
1.2.2.3 Emergency Encytone Golds Table 1.3.9: Emergency SN TASK	ing site emerg help from adv s. IRT's, NGC size teams may services, any level, co ared, inform di Emergency.	ninovi statisti	•	A Provide Prov	Resembles	and unitative recent years of the feature sectors the	5 brumge resolds the sequences of the sequences of the sequences of the sequences
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So, there, how it works and what kind of response plan they have. So, how each one would be responsible for what kind of responding and taking care of the activity? So, the emergency response guide they have prepared will help them to take action when any kind of mishap happens. So, you can see the stable emergency response guide as well as you can see steps to declare a category three emergency of a site emergency. So, how they would be doing that, so, that these will be the procedural aspects.

(Refer Slide Time: 19:42)



And then you also see what kind of rescue and relief operation will be taking place response activities specific to the disaster what kind of services and support they are going to offer what kind of recovery plan they would have, what kind of medical assistance, and what kind of insurance they would offer. So, all the inventory of the resources, what kind of financial arrangements are made for all that has been given in detail here. So, you can see that here.

(Refer Slide Time: 20:15)

		EIA Report for "Development of Govind Nagar, Taluka - Port Blair,	Water A Dattiet -	rodrome" located at Swaraj Dweep, Village - Soeth Andonam, Andonam & Nicober		EIA Report Genind Nag	fin "Development of Water Aecodrome" r, Talaka – Port Blair, Dottort – South Am	tecare a sweet Dweet, vaage - tecare, Andonus & Nicobar			
1			c	LAPTER 7: ADDITIONAL STUDIES			CHAPTER	R 7: ADDITIONAL STUDIES			
				car park and approach road	Search light		• Flags.	Pulley, crab wisch			
	Rescue by	oat and fire fighters	1 10.	during Final Approach Take Off	 Тио жау га 	dat.	• Stericher	Hydraulic jack			
				(FATO) Area during operations in the water body.			Safety Signage & Symbols*** • Evacuation plan. (you are here).	• First ad			
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	Fire Audi				 Escape soute 		•Near each change of direction in	Description of the second			
	for fight	ng and first aid Training. Il Fire Dell			01074.000400		the escape route.	10000 C 000 C 0			
		varmess Program.			 Emergency Centre (ECC) 		 Assembly point. 	 Display of emergency contact numbers 			
-		a. d ward fare & security staff.	-				Personal Protective Equipment*				
-		kkess system and car calling		Terminal building	 Safety Hela 			 Masks. 			
	system.				 Safety Gog 			 Life jackets 			
		ontrol System		as per BCAS requirements	Resources last a	s macative at	d may need site specific changes.				
		ication facilities			7.3.5 Comm	a Rair & Re	auschliter -				
		dwidth, Wi-Fi system				Chief Site Co					
	Telephon	Exchange digital' IP EPABX									
				I. The Site Main Controller shall take responsibility of overall main control of the site Straments, UPS/ Battery etc. 2. Ensure that all the key persons are available on univ performing the task.							
	VIEF FM sets (Walke-Talkie										
	Stations	nd Mobile Stations).			 Ensure since arry) are res 		f all the emergency respondents an	t make sure that all conflicts (if			
	Flight 1 (FIDS)	information Display System	ation Duplay System With adequate number of duplay devices in departure, arrival and security hold area for passenger facilitation.			adequate saf	ty measures for responders and all	lected communities are in place			
					5. Delegate an	ventra dutva	relevant person depending upon th	e situation.			
.4		Protection;					or the disaster control activities and	relief materials.			
	Lighting			advance lightening protection system at terminal building			of the human life is in peril. mation to the media.				
		indication light					Disaster Control Room. Declaring	off site energence (d situation			
-	Provision		-			d appounce the same.					
3	Earth Qu	uake, Land Slide Protection; make resistant desim &	-				a for clearance signal to the Site Incident Controller and emergency				
	construct				u				net becomes normal.		
	Strictural		-		11. Determine	monthes for a	estoration work and seek the advice	e of a conservator as to the best			
6	Flood Pr				methods an	d options, and	obtain cost estimates.				
		ter drain of adequate capacity			7157	Site Incident	and the second se				
	Devaters		-		7351	Site Incident	deat Controller				
-	Life jacks Retaining		-		1. Identify the	areas likely t	be affected by the emergency. Giv	e information as required by the			
_	- recounted		-		Fire Brigad	e and Police.					
_			Table 7.22: Resources List		2. Carry out fire fighting and evacuation operations, keep communication with emergen			annunication with emergency	http://environment		
		Search & I					sons in the building especially in lif	ts and month.	n/writereaddata/E		
		n with battery. +Hand Operating Sires. + First aid box.					out and feed back to SAR team.				
	Whistles Ropes-Nylo	Metal Cuting s Sipen/Partable		Wheel chair. Mad can.	4. Asset the la				2N81MV1FinalEIA		
	Kopes- Nylo Ladder	 Szen/Partable Barncade taxe. 		eee • Mad pan. • Bucket.	5. Gude the s	earch and reso	e tean with geographic information	n and persons trapped.	edislandWaterAer		
-			_								
27	epared by M	's Emiro Resouces		Page 226	Prepared by N	i's Emilio Reso	205	Page 227			

And what kind of common roles and responsibilities they would take, so, all that has been mentioned here is any kind of risk.

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	Elh Report for "Development of Water Aerodrome" incated at Swami Daven, Wilder -	-	EIA Report for "Devicement of West Astrodome" located at Sware Dover, Village -
	East, neport tar "Development of Water Aerodicate" acceded at Swany Dweep, Vidage - Gerinal Nagar, Tahiaa - Port Blair, Detroit - South Andonan, Andonan & Nicolum		ELA Report for "Development of water Aeronouse" access it Swatej Develj, vilage - Govind Naper, Taluka - Port Elair, Dotrict - South Andenna, Andennae it Nacober
	CHAPTER 8: PROJECT BENEFITS		CHAPTER 3: PROJECT BENEFITS
	Chapter 8: PROJECT BENEFITS		ed project about 40-50 persons are expected to employ for the shilled, semi-
N is seen that	the Project is aimed to fulfill the objective of Sastainable Development. It will		killed category. The preference will be given to local population fix employment
	we respect to anten to many and to what estent this will reach is submitted		lied and unskilled category, this will increase the employment opportunity in the
herein below.			ea. The ideology of the company is to give employment opportunity to nearby
	ements in the Physical Infrastructure		in is the most positive aspect of company segarding enhancement of the society.
s.1 mprov	enens in the Physical Intrastructure		s and indirect employment are also bound to be generated to provide day-to-day
This Project w	il improve the physical infrastructure of this area.		ices to the work force and industrial activity. This will also increase the demand
			ially utilities in the local market. Due to proposed expansion there will be f communication facilities in the area.
	distub the existing pattern of drainage, because the building construction is not	development o	communication factories in the area.
	is more a steel structure not preventing the natural flow of rain water. There will	The sector of	people will be besefired financially. This financial gain will fulfill their monetary
	any intradation nor any erosion. As surface run off rain water harvesting is		prope was se cenerate intarcassy, rais materia gain was sains user inspectry which is turn will increase their standard of living.
	Rain harvesting will reduce the water constamption rate during monsoon. On the	requirements,	NIKIS IS THE AND EXCENTION OF AND AND A DATES.
	no groundwater is consumed by us as we are either dependent on authorized	The second of	stential including the parages, loading-unloading actions, enteries, small shop
	ter source or on recycled wastewater after fall meatment.		tantial. The local people can get a good share out of this. In the factory, science
	inve in the premises will give a pleasant look to the land. It will absorb some		mma. The local prope can get a good same on of unit, in the incitety, science a mevials and there some outsiders will have to be enabled at least for the time
	he CO ₂ produced by project activities. For greening firsh water is not proposed to		prevates and unre some outstants will have to be enjoyed at resolute the unre
	he treated wastewater will be recycled and its CNPK contents will be useful as		efit of hasher jobs. If this activity of manufacturing becomes stable by that time.
naments (acopy of tees will arrest dust fugitive SPM as well as the acose.		son may become possible farther and then employment availability may further
8.2 Improv	veneuts in the Social Infrastructure	enhance.	
This Project w	il improve the social infrastructure of this area.	It can be stated	that by this activity employment potential is certainly increasing in all walks of
			eni-delled and undelled
	disturb the existing pattern of social relations and democratic set up. This mainly	un - marco, s	
	Proponent is accepted by local culture, without any disturbance to the existing		
	ocial relations or liserarchy.	8.4 Direct	Revenue Earning to the National and UT Eschequer
	he health level goes along with flow of fands and avenue of livelihood.	This reposed to	ill contribute additional revenue to the Central & UT exchenger in the form of
	e on Government institutes like PHC (Primary Health Centre) also goes along		s for interstate movement, composite taxes etc. Indirect contribution to the Central
	al stability of the area.		er will be there due to income by way of resistration of trucks, suvment of road
	reness and economic independence may also help in Family Planning decision-		ix from individual as well as taxes from associated units. Thus, the proposed
making.			ip the Government by paying different taxes from time to time, which is a part of
	ted above about the human health is equally true about animal hashandry and assistance. This may improve now.		us, will help in developing the area.
	tarmony is an important aspect of the society. This can happen only if all the s are confortably placed. Persons engaged in their respective vocation and		Tangible Bearfits
	s are compensively paced. Persons engaged in user respective vocation and b satisfaction leads to this. This will become possible by this venture.	Both tangible	and non-tangble benefits will result from this activity and many of those are
		described about	e. Apart from darect employment, many other benefits will accrue like
8.3 Employ	ment Potential: (Skilled, Semi-Skilled and Unskilled		http://environment
-	ad its supporting activity need many types of people right from magnal to		improvement by general greening with emphasis on biodiversity n/writereaddata/El
	as in supporting activity need many types or proper right from manual to right, in a pyramid. So in manufacturing activity all three types i.e skilled, semi		economy strengthens democratic set-up.
	ngen, in a pyramin so in manuracturing activity an unive types i.e sames, semi killed people are remared.		
	anna heite an selanon	 Improved r 	afety security in surrounding with better Law and Order. edisiondWaterAer
Prepared by 3	6's Emite Resources Page 342	Prepared by 3	Is Enviro Resources Page 143
3			
Line and the second			

So, now, coming to the next segments, we look at the project benefits. So, here, what the EIA reports suggest, indicates that there will be improvement in the physical infrastructure, and the project will improve the physical infrastructure in this area. And it will not disturb the existing pattern of drainage, because of the way it has been designed, and then it will also improve the social infrastructure in the area.

So, it says that it will not disturb the existing pattern of social relations and the Democratic setup. And likewise, the health level goes along with the flow of funds and avenues of livelihood. And it will also depend on what they write on the public health center primary health center and how that will also respond. So, they assume that there will be improvement in the social infrastructure.

And then they also mentioned there will be employment potential like there is employment potential for skilled, semi-skilled, and unskilled people. So, the project and its supporting activity need many types of people right from the manual to manage real strength. So, they would need people for that. So, for the

proposed project, there will be 40 to 50 percent are expected to be employed for these skilled, semi-skilled, and unskilled categories, so, how they would employ people here?

So, the project predicts that there will be positive benefits from the project. And then there is direct revenue earning to the national agency here. So, you see that here the central government would benefit from this particular project. And then there will be also other tangible benefits. So, like an aesthetic improvement, there will be developed economic strength, there will be economic strengthening in this and then it would also be expected to bring literacy and helpfulness and improve safety and security.

However, we do not see how, how this would be done here. But that has given us a destructive statement here. So, that was part of the project benefits. So, it writes about several positive benefits of the project.

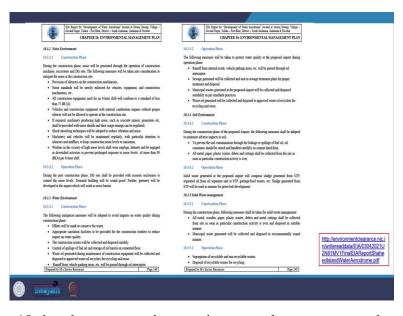
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		EIA Report for "Development of Water A Govind Nagar, Tahaka - Port Shair, Dottier	ierodrane" located at Sinaraj Dusep, Wilage – – South Andenan, Andenan & Nicolue		EIA Report for "Development of Water Aerodouar" In Govind Nagar, Tabias - Port Blair, District - South Andre	iccated at Swataj Dweep, Village - iznat, Anderana & Nicobar	
			CHAPTER 8: PROJECT BENEFITS		CHAPTER 9: C	COST BENEFIT ANALYSIS	
	Symbiosis	and sustainable development will be the	alianate objective		Chapter 9: ENVIRONMENTAL O	COST BENEFIT ANALYSIS	
	8.6 Chapte	r Conclusion					
	Overall benefit	s of the project are as follows:			roject falls in Category 7(a) of the Schedule vide E ing preparation of Environment Impact Assess		
		oject will connect remote areas of isl e tourism, resulting into growth in econo	and to Port Blair and ultimately it will mic condition of these remote areas.	Management P	lan. The environmental cost benefit analysis wa Terms of References accorded to the company	s not made mandatory in the	
	 This poend employ 		al people in terms of direct and indirect		of References published by the MOEF&CC on A cost benefit analysis in the General & Specific TOF		
	employ guard e	ment for the poor strata of society by	rcial development also create additional way of maid/servant, sweeper, security impact on the economic development of s				
	 Connect farmer is 		sults into infrastructural development of				
		ring clean ecosystem of this island, fore acres, resulting into good foreign exchan	ngs tourists are assumed to be attracted at ge amount.				
		oposed to install Solar panels for generi tal load on electricity department	tion of electricity, which will reduce the				
	> it will b	e ZLD project, entire treated sewage wi	I get used for gardening.				
		cated materials are preferred for cons exercision from conventional construction	traction of building, will reduce on site a practices.				
	> Greenby		d, ultimately increasing aesthetic value of				
	1.1.1						
							http://environmentclearance.nic.i n/writereaddata/EIA/03042021U
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							edislandWaterAerodrome.pdf
	Prepared by M	l's Earlino Resources	Page 244	Prepared by M	1 Estiro Resources	Page 345	
0	swayatti						

Then you also see the environmental cost-benefit analysis, what they have done. So, as per the standard ToR, they have undertaken a cost-benefit analysis.

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12) Interface Number of the structure interface i	11 bandwaff Maining Field derivation, Laborary total, particular partitare partitere particular particular partecipar particu	(d Nage; Toluka - Port B CHAPTER 10	of Water Aerodonae'' located it Swarq Dweep, Village - lar: Dettet - South Aufaram, Aufasam & Noobar D: ENVIRONMENTAL MANAGEMENT PLAN	(E G	vind Nape, Tahka - Port Bla CHAPTER 10	f Water Aerodouae" located at 5th it, Dottor - South Audeman, Audem ENVIRONMENTAL MAN	n & Nicolar IGEMENT PLAN	
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	- 3 6										



Then you see in chapter 10 they have covered an environmental management plan. So, here you see how, what is the organizational structure, how it is going to take care of things. So, you see the environmental cell, what will be the composition and how it will be taken care of at every phase of the project, and then how they will look after each component air components at every phase, noise problem, then water environments at every phase of the project and how they will take care of solid waste and other things in every case.

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		Geriad Nagar, Tak	Development of Water Aerodrome" located at Sata taka – Part Blair, Dottict – South Andarana, Andaran	a & Nicobar	
		CB CB	APTER 10: ENVIRONMENTAL MANA	GEMENT PLAN	
	• D	sposal of segregated was	ble organic of wastes for captive use ites to common manicipal waste landfill Site		
		tails of EMP Budget A			
	devices &	management of overall	n has been made with a view to install new environment during the Construction & ops EMP budget is as depicted in the following t	rational phase the	
	24	Table 10.2:	EMP Budget for Construction Phase		
	SN	Attributes	Parameter	Total Cost (in lakin)	
	1	Air Environment	Water for Dust Suppression and sprinklers	1.5	
	2	Water Environment	Provision of mobile toilets and tenches to divert construction water	6.0	
	3	Noise Environment	Provision of acoustic enclosures, noise barriers, maintenance of construction machineroes	2.0	
	4	Solid Waste Management	Collection and disposal of waste material	1.0	
	5	Environmental Monitoring (Refer Table 6.1)	Air, Nesse, Soil, Water, Ecology & Manne Water Sampling	3.34	
	6	Occupational Health	Provision of PPEx, First aid, medical checkups	2.0	
		Total Cost		15.84	
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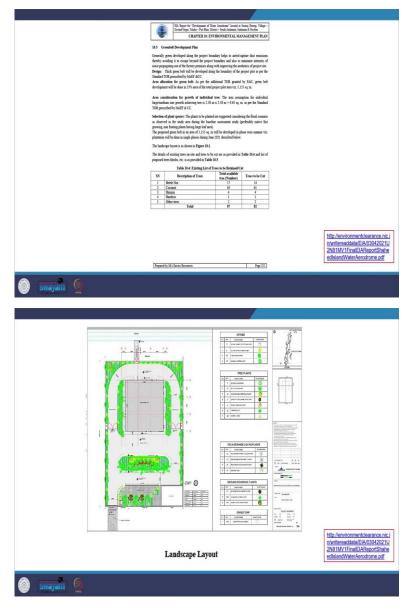
And then you also see how they are allocating the budget for the environmental management plan. So, we do not see the social management plan here. But we do see the environmental management plan. So, like how different physical environments will be taken care of and what kind of budget has been allocated for the purpose.

(Refer Slide Time: 24:08)

			EIA Report for "Development of Water Aerodrome" located at Swaraj Dweep, Village – Govind Nagar, Tahka – Port Blair, District – South Andaman, Andaman & Nicobar				
		CHAI	PTER 10: ENVIRONMEN	TAL MANAGEMENT PLA	N		
		Table 10.3: I	MP Budget for Operation	al Phase			
SN C	Component	Particul	urs	Budgetary Allocation Capital Investment (INR, in lakhs)	Budgetary Allocation Recurring Expenditure (INR, in lakhs/vr)		
1	Air	Provision of Stack for DG set terminal service, Boat Provision of suction hood	naintenance etc.	2.5	1.5		
2	Water	Construction of STP &	its maintenance	30.0	5.0		
3	Noise	Provision of acoustic enclosures terminal building whe	rever necessary	4.0	15		
	invironment Monitoring &	Quarterly Environment Monitoring (Per year) Ambient Air Monitoring PM ₁₀ , PM ₂₅ , SO ₂ , NOx, CO		1.01	11.36		
	Anagement (Refer Table 6.2)	Noise Monitoring					
(Ac		(11111 12011 0.2)	,	Sewage water (Treated &Untreated)	ewage water (Treated pH, COD, BOD, TSS, &Untreated) TDS, Oil & Grease		
	Occupational Health	Periodic medical checkups of Trainings, First :	staff, provision of PPEs, id kits etc	3.0	1.0		
6 (Green Belt	Green belt develop		14.13	-		
7 S	Solid Waste	Estimated annual expenditure for Solid Waste Ma		- 0.5	2.83		
	fanagement						
	Oil spill contingency	Procurement of necessary equip their mainte		5.0	0.5		
		Total Cost (INF	, Lakhs)	59.13	23.89		

So, how they would undertake that, so, you see all that has been covered here particulars about what will be undertaken, what are the components and what is the budgetary allocation and how much they will spend every year into that.

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	ELA Report for "De Govind Nagar, Talui	reloyment of in - Port Blair,	Water Aerodrozze" located at 5 District - South Audoman, Audo	ivanj Dweep, Village – man & Nicobar			ELA Report for ' Govand Nagar, To	Development of I Isla - Port Blair, I	Water Aerodoone" located at Detxist - South Andennes, And	Swamj Devery, Village - teman & Nicolog	
	CEA	CHAPTER II: ENVIRONMENTAL MANI		GIGEMENT PLAN		1	C	LAPTER 10: E	NVIRONMENTAL MA	NAGEMENT PLAN	
	Table 10.5: Pro	Table 10.5: Proposed List for Greenhelt Development			sx		me of Vehicles	No. of	Passenger Car	Vehicles in PCT's	
Sr. Na	Description of	ription of Trees Number				- 4	ibe or vemous	Vehicles	Equivalency (PCE)	vences in PCC's	
1	Trees	NS .			5	Three W	heelers	102	2.00	204	
3)	Bombex Ceibu			4	6	Others		34	3.20	126	
b)	Botic Palm			28	-	O SHOT		Tetal	2.18	1634	
c)	Casarina Equise	Caurina Emilitation			L.,	-	106-1990 madels			164	
4	Cassia Fistula (J		Ð	4		as per tet.	. 100-1990 gradein	6			
e)	Cassia Javanica			4	The	on about	second for main	this provident in 1	having capacity of 19 Pas	have the second	
Ô	Fishtail Palm			21					engen per day. The propo		
(1	Fontail Palm			20							
2	Shrubs						nt ot - 200 trips pe	a day of cars 1	e. 20 cars per la consider	ring 10 ters of daytune	
3)	Carculpena Pul	cherrima		10	ope	rations.					
6)	Cestrum Noctu	THE O		6	-			al a second	106-1990 gadelines is 15	an art for day in the st	
0	Ficus Panda			25							
0	Hamelia Patens			25					(U'shr) is very marginal		
3	Foliage/Shade I	Loving Plan							situation. Traffic will co		
2)	Aglamenta Part	ot Jungle			0		(jus	ta in cui	ning condition) with	iout congestion	and no widening of road
8)	Arlamena Dou	e Variety		20							
0	Aslamenta Silv	er Osees		20	Int	ernal Trat	ffc Management:				
6	Budded Rose			75					d out in below table:		
4	Ground Covers	179			The	unernal tr	ame management p	nan 15 25 detaid	of our in below table.		
2)	CLERODENDS		E	75			Table 10.7: Call	nt Feature of	Internal Traffic Manag	tevent	
6)	Duranta Golden			300		Teres			Drait		
0	Wadelia Trailob	ata		300			> Total 1 Access	solid is series to			
5	Grass turf (Sur	a)		1250	Acc	and a state			a rea class wase read used approach road that is by	in a land to the	
External Tr The propose proposed Se concrete roa	road till the site pre l is situated till 300 m ad is proposed to be wi	mises for en before the s	ted through the soad. The p see of transportation. Pres- ite premises connecting wi and extended up-to the ten	ntly, a 1.7 m width th the main blacktop			I and during mechanical pur Strict enforce proposed entry to be clearly in Sufficient inte subject site. It which can han	Phase I addit king ment for "an p ace points to ave acked at the entry metrics sight day is recommended per the driver's o	tance shall be available for to avoid installing landsce ight distance at turning port	will be provided via as at turning points of and Drop-off Zones are outboand vehicles from ping of more than 0.6m som.	
Existing nor	ber of vehicles on Sun	nj Dweep is	as follows:		Vel		located to avoi	à quese spill cre	roduced, then checking poi r on public roads during per	khous.	
	7.44	Table 10.6: Max PCU's Calculation			-	estrias			check is highly recommend mm of 1.2 m width is reco		
SN 1	ype of Vehicles	No. of Vehicles	Passeager Car Equivalency (PCE) ¹	Vehicles in PCU's	Em		access to the p avoid any cost	remises. It is rec licts with vehicul	onmended for safe movem in traffic during peak hours	nz of pedestrians and to	http://environmentclearance.nic
1 Two P	heelers (Personal)	856	0.75	642	Spe	ed.			low speed limit signs (10	km/hr) on intenal road	
2 Two P	herlers (Commercial)	332	0.75	249				a safety perspecti			n/writereaddata/EIA/03042021
3 LMV	Personal)	158	1.00	158	Int		 Cossidering sa 	fety aspect, spee	d bamps are proposed on in	ternal road near drop-off	2N81MV1FinalEIAReportShah
	are presented in the second se										
5 [68(V)	(ARRENTING)	240	1.00	60		_	> h is recommen	ded to install a m	abber upeed bump of maxim	nam height of 2 to 3 inch	edislandWaterAerodrome.pdf
Permeth	M's Enviro Resources			Page 254	h	epared by I	M's Enviro Resource	1		Page 255	200
Linghamer				1							
(ingeneration)											

Then they would also develop a green belt what is the plan for that and how what are the trees they want to plant around it? What are the total available trees and trees which they would be cutting, so, there are 87 trees, trees to be cut are 82, and then how they are going to develop the green belt around it?

So, they have prepared the drawings and numbers and the proposed list for the green belt has been also provided. So, likewise, you also see they have worked out on the traffic management, how they are going to manage the traffic, the internal traffic, see how they are going to take care of it.

(Refer Slide Time: 25:02)

	ElA Report fm "Development of Water Aerodouse" I Govind Naper, Talaka - Port Blair, District - South And CHAPTER 12: DISCL	denan, Andenan & S	Nether	Govind Nagar, Tahka - Part Blar, Dortiet - South Andrasa, Andrasan & Nerður
	CHAPTER 12. DISCLOSE	URE OF CO?	SULTANT	
12.1	Disclasure of Consultant			Management Plan (DMP) Reports.
Mix Ez NABEI is at 1 Maham	Enviro Resources is a NABET Accredited EIA consulta ET/EIA/1821/L40038 valid up to 15 th July, 2021. The registe 1904. Roopingar CHS, Opp. Milap, S. V. Road, Kandi	ered office of Em fevale West, Ma	nino Resources ambai 400067,	25 6,
	Table 12.1: Accredited Sectors as Approved	d by QCI-NABF	21	
		Schedule as	Č –	
SN	Name of Sector	per MuEF&CC notification	Category	
	Mining of Minerals (Opencast)	1 (a) i	В	
	River Valley Projects	1 (c)	A	1
	Thermal Power Plans	1 (d)	A	
	Coal Washenes	2 (a)	B	
	Metallargical Industries (Ferrous & Non-Ferrous) Petrochemical Complexes	3 (a) 5 (c)	A	
	Southetic Organic Chemicals Industry	5(t)	A	
	Distilleries	5 (g)	A	
	Suzz Industry	50	B	
	Isolated Storage & Handling of Hazardous Chemicals	5 (j) 6 (b)	B	
	Ports, Harbours, Break Waters And Dredmar	7(e)	A	
	Building and Construction Projects	S (a)	B	
	Townships and Area Development Projects	\$ (b)	B	
their va 1) 3) 4) 9 9 7) 8 9	hele Rossen in appel a proving following ensities able chemics: Origing Dec Core Control Control for Departure (Control Dec Core Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Freed Control Control Control Control Control Control Control Control Freed Control	of Environment nvironmental Mar ts from State Pol me Management ironmental Cleara	of State Govt. magement Plan illation Control : Authority) maces, Consent	n http://environment.clearance.nic.j n/write-readdate.cl.A00042021U 2/811W1/fmscLRapportShate editainov/data/accounte.pdf
	<u>n (e</u>			

So, now, we see the last part of the report which deals with the disclosure of the consultants. So, you see what all things are disclosed by the consultant. So, you will see that Enviro Resources is the NABET accredited EIA consultant, and what are the areas in which they are accredited sector-wise for this, so, you can see all the domains which they have worked on from 1 to 13 areas you can see and like what kinds of things they are engaged in and providing environmental consultancy.

So, you can see they provide environmental clearance, they provide environmental impact assessments, they prepare environmental management plans and environmental diligence services, and then you also see CRS

at clearance for his clearance compliance report. And then they also are involved in designing and commissioning ETP, STP, WTP, and zero liquid discharge and also preparation of code detailed risk analysis preparation on the on-site site emergency preparedness plan and any kind of legal matter they can handle.

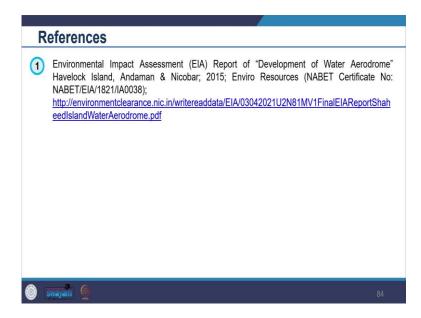
So, we have seen the entire report of EIA for this particular water aerodrome case, and you see what kind of analysis has been done, and what kind of analysis has not been undertaken, so, you can think of ecosystem services that are not yet required as the legislation in our scenario, but what kind of potential it had to understand from this where we have questions like what the fishermen would be impacted or not from coming from the public hearing.

So, all that kind of what other areas and what are the details could have been covered and what are the details which have been covered very well. So, you can review all those aspects and see, what the advantages of the EIA process which was followed here, what the advantages of the entire legislation were followed here, the process of ToR that was followed here, and what was missed out, so, you can look into that.

So, winding up, this is the culminating session of the entire course, we have covered a range of topics which we have seen. So, you see how we end with the series of case studies where we see how the EIA report looks like what is happening in the practice, and how it is addressing the sustainable development aspect.

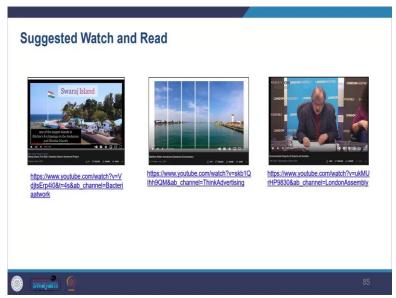
> Summary Case study - Part II –
> Development of Water Aerodrome, Andaman & Nicobar

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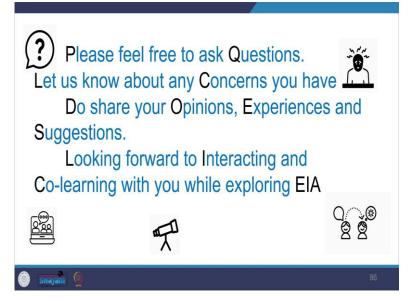
So, today, in particular, we covered part two of the EIA case study. And with this, we end this particular course session. So, the key reference for this particular session was the EIA report of this particular case. And you are already aware of the key textbooks which we have used in this. For these case studies, I would encourage you to talk more in the discussion forum and give your feedback on what you observed while we went through we skim through the entire report here.

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So, these are the suggested watch and read which you can see more, and they were suggestions related to case studies from different parts of the world from where all the learners are coming together. So, I will be sharing all of those in the discussion forum as far as possible.

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You are free to ask questions and let us know about any concerns you have, you share your opinions, experiences, and suggestions looking forward to interacting and co-learning with you while exploring EIA. So, continue discussing with us, continue posting your questions to us and we will try to answer as much as possible. Thank you so much.