

Full title of the Project: Diversion of Forest Land for construction of Bhavali Pumped Storage Project (1500 MW) in Thane & Nasik Districts of Maharashtra State

File No.: FP/ MH/HYD/153240/2022

Date of Proposal: 06/03/2022

PARTICULARS OF THE PROJECT

(Submitted by the Dy. CF. Shahapur Division)

1.	Parivesh ID	bhavail.psp@jsw.in
2.	Name of Project	Construction of Bhavali Pumped Storage Project (1500 MW) in Thane & Nasik Districts of Maharashtra State
3.	User Agency	JSW Energy PSP Two Limited, JSW Centre, Bandra Kurla Complex, Bandra East, Mumbai- 400 051
4.	Category of the Project	Hydel
5.	Location (i) District (ii) Division (ii) Circle	Thane Shahapur Thane
6.	Area Statement (Area involved in the project) of Shahapur Division	(i) Non-Forest Land (A): 31.08 Ha. (ii) Forest Land (B): 243.737 Ha. Say: 243.74 Ha. Shahapur Division: Forest: 181.45 Ha. Non- Forest: 0 Ha. West Nasik Division: 62.29 Ha. NF: 31.08 Ha. Total land (A)+ (B): 274.82 Ha. Say: 275.00 Ha. (iii) Legal Status of forest land involved – RF/ PF/ Deemed RF
7.		The Pumped Storage Project is essentially a site-specific project because it requires a particular type of topographical and geological conditions. The sites of elevation variance are required to construct reservoirs of desired capacity. Reservoir location should compulsorily fulfil the geo-technical criteria needed for establishing the Pumped Storage Project. Since this project requires water as a means to store energy, the project has to be in close proximity of the water source. For this project, initially, the proposed site was identified by the Government of Maharashtra. The Government of Maharashtra has entered

		into an agreement with JSW Group by signing the Memorandum of Understanding for setting up of the extant project.		
8.	(i) Whether project falls within any Protected Area (Yes /No)	A part of project in West Nasik Division falls within Conservation Reserve.		
	(ii) If yes, Name of PA	Igatpuri Conservation Reserve		
	(iii) How much forest area involved in the project is located in PA	62.29 Ha.		
	(iv) How much forest area involved in the project is outside PA	181.45 Ha.		
9.	(i) Whether project falls in vicinity of a PA (Yes/No)	Yes		
	(ii) If yes, Name of PA & Distance of project from the boundary of PA	Name of PA	Distance	
		Kalsubai Harishchandragad WL Sanctuary	2.21 KM (from nearest boundary in Shahapur Division)	
		Igatpuri Conservation Reserve	Within	
	(iii) Extent of ESZ of this P.A. in Km	About 1.60 to 4.00 km of Kalsubai Harishchandragad WL Sanctuary		
10.	(i) Whether projects fall in wildlife corridor? (Yes/No)	No		
	(ii) if yes	1	Area of the project falling in Tiger corridor as per EVL study	NA
		2	Area of the project falling in Tiger corridor as per Telemetry study	NA
		3	Area of the project falling in Tiger corridor as per Tiger Conservation Plan	NA
		*If the project falls in Tiger Corridor, details of compartments/survey no. to be provided		
11.	Whether Wildlife Clearance is required for the project	Vide letter dated 23/05/2022 of MoEF & CC (WL Division), if the project area is falling within Conservation Reserve, it does not require consideration by the Standing Committee of NBWL as per Ministry's Guidelines dated 06/05/2022.		

12.	Whether Environment Clearance is required for the project	Yes		
13.	Details of Alternative Examined (i) No. of Alternative Examined. (ii) Justification for selecting the proposed alternative & reason for rejecting other alternatives	(i) Project is site specific. However, three layouts have been examined. (ii) Three alternative layouts have been examined by the Project Proponent on the basis of geo- technical and techno- economic parameters. Proposed layout will have less Levellised Tariff and overall cost as compared to other alternatives.		
14.	Vegetation of Area proposed for diversion			
	(i) Density	Area	Density	Category
		73.85	0.2	Open Forest
		107.600	0.6	Dense Forest
	(ii) Eco-Class Value	Class I		
	(iii) Species wise composition of vegetation of the area.	Tropical Moist Deciduous Forest		
15.	(i) Project affected trees (Number) FRL	Below 30 cm girth - 30010 Above 30 cm girth - 29468 Total Numbers of trees - 61554		
	(ii) Out of trees listed in 15 (i) above, trees required to be felled (Number) FRL -4	Below 30 cm girth - 30009 Above 30 cm girth - 27637 Total Numbers of trees - 57646		
16.	Any Rare/endangered/threatened species found in the area, if yes mention species	Presence of wild animals like leopard, in the forest as well as in the revenue areas is not uncommon.		
17.	Details of Schedule-I species in the area, if any	Leopard		
18.	Compensatory Afforestation Details			
	(i) Whether C.A land is applicable?	Yes		
	(ii) Nature of land (DFL/NFL/Compensatory Trees)	NFL		
	(iii) Canopy Density of proposed C.A land.	0.5		
	(iv) No. of patches	01		
	(v) Area of each patch	245 .735 Ha.		
	(vi) Distance of proposed CA land from forest area	Adjoining		

	(vi) Financial outlay for C. A.	Type of Work	Area (Ha.)	Amount
		CA Scheme	30.00	40699986
		Scheme of crop improvement Programme	215.7350	66778223
		Total	245.7350	107478209
	(vii) Whether C.A land is suitable, is free from encroachment and suitable from management point of view	Yes. The land is situated adjoining to the RF, is free from encroachment and suitable from management point of view.		
19.	Whether any Violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and related guidelines.	No		
20	Whether is observed any court case/judgment pertaining to the project proposal or related to diversion of forest land.	No		
21.	Cost Benefit Analysis			
	(i) Whether C.B Analysis is applicable (Yes/No)	Yes		
	(ii) C:B ratio	9.89:1		

Date: 02 / 07 / 2025

Place: Shahapur

Office Seal:



Dipesh Malhotra, IFS
Dy. Conservator of Forests
Shahapur Forest Division, Shahapur