

## विषयः विवरण पेश गर्ने सम्बन्धमा।

श्री सम्पूर्ण अनुमतिपत्र प्राप्त व्यक्ति तथा संगठित संस्थाहरु,

महोदय,

प्रस्तुत विषयमा विद्युत नियमन आयोग ऐन, २०७४ को दफा १३ को प्रायोजनार्थ तहाँबाट प्रवर्द्धित प्रत्येक परियोजना सम्बन्धी छुट्टाछुट्टै विवरण यस पत्रसँग संलग्न गरिएको ढाँचामा पन्ध्र (१४) दिन भित्र यस आयोग समक्ष पेश गर्नुहुन अनुरोध गरिन्छ।

नुतन प्रकाश शर्मा सचिव.

संलग्नः

9. RoR/PRoR/Storage परियोजनासँग सम्बन्धित आवश्यक विवरण।

विद्युत निरामन आरोग - नेपाल सानो गौचरण, काठमाडौं, नेपाल इमेल : info@erc.gov.np, वेबसाइट : www.erc.gov.np फोन : +९७७-१-४४२२४४२, ४४३९००४, ४४४३३९० फ्याक्स : +९७७-१-४४३२१८२२ Name of the Plant

Stage of the project (Under Operation/Under Construction)

Concered Developmentary	Cr. No	Desembles	11	Value			
General Parameters	Sr. INC		Unit	value			
	1	Installed Capacity (Rated)	MW				
	2	Installed Capacity (Overloaded)	MW				
	3	Type of Plant	ROR / PROR / Res.				
	4	Type of Hydro Generating Station	Surface / Underground				
	5	Year of Commissioning (Actual/Expected)	MM/YYYY				
	6	Number of Units	No.				
	7	Unit Size	MW				
	8	Dam Height / Head Height	Metres				
	9	Area of Reservoir	m3				
	10	Peaking hours	Hr				
<b>Operational Parameters</b>	Sr. No	Parameter	Unit	FY 2019	FY 2018	FY 2017 FY 2016	FY 2015
	1	Plant Availability Factor (Actual/Expected)	%				
	2	Plant Load Factor	%				
	3	Plant Auxiliary Consumption (In house/self consumption)	%				
	4	Transmission Losses (from Generating Station to connection point)	%				
	5	Design Energy - as per DPR or PPA	MU				
		Please mention the Q - level	MU				
Capital Structure	Sr. No	Parameter	Unit	Value			
	1	Total Capital Cost	NPR Million				
	2	Total Debt	NPR Million				
		Domestic Debt	NPR Million				
		Foreign Debt	NPR Million				
	2	Total Equity	NPR Million				

Long Term Loan Details	Sr. No	o Parameter	Unit V	/alue
	1	Loan 1	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	2	Loan 2	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	3	Loan 3	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	4			

perating Cost	Sr. No Parameter	Unit	FY 2019	FY 2018	FY 2017	FY 2016	
	1 Total Operating and Maintenance Expenses	NPR Million					
	Salary and Wages	NPR Million					
	Repair and Maintenance Expenses	NPR Million					
	Administrative and General Expenses	NPR Million					
	Other operating expenses	NPR Million					
orking Capital Loan Details	Sr. No Parameter	Unit	Value				
	1 Loan 1	NPR Million					
	Туре	Domestic / Foreign					
	Tenure	Months					
	Rate of Interest	%					
	Other Charges / Special Terms of the Loan	##					
	2						
ocuments Required	Sr. No Document Required			_			
	1 Last 5 Years Financial Statement with Schedules (depreciation schedule is necessary)						

Name of the Plant Stage of the project (Under Operation/Under Construction)

General Parameters	Sr. No	Parameter	Unit	Value
	1	Installed Capacity (Rated)	MW	
	2	Installed Capacity (Overloaded)	MW	
	3	Type of Plant	ROR / PROR / Res.	
	4	Type of Hydro Generating Station	Surface / Underground	
	5	Year of Commissioning (Actual/Expected)	MM/YYYY	
	6	Number of Units	No.	
	7	Unit Size	MW	
	8	Dam Height / Head Height	Metres	
	9	Area of Reservoir		
	10	Peaking hours		
	11			
	12			

Operational Parameters	Sr. No	Parameter	Unit	FY 2019 FY 2018 FY 2017 FY 2016 FY 201	5
	1	Plant Availability Factor (Actual/Expected)	%		
	2	Plant Load Factor	%		
	3	Plant Auxiliary Consumption (In house/self consumption)	%		
	4	Transmission Losses (from Generating Station to connection point)	%		
	5	Design Energy - as per DPR or PPA	MU		
		Please mention the Q - level	MU		
Capital Structure	Sr. No	Parameter	Unit	Value	
	1	Total Capital Cost	NPR Million		
	2	Total Debt	NPR Million		
		Domestic Debt	NPR Million		
		Foreign Debt	NPR Million		
	3	Total Equity	NPR Million		

ong Term Loan Details	Sr. No	o Parameter	Unit	Value
	1	Loan 1	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	2	Loan 2	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	3	Loan 3	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	4			
	4			

Operating Cost	Sr. No Parameter	Unit	FY 2019 FY 2018 FY 2017 FY 2016 FY 2015
	1 Total Operating and Maintenance Expenses	NPR Million	
	Salary and Wages	NPR Million	
	Repair and Maintenance Expenses	NPR Million	
	Administrative and General Expenses	NPR Million	
	Other operating expenses	NPR Million	

Working Capital Loan Details	Sr. No	Parameter	Unit	Value
	1	Loan 1	NPR Million	
		Туре	Domestic / Foreign	
		Tenure	Months	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	2			
Documents Required	Sr. No	Document Required		
	1	Last 5 Years Financial Statement with Schedules (depreciation schedule is necessary)	-	
	2	Detailed Project Report (DPR) for under construction projects		
	3			

Name of the Plant

Stage of the project (Under Operation/Under Construction)

General Parameters	Sr. No	Parameter	Unit	Value
	1	Installed Capacity (Rated)	MW	
	2	Installed Capacity (Overloaded)	MW	
	3	Type of Plant	ROR / PROR / Res.	
	4	Type of Hydro Generating Station	Surface / Underground	
	5	Year of Commissioning (Actual/Expected)	MM/YYYY	
	6	Number of Units	No.	
	7	Unit Size	MW	
	8	Dam Height / Head Height	Metres	
	9	Area of Reservoir		
	10	Peaking hours		
	11			
	12			

Operational Parameters	Sr. N	o Parameter	Unit	FY 2019	FY 2018 FY 2017 FY 2016 FY 2015
	1	Plant Availability Factor (Actual/Expected)	%		
	2	Plant Load Factor	%		
	3	Plant Auxiliary Consumption (In house/self consumption)	%		
	4	Transmission Losses (from Generating Station to connection point)	%		
	5	Design Energy - as per DPR or PPA	MU		
		Please mention the Q - level	MU		
Capital Structure	Sr. N	o Parameter	Unit	Value	
	1	Total Capital Cost	NPR Million		
	2	Total Debt	NPR Million		
		Domestic Debt	NPR Million		
		Foreign Debt	NPR Million		
	3	Total Equity	NPR Million		

Long Term Loan Details	Sr. N	o Parameter	Unit	Value
	1	Loan 1	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	2	Loan 2	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	3	Loan 3	NPR Million	
		Туре	Domestic / Foreign	
		Repayment Period	Years	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	4			

Operating Cost	Sr. No Parameter	Unit	FY 2019 FY 2018 FY 2017 FY 2016 FY 2015
	1 Total Operating and Maintenance Expenses	NPR Million	
	Salary and Wages	NPR Million	
	Repair and Maintenance Expenses	NPR Million	
	Administrative and General Expenses	NPR Million	
	Other operating expenses	NPR Million	

Working Capital Loan Details	Sr. No	) Parameter	Unit	Value
	1	Loan 1	NPR Million	
		Туре	Domestic / Foreign	
		Tenure	Months	
		Rate of Interest	%	
		Other Charges / Special Terms of the Loan	##	
	2			

Documents Required	Sr. No	r. No Document Required		
	1	Last 5 Years Financial Statement with Schedules (depreciation schedule is necessary)		
	2	Detailed Project Report (DPR) for under construction projects		

Parameter	Definition		Formula
Plant Availability Factor	"Plant Availability Factor (PAF)" in relation to a generating station for any period means the average of the daily available maximum generation capacities (MCs) for all the days during that period expressed as a percentage of the installed capacity in MW reduced by the auxiliary energy consumption.	$PAF(in\%) = \sum_{i=1}^{N} \frac{MC_i}{N \times IC \times (1 - AUX)}$	IC = Installed Capacity of the generating station or unit in MW, MCi= Maximum Available Generation Capacity in MW for the ith time block of the period, N = Number of time blocks during the period, and AUX = Auxiliary Energy Consumption in %
Plant Load Factor	Plant Load Factor (PLF) in relation to generating station or unit for a given period means the total actual sent out energy in a period of time , expressed as a percentage of total energy corresponding to installed capacity in that period	PLF (in %) = (Actual energy from the plant(kwh)) / (Plant Capacity (kwp) x 24 x 365)	
Auxiliary Energy Consumption	"Auxiliary Energy Consumption" or "AUX" in relation to a period in case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station, and transformer losses within the generating station, expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station		