


## Additional Capitalization Proposed for FY 2017-18

Name of HEP: Khodri

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				
	Procurement of spares for Capital maintenance of Unit No-01 (viz. spares for pivot ring servo motors guide apparatus, generators etc.)	4.00	Unit No -01 has operated for around 1.5 lacs hours since commissioning. Replacement of proposed spares of shall result in life enhancement of the Unit.	Efficency of Power house will increase in production	



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	Work regarding capital maintenance of Unit No-01 of Khodri Power house.	2.50	Unit No -01 has operated for around 1.5 lacs hours since commissioning. Capital maintenance of the unit No- 02 shall result in life enhancement of the Unit.		
	Procurement of "Thorplas" trademark "Thordon" make self lubricating guidevane bushes at Khodri	0.35	These bushes are based on the latest technological innovation and are being used specifically for the purpose of water based turbines.		
	Procurement of dredger pump at Khodri	0.15	These pumps shall be used as back up spare inventory for immediate full replacement as and when the pump under operation fails.		
5	Vehicles				
6	Furniture & Fixtures				
7	Office Equipments & Others				



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## Additional Capitalization Proposed for FY 2018-19

Name of HEP: Khodri

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery Procurement of spares for Capital maintenance of Unit No-03 (viz. spares for pivot ring servo motors guide apparatus, generators etc.)	4.00	Unit No -03 has operated for around 1.5 lacs hours since commissioning. Replacement of proposed spares of shall result in life	Efficiency of Power house will increase in production	

			enhancement of the Unit.	
	Work regarding capital maintenance of Unit No-03 of Khodri Power house.	2.50	Unit No -03 has operated for around 1.5 lacs hours since commissioning. Capital maintenance of the unit No- 02 shall result in life enhancement of the Unit.	
	Procurement of "Thorplas" trademark "Thordon" make self lubricating guidevane bushes at Khodri	0.35	These bushes are based on the latest technological innovation and are being used specifically for the purpose of water based turbines.	
5	Vehicles			
6	Furniture & Fixtures			

7	Office Equipments & Others				
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## ANNEXURE – C

Particulars	FY of COD	Previous Year (2014-15)	Current Year (2015-16)			Remarks+	Ensuing Year (2016-17)	Ensuing Year (2017-18)	Ensuing Year (2018-19)
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)		Projected	Projected	Projected
<b>A) Expenditure Details</b>									
a) Land									
b) Building									
c) Major Civil Works									162.32
d) Plant & Machinery						984.52	1129.74		2287.71
e) Vehicles							7		
f) Furniture and Fixtures									
g) Office Equipment & Others							28.9		
<b>Total (A)</b>						984.52	1165.64		2450.03
<b>B) Break up of sources of financing</b>									
<b>Rupee term Loan</b>									
Debt 1 (With IDC)						698.98	918.06		1968.11
Debt 2									
....									
<b>Foreign Currency Loan</b>									
Debt 1									
Debt 2									
....									
<b>Equity</b>									
In Rupees (With IDC)						299.56	393.45		843.47
In Foreign Currency									
c) Others (Please specify)									

<b>Total (B)</b>							998.54	1311.51	2811.58
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Additional Capitalization Proposed for FY 2015-16 ( Tentative from 01.10.2015 to 31.03.2016)					
Name of HEP: Dhakrani					
S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				




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	Energy efficient Lighting material	0.25	To replacement of defective & old lights at Dhakrani Power Station.	saving of energy and long life of LED	Approximately
	Supply of 5 kv Insulating Tester	0.03	available Insulation tester is unserviceable hence new Tester is required	shaii be useful in measuring IR of different electrical equipment during maint.	as per offer received
	supply of pumps Set with motors	0.15	required as spare	when existing pump got damage spare pump may used to feed the clean water for gland seal of m/c and drinking water	Approximately
	Replacement of 110 V Battery Set & Charger	0.20	Battery Set become 12 years old and completed standard life and need to be replaced.	To make D.C System Healthy and reliable.	Approximately
	supply of various fire-fighting equipments	0.05	available fire fighting equipments are not sufficient hence required to purchase some more fire fighting equipments	to ensure the safety against fire	Approximately



	Supply of Centrifusing machine	0.10	existing m/c is very old & original spares are not available in market therefore need to be replace with modern centrifuging machine	Proper centrifuging of transformer oil may be carried out without delay	Approximately
	Retrofitting of LT breakers	0.30	Siemens make LT breakers in LT Room of power station are old and creating problems & spares are not available in market hence need to be replace with new.	LT supply in power station shall be ensured without trouble	Approximately
	Supply & fixing of Throden bearing	0.08	rerubberization of turbine guide bearing is to be done every year hence thorden bearing is to be used on experimented basis	for long life of turbine guide bearing	Approximately
	T&P (Bolt tensioner etc)	0.15	New T&P are required at power station	shall be used for maint.	Approximately

			there is no power backup in case of grid fail hence DG set is required at power station	24 hrs power backup shall be available at power station	Approximately
	Supply of D.G. Set	0.25			
		1.56			
5	Vehicles				
6	Furniture & Fixtrues				
	Upgrading of Committee Room	0.05	New furniture etc. are required for upgradation of committee room at power station	There shall be better arrangement for meeting at power station during inspection of higher officers.	Approximately
		0.05			
7	Office Equipments & Others				
	computers & other IT items	0.02	computers etc. available are not sufficient	for better working	Approximately
		0.02			



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## Additional Capitalization Proposed for FY 2016-17

Name of HEP: Dhakrani

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				
4.2	Supply installation, commissioning & testing of 132 kV isolators	0.40	Many 132 kV isolators have outlived their normative life so needs replacement.	to minimise down time	Approximately

  
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4.3	Supply and fixing of LED lights	0.15	To save energy by replacement of conventional lights with Energy efficient lights / LED lights at Dhakrani Power Station	saving of energy and better lighting at Dhakrani Power Station.	Approximately
4.4	Supply and replacement of seamless pipe of generator stator cooling.	0.05	As the existing pipe line has become very deteriorated & old and have served more than 60 years and have outlived their normative life thus need replacement.	to minimise the down time.	Approximately
4.5	Replacement of Battery Set	0.11	Battery Set become 10 years old and need to be replaced.	To make D.C System Healthy and reliable.	Approximately
4.6	Procurement of 01 no. rotor pole in spare.	0.25	There is no spare pole available in spare.	to minimise the down time.	Approximately

  
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4.7	Replacement of Governor	6.00	existing Governors are very old & required to replace with microprocessor based governor	to minimise down time	Approximately
4.8	Replacement of Greasing System Of Unit A	0.10	existing system is very old and irreparable hence required to replace with new greasing system	to minimise down time	Approximately
	TOTAL	7.06			
5	Vehicles				
6	Furniture & Fixtures				



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	Procurement of Godrej make Furniture for power house	0.05	Most of the furnitures available at Committee room & various places at Power House are more than 10 years old and have outlived their normative life thus need replacement	for better look and comfort	Approximately
7	Office Equipments & Others				
	Computers, Printers etc.	0.02	computers available are not sufficient	for better working	Approximately



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Additional Capitalization Proposed for FY 2017-18

Name of HEP: Dhakrani

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				
4.2	Automization of dewatering pumps	0.10	Due to shortage of staff and manual monitoring there are more chances of idle running & damage of pumps	Energy saving and safe running due to automisation hence maint. cost reduced.	Approximately



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4.4	Replacement of Excitation System	5.00	existing system is very old & required to replace with system of latest technology	to minimise down time	Approximately
4.5	Oil SumP Cooler	0.06	existing coolers are very old hence required as spare so that it may be replace whenever required	to minimise down time	Approximately
4.6	Replacement of Trashrack	0.60	Trash rack at intake of power station is very old and deteriorated day by day hence required to replace	safety and strength shall be ensured	Approximately
	TOTAL	5.76			
5	Vehicles				
6	Furniture & Fixtrues				



7	Office Equipments & Others				
	PhotoStat Machine and Other I.T. Items	0.05	There is no photostat machine, fax, scanner at power station	energy account, generation reports, informations etc shall be provided easily.	

Additional Capitalization Proposed for FY 2018-19

Name of HEP: Dhakrani

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				

3	Major Civil Works				
4	Plant & Machinery				
4.1	Procurement of energy efficient/ LED lights etc	0.10	To replacement of defective & old lights at Dhakrani Power Station.	To save energy by using Energy efficient lights /LED lights at Dhakrani Power Station.	Approximately
4.2	Procurement of various types cables	0.30	Replacement of old cables where as required.	Prevention of any breakdown due to fault in cables	Approximately
4.3	Procurement of Thrust Bearing Pads	0.12	to be kept as spare	to minimise the down time	Approximately
	TOTAL	0.52			
5	Vehicles				
6	Furniture & Fixtures				
7	Office Equipments & Others				



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## ANNEXURE – D

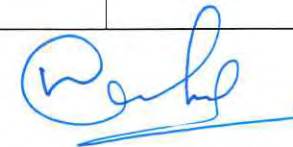
Particulars	FY of COD	Previous Year (2014-15)	Current Year (2015-16)			Remarks+	Ensuing Year (2016-17)	Ensuing Year (2017-18)	Ensuing Year (2018-19)
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)		Projected	Projected	Projected
<b>A) Expenditure Details</b>						Subject to Investment Approval from Hon'ble UERC			
a) Land									
b) Building									
c) Major Civil Works								114.8	702
d) Plant & Machinery				1065.83	1065.83		1130.67	2732.63	2211.59
e) Vehicles							14		
f) Furniture and Fixtures									
g) Office Equipment & Others							28.9		
<b>Total (A)</b>				1065.83	1065.83		1173.57	2847.43	2913.59
<b>B) Break up of sources of financing</b>									
<b>Rupee term Loan</b>									
Debt 1 (With IDC)				778.79	778.79		935.33	2281.93	2546.78
Debt 2									
....									
<b>Foreign Currency Loan</b>									
Debt 1									
Debt 2									
....									
<b>Equity</b>									
In Rupees (With IDC)				333.77	333.77	400.84	977.96	1091.48	
In Foreign Currency									
c) Others (Please specify)									

<b>Total (B)</b>				1112.56	1112.56		1336.17	3259.89	3638.26
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**Additional Capitalization Proposed for FY 2015-16  
( Tentative from 01.10.2015 to 31.03.2016)**

Name of HEP: Dhalipur

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				



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	<b>Energy efficient Lighting material</b>	0.25	To replacement of defective & old lights at Dhalipur Power Station.	saving of energy and long life of LED	Approximately
	<b>Major overhauling of 17MW capacity Unit-C of Dhalipur Power House.</b>	2.50	For running of Power station smoothly	Major overhauling is needed to improve efficiency of the power plant	as per offer received
	<b>Supply, Installation, Testing &amp; Commissioning of 250kVA DG set.</b>	0.25	there is no power backup in case of grid fail hence DG set is required at power station	24 hrs power backup shall be available at power station	Approximately
	<b>Supply, Installation, Testing &amp; Commissioning of CCTV camera at different locations of the plant for safety.</b>	0.15	Security of Power House is lookafter only by UPNL guards	CCTV is required for security and better supervision of Power station.	Approximately
	<b>Supply, Installation, Testing &amp; Commissioning of 110V battery set.</b>	0.12	Only one battery set is in working condition	For smooth running of power station it is necessary to have alternate battery set in case of failure of first battery set.	Approximately
	<b>Procurement of control cables.</b>	0.05	There is no cable in spare	spare of control cable is required.	Approximately
	<b>Procurement of 06 Nos 132kV outdoor PT.</b>	0.03	No spare PT is available	Spare PT is required to minimize the down time of the machines	Approximately

	<b>Installation of 11/4kV Substation at Dhalipur Power House Colony</b>		Power supply of colony is fed directly through UAT or SAT.	There is no bifecation of circuits in colony. In case of brakdown balck out occurs in whole colony.	Approximately
		0.25			
	<b>Procurement of Centrifuging machine for Dhalipur Power Station.</b>		New T&P are required at power station	shall be used for maint.	Approximately
		0.15			
	<b>Procurement of CS Gate Valve</b>		Cooling pipeline of Unit A is in damaged condition	Gate valves are required to replace cooling pipeline of Unit A of Dhalipur Power station.	
		0.30			
		<b>4.05</b>			
<b>5</b>	<b>Vehicles</b>				
<b>6</b>	<b>Furniture &amp; Fixtrues</b>				
	<b>Upgrading of Committee Room</b>		New furniture etc. are required for upgradation of committee room at power station	There shall be better arrangement for meeting at power station during inspection of higher officers.	Approximately
		0.10			
		<b>0.10</b>			
<b>7</b>	<b>Office Equipments &amp; Others</b>				

	computers & other IT items	0.02	computers etc. available are not sufficient	for better working	Approximately
		0.02			

## Additional Capitalization Proposed for FY 2016-17

Name of HEP: Dhalipur

S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				



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4.1	Replacement of governors	4.50	As the existing governors have outlived their normative life and sluggish in operation and are outdated technology based, their spares are not available. They are giving frequent problem and knowhow of these governors is very limited. Thus replacement of existing governing system is must by state of art technology based digital governors in all three units one by one to avoid the generation loss on this head (Rs 4.5score approx)	Replacement of existing governing system is must by state of art technology based digital governors in all three units one by one to avoid the generation loss on this head	Approximately
4.2	Supply and fixing of LED lights	0.15	To save energy by replacement of conventional lights with Energy efficient lights / LED lights at Dhakrani Power Station	saving of energy and better lighting at Dhakrani Power Station.	Approximately



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S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				



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4.1	Replacement of governors	4.50	As the existing governors have outlived their normative life and sluggish in operation and are outdated technology based, their spares are not available. They are giving frequent problem and knowhow of these governors is very limited. Thus replacement of existing governing system is must by state of art technology based digital governors in all three units one by one to avoid the generation loss on this head (Rs 4.5crore approx)	Replacement of existing governing system is must by state of art technology based digital governors in all three units one by one to avoid the generation loss on this head	Approximately
4.2	Supply and fixing of LED lights	0.15	To save energy by replacement of conventional lights with Energy efficient lights / LED lights at Dhakrani Power Station	saving of energy and better lighting at Dhakrani Power Station.	Approximately
4.3	Supply and replacement of seamless pipe of generator stator cooling.	0.05	As the existing pipe line has become very deteriorated & old and have served more than 60 years and have outlived their normative life thus need replacement.	to minimise the down time.	Approximately
TOTAL		4.70			

  
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Additional Capitalization Proposed for FY 2017-18					
Name of HEP: Dhalipur					
S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				
3	Major Civil Works				
4	Plant & Machinery				
4.2	Automization of dewatering pumps	0.10	Due to shortage of staff and manual monitoring there are more chances of idle running & damage of pumps	Energy saving and safe running due to automisation hence maint. cost reduced.	Approximately

4.4	Replacement of Excitation System	4.50	As the existing excitation system have outlived their normative life and sluggish in operation and are outdated technology based. Spares of the excitation system are not available due technological changes. They are giving frequent problem. Thus replacement of existing excitation system is must by state of art technology based digital excitation system in all three units one by one to avoid the generation loss on this head(Rs 4.5crore approx)	Replacement of existing excitation system is must by state of art technology based digital excitation in all three units one by one to avoid the generation loss on this head	Approximately
4.5	Oil SumP Cooler	0.06	existing coolers are very old hence required as spare so that it may be replace whenever required	to minimise down time	Approximately
4.6	Replacement of Trashrack	0.60	Trash rack at intake of power station is very old and deteriorated day by day hence required to replace	safety and strength shall be ensured	Approximately
	<b>TOTAL</b>	<b>5.26</b>			
<b>5</b>	<b>Vehicles</b>				

  
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6	Furniture & Fixtrues				
7	Office Equipments & Others				
	PhotoStat Machine and Other I.T. Items	0.05	<b>There is no photostat machine, fax, scanner at power station</b>	<b>energy account, generationn reports, informations etc shall be provided easily.</b>	

Additional Capitalization Proposed for FY 2018-19					
Name of HEP: Dhalipur					
S. No.	Description	Amount (In Crore)	Need/Urgency of Capex	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
1	Land				
2	Building				

  
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3	Major Civil Works				
4	Plant & Machinery				
4.1	Procurement of energy efficient/ LED lights etc	0.10	To replacement of defective & old lights at Dhakrani Power Station.	To save energy by using Energy efficient lights /LED lights at Dhakrani Power Station.	Approximately
4.2	Procurement of various types cables	0.30	Replacement of old cables where as required.	Prevention of any breakdown due to fault in cables	Approximately
4.3	Procurement of Thrust Bearing Pads	0.12	to be kept as spare	to minimise the down time	Approximately
	TOTAL	0.52			
5	Vehicles				
6	Furniture & Fixtrues				
7	Office Equipments & Others				

  
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