

# ANNEXURE - 4

  
(Purushottam Singh)  
Director (Operation)  
UJVN Ltd.  
Dehradun

Name of Project : Dhakrani

E&M Expenses

Additional Capitalization Proposed for the FY 2018-19					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery	-			
1	SITC of Fire Hydrant system	0.60	for safety of power Station and men power against fire	At Power Station permises Transformer oil,turbine oil is stored for future porpose and for used at the time of maintenance to avoid generation loss , lot of area is covered by grass , various feeders are in switch yard so the possibility of fire. So for safety of power Station and men power against fire.	Budgetary offer
2	Capital Maintenance of Unit-1	2.00	Excess vibration and decreased efficiency	For efficient working and to prevent generation loss.	Budgetary offer
3	Overhauling & modernization of EOT crane	0.50	Excessive noise and vibration	For proper and efficient completion of daily, annual and capital maintenance works.	Budgetary offer
		3.10			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	3.10			

  
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Additional Capitalization Proposed for the FY 2018-19					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement.	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
1	Provision of Fencing at right bank of power channel near bhimawala & Down stream of Dhakrani PH.	0.30	Provision of Fencing at right bank of power channel near bhimawala & Down stream of Dhakrani PH.		Provision of Fencing at right bank of power channel near bhimawala & Down stream of Dhakrani PH.
		0.30			
D	Plant & Machinery	-			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	0.30			

  
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Additional Capitalization Proposed for the FY 2019-20					
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A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery	-			
1	Procurement installation and testing of 33 kv Breakers	0.65	Existing Breakers are old and operated more than 7500 time	For healthiness of the system it is proposed to procure new circuit breakers and to avoid the miss-happening and smooth operation.	Budgetary offer
2	Providing and installation of Energy efficient lights at Power house main building and other areas of power station premises.	0.75	to reduce energy consumption	For proper lighting at Power station various places and to reduce energy consumption .	Budgetary offer
3	Painting work on switchyard structure ,Intake structure ,electrical and mechanical equipments of Power house	0.30	to safe the equipments and structure from rusting	For safety of equipments and structure against rust and water, painting work is required.	Budgetary offer
4	Installation of clean water bore well pump.	0.70	Reduced discharge of present pump and unavailability of backup.	Clean water is used for cooling of LGB and sealing segments and therefore directly impact the performance of machine and generation. These pumps also serve for supply of drinking water in the power house and new pump will also be used for the supply of drinking water to the colony.	Budgetary offer
5	Laying of Gravels at 33KV Switchyard and surrounding areas	0.30	Growth of unwanted grass and shrubs.	Safety from fire, cleanliness of switchyard area and enhanced earth resistance.	Budgetary offer
		2.70			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	2.70			

Additional Capitalization Proposed for the FY 2019-20					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
1	Renovation and Modernization Type-I Dhakrani Colony	0.70	At present the residence existing in Dhakrani colony are not in good condition so it is required to renovate the existing quarter with floor tiles. These works are need to be taken in capital head.	The residences existing in the colony are very old and the resident regularly demand the floor tiling work in their quarters for asthetic and hygenic living condition.renovation of these quarters will increase the ability of employees and ultimately the uninterrupted power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
2	Office Building for Central Store at Dhakrani Power House	0.30	At present there is a need of construction of office building for central store at Dhakrani Power House that could not be done in routine O&M works and need to be booked in capital head.	Office building is necessary for central store.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
3	Construction of residential Building Type IV 05 Nos Qtr's at Dhakrani Colony	2.00	At present the residence existing in Dhakrani colony are not in sufficient numbers and employees regularly demands residential quarters wor there residence. The officers and operating staff has been increased therefor there is urgent need to construct residential quarters. These works are need to be taken in capital head.	The residences existing in the colony are not in sufficient numbers and staff is increasing day be day. Construction of these quarters will increase the ability of employees and ultimately the uninterrupted power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
4	Construction of Residential Building Type III 04 Nos Qtr's at Dhakrani Colony	1.40	At present the residence existing in Dhakrani colony are not in sufficient numbers and employees regularly demands residential quarters wor there residence. The officers and operating staff has been increased therefor there is urgent need to construct residential quarters. These works are need to be taken in capital head.	The residences existing in the colony are not in sufficient numbers and staff is increasing day be day. Construction of these quarters will increase the ability of employees and ultimately the uninterrupted power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.

  
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5	Development of Old D.P.H building into Multipurpose Hall at Dhakrani	0.25	As per instruction given by Director HR during visit at Dhakrani on demand of employee old DPH building has to convert in to Multi purpose Hall for various indoor sports and social activities.	At present there is no building present in Dhakrani Colony for sports and other activity, therefore on demand of employee the OLD DPH building which was useless now is planned to be convert in in door sports and other social centre. That will increase the mental satisfaction of the employee which is positive sign for employee as well as for power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
		4.65			
<b>C Major Civil Works</b>					
1	Special repair work of right bank service road of power channel from Silt ejector Dakpathar to skew bridge Dhalipur	3.50	The existing road is in very poor condition. Repair of road is necessary to maintain the road from which machinery trucks are used to transport also employees uses this road to move from colony to power house/barrage. therefore to prevent the accidents and smooth movement and generate of uninterrupted power from power house work is necessary.	Repair of road is necessary to maintain the road from which machinery trucks are used to transport also employees uses this road to move from colony to power house/barrage. therefore to prevent the accidents and smooth movement and generate of uninterrupted power from power house work is necessary.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
2	Internal fencing work of Dhakrani Colony	0.40	At present fencing within the Dhakrani colony campus is almost in dead condition and required repair and new fencing to maintain the employee privacy and safety.	That will increase the mental satisfaction of the employee which is positive sign for employee as well as for power generation.	
3	Special Painting of Dhakrani Colony	0.30	Painting of Colony is necessary to maintain the asthetical view of colony.	That will increase the mental satisfaction of the employee which is positive sign for employee as well as for power generation.	
4	Lawn Development and construction of Vehicle stand at Dhakrani Trining centre	0.20	Lawn is situated in new developed training centre. For maintaing asthetical view of premises lawn has to develope also vehicle stand is necessary for the vehicle of trainees attending the training.	Lawn is situated in new developed training centre. For maintaing asthetical view of premises lawn has to develope also vehicle stand is necessary for the vehicle of trainees attending the training.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
5	Land Demarcation	1.50	Initially Power Channel and Colony and other project associated land of Dhakrani Hydro Project was looked up by UK irrigation but now after the Government order the project associated power channel, colony and land has been transferred to UJVNL. Most of the land on both side of power channel is illegally occupied by the local residents. The mutation work of land is in progress and notice distribution is in the process. Therefore demarcation of land is necessary to avoid future illegal occupation. asset	This will increase the UJVNL asset value. And protect the illigsl occupancy of land and colony quarters.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.

6	Construction of Road side drain from along power channel from Dakpathar barrage to skew bridge	0.80	For protecting the road along the channel also for protection of channel drain construction is necessary.	For protecting the road along the channel also for protection of channel drain construction is necessary.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
		6.70			
D	Plant & Machinery	-			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	<b>Total</b>	<b>11.35</b>			

  
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Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery				
		14.00	Payment against Design work and supply		
		10.00	15% Advance against BG as per terms and conditions if contractor demands		
		24.00			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	24.00			

  
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Additional Capitalization Proposed for the FY 2020-21					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery	-			
1	Procurement installation and testing of 145 kv Sf6 Breakers	0.75	to increase the stability of the system	For healthiness of the system , procure new circuit breakers and to avoid the miss-happening and smooth operation.	Budgetary offer
2	Replacement of all electrical wiring and pannels of Intake Gate Crane.	0.30	Damaged wiring and malfunctioning of contactors.	Proper operation of intake gates directly impact the generation.	Budgetary offer
		1.05			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	<b>Total</b>	<b>1.05</b>			

  
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Additional Capitalization Proposed for the FY 2020-21					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
1	Construction of Field hostel in Dhakrani Colony.	1.00	Training centre has been constructed for the effective training and educational strengthening of trainees. It is now required to provide the accommodation for the trainee during training period, therefore provision of field hostel is proposed here.	Training centre has been constructed for the effective training and educational strengthening of trainees. It is now required to provide the accommodation for the trainee during training period, therefore provision of field hostel is proposed here.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
2	Balance work of OLD D.P.H building into Multipurpose Hall at Dhakrani	0.25	As per instruction given by Director HR during visit at Dhakrani on demand of employee old DPH building has to convert in to Multi purpose Hall for various indoor sports and social activities.	At present there is no building present in Dhakrani Colony for sports and other activity, therefore on demand of employee the OLD DPH building which was useless now is planned to be convert in in door sports and other social centre. That will increase the mental satisfaction of the employee which is positive sign for employee as well as for power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
		1.25			
C	Major Civil Works	-			
1	Realignment and construction of internal drain of Dhakrani Colony	0.30	Existing drain from the colony has been damaged and water gets stored in the nearby village has become problem for the villagers and therefore it is necessarily required to realign and construct the drain.	It is necessary for the nearby villagersto realign the drain.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
2	Sewage treatment plant at Dhakrani Colony	1.50	As per the order of NGT it is required to construct the sewage treatment plant for the colony and power house. Therefore provision for STP has been proposed.	As per the order of NGT it is required to construct the sewage treatment plant for the colony and power house. Therefore provision for STP has been proposed.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
3	Develpoment of exsiting ground as stadium near Dhakrani Colony	1.00	Existing ground has to be develope as stadium for out door games that will also serve as marriage centre for the employees.	That will increase the mental satisfaction of the employee which is positive sign for employee as well as for power generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.

4	Special repair of Dhakrani Power House Building	1.00	special repair is required to strengthening the existing power house building that will increase the life of power house and will avoid any interruption in generation.	special repair is required to strengthening the existing power house building that will increase the life of power house and will avoid any interruption in generation.	Rate taken in the estimate are based on PWD SoR/ DSR/ Rate analysis.
		3.80			
D	Plant & Machinery	-			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	5.05			

  
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Additional Capitalization Proposed for the FY 2020-21					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery				
		20.40	Payment against supply and works		
		20.40			
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	20.40			

  
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Additional Capitalization Proposed for the FY 2021-22					
Sr. No.	Description	Amount (Rs. In Crores)	Need/Urgency of CAPEX	How the Capex will have improvement in performance of plant/life enhancement	Justification of cost/rate
A	Land	-			
B	Building	-			
C	Major Civil Works	-			
D	Plant & Machinery				
		20.40	Payment against supply and works		
E	Vehicles	-			
F	Furniture & Fixtures	-			
G	Office Equipment	-			
H	Others	-			
	Total	20.40			

  
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