Sl. No.	Head of Work /Equipment	2014-15	2015-16	2016-17	2017-18	2018-19	Total
2	Discharged of Liabilities	0.00	0.00	0.00	0.00	0.00	0.00
	Total Additional capital expenditure	**304.90**	**0.00**	**0.00**	**0.00**	**0.00**	**304.90**

11. The Commission vide its order dated 3.5.2017 in Petition No. 255/GT/2014 had allowed the projected additional capital expenditure of Rs 304.90 lakh towards phosphate dozing pump, vibration meter, battery operated trolley, cutting machine, ladders, pulling & lifting machines, pipe bending machines, shaft alignment device, torque wrenches, master level indicator, sump pump, effluent disposal pump, magnetic separators, portable fire extinguishers etc.

12. The Petitioner, in Petition No.255/GT/2014, had claimed (i) total additional capital expenditure of Rs1056.90 lakh in 2015-16 towards hydraulic jack, main oil pump, emergency oil pump, HP IP Rotor, LP rotor, power hack saw machine, drilling machine, for modification and up-gradation, vacuum cleaner, rotor for generator etc., (ii) total expenditure of Rs 2252.00 lakh in 2016-17 towards drilling machine, HP IP rotor, tractor, dozer, transformer ratio meter, oil filled transformer, infra-red camera, etc., (iii) total additional capital expenditure of Rs 4885.00 lakh in 2017-18 towards N-pit pump, LP rotor, Compressor/DG set, weather monitoring system, transport air compressor, welcome fountain, civil structure, Rotor for generator, modification work, 1600 KVA dry type transformer, replacement of wireless system, photocopier etc. and (iv) total additional capital expenditure of Rs 728.00 lakh in 2018-19, towards phosphate dozing pump, hot well makeup pump, ACW pump, MWCW pump, up-gradation of DCS software module, Instrument air compressor, building, four wheeler shed, RCC drain work, workshop machines & tools, generator tools, lab equipment's, retrofitting of 33 KV SF6 breaker etc. However, the Commission vide its order dated 3.5.2017 had granted liberty to the Petitioner to claim these items along with proper justification and the details of these assets with relevant provisions of the regulations, at the time of truing-up of the

tariff of the generating station.

13. The cut-off date of the generating station is 31.3.2015. Accordingly, the additional capital expenditure claimed by the Petitioner (on cash basis) for the period 2014-19 is shown as under:

Items c*laimed under Regulation 14(1)(i)* of the 2014 Tariff Regulations

14. The additional capital expenditure claimed by the Petitioner in 2014-15 under Regulation 14(1)(i) of the 2014 Tariff Regulations is discussed below:

(Rs. in lakh)

Sl. No.	Head of Work /Equipment	2014-15	Justification
1	4 Wheel Battery Operated Platform Trolly-4000 Capacity	6.56	The equipment's are installed at strategic locations throughout BTPS and hence the transportation of materials for maintenance consume more time if done manually. Also, some heavy spares which could not be transported manually needs to be transported by vehicles. the trolleys were procured for materials transportation within a short duration thus reducing critical equipment's downtime resulting in energy & revenue savings.
2	Primary Injection Test Set	7.79	The testing kit is necessary for preventive maintenance testing of existing contactors, bimetal relays and as high current injection source for any other purpose like CT ratio measurement. This ensures effective preventive maintenance as well as breakdown maintenance, thereby ensuring reliability of equipment's in-service.
3	Automatic Relay Testing Kit	33.49	The testing kit is necessary for preventive maintenance as well as breakdown maintenance testing of all types of numerical and electromechanical relays in-service in thermal station. This ensures reliability of protection system for fault detection and subsequent isolation of faulty section in case of electrical faults, thereby saving critical equipment's in-service. It is also being used for preventive as well as breakdown maintenance testing of Energy meters, transducers, bimetal relays, etc.
4	On-Line Dc Earth Fault Locator	5.20	Equipment is used for locating and rectifying DC earth fault and thus improves efficiency of the plant by prevention of tripping.
5	Testing Transformer (0-5) Kv.	0.92	The test kit is required for preventive as well as breakdown maintenance testing of electric motors, insulators and cables. This

			ensures the healthiness and reliability of the equipment in-service. It is also essential to identify and rectify the fault in the system to bring back the equipment's immediately into service and to keep up the production.
6	Wall mounted Axial Flow Fan	3.60	Ash handling system in Thermal evacuates the ash generated pneumatically. For this air compressors are used. The hot air generated in compressors has to be necessarily sent out of the compressor room. For this wall mounted exhaust fans are installed.
7	Rectifier Type (D.C) Welding Machine	0.74	For carrying out welding works at site during emergency break down conditions and to avoid interruption of generation.
8	NEC SI1000 EPABX System	1.52	Since the old EPABX system had become obsolete the same had to be purchased to match with newer instruments of the market, the system which can support existing Exchange of AO & thermal without any troubleshooting.
9	Wireless E1 Link with Pri Between Exchanges	10.20	In BP three exchanges are there at Thermal Service Building, Administration Office Building and Township Administration Office. These Telephone Exchanges are connected to each other through BSNL OFC but due to frequent cable problem, NLCIL had procured two numbers of Outdoor units and two numbers of Indoor Units for each location, in total six numbers of Indoor Units and six numbers of Outdoor units were purchased.
10	Wireless Telephone System (5 Sets) BTPS to IGNP	13.93	Indira Gandhi Canal is the only source of water to fulfill BTPS water requirement. Total five locations are there between BTPS and IGNP (i.e. Reservoir, OST-2, Pump-2, OST-1 and Pump-1) for proper supply of water, so it was necessary to establish connectivity between all these five locations for smooth operation activity without any interruption. All the locations between BTPS and IGNP are in remote areas where getting mobile signal coverage was very difficult. Installation of multipoint wireless communication was absolutely necessary for day to day activity of IGNP. Then we established point to point communication (Reservoir to OST-2, OST-2 to Pump-2, Pump-2 to OST-1 and OST-1 to Pump-1) between all locations from BTPS to IGNP.
11	Water Pipeline Grid & Rain Gun At Silo Area	5.03	At silo area, fly ash is conveying to Brick Manufacturing companies and Cement manufacturing companies. Due to movement of lorries, fly ash is mixed in air and results in air pollution. To suppress the ash, a waterline has been laid and Rain guns provided.
12	Kent Ro15 lph 1 No. in Boiler Operation Services	0.18	Providing of potable drinking water supply is prime requirement, hence one RO is

			installed to in Boiler Operation Services.
13	Ip Based CCTV Surveillance Camera System-Thermal M	16.03	The Intelligent Bureau (IB) and C1D team of NLC BTPP had recommended after the security audit to establish the IP based surveillance CCTV camera system at 12 locations in the main station building of BTPP with the control station at CISF material gate for the men and material movement surveillance purpose.
14	Network Connectivity For NIC Intranet & ABT monitoring	23.69	The network connectivity through Optical Fibre Cables is not available at Switchyard, Mines and UCB. The ABT Monitoring System and other Intranet application users are finding difficult in carrying out the computer related web application works as the speed is very slow due to the telephone wire connectivity through modems etc.. To improve the present slow speed computer web-based application operation, the present modem connectivity through telephones wire have to be replaced with OFC connectivity.
15	Hp Scanjet G 4010	0.61	To troubleshoot, resolve and restore the network connectivity faster, a desktop PC was not efficient, and hence a laptop for LAN Network Troubleshooting was procured. Moreover, due to increase in computerization of various processes and work which includes online web application development like BP Intranet Website, Switch Yard-UCB Reports, HVBS, Daily Production Report etc., a dedicated development desktop was purchased.
16	Hp Laptop Pavillion 15-No12tx	0.48	
17	Dell Make Desktop Computer With Ups Emerson Make	0.54	
18	Hp LaserJet 401dn Printer	0.31	
19	42 Inch LED TV of Lg Make Full Hd For Audit Room	0.60	For official Meetings on day to day activities for presentation and display.
20	Room Heater 4 Nos.	0.08	Provided at Guest House due to extreme climate condition.
21	Erection & Commissioning of 245 kV Cvt & Ct-Energy Meter System	1.82	Value addition to existing assets
22	Construction of Waiting Shed Outside Material Gate BTPP	0.03	
	Sub-Total (A)	**133.34**	

15. The Petitioner has claimed additional capital expenditure for the aforesaid assets (serial nos. 1 to 22 above) for Rs 133.34 lakh in 2014-15 under Regulation 14(1)(i) of the 2014 Tariff Regulations. Considering the submissions of the Petitioner and since the actual expenditure incurred is within the original scope of work and is within the cut-off date of the generating station, the claims of the Petitioner, as above, is allowed under Regulation 14(1)(i) of the 2014 Tariff Regulations.

Items claimed under Regulation 14(1)(ii) of the 2014 Tariff Regulations

16. The Petitioner has also claimed additional capital expenditure in 2014-15 under Regulation 14(1)(ii) of the 2014 Tariff Regulations, as under:

(Rs. in lakh)

S. No.	Head of Work /Equipment	2014-15	Justification
1	Split AC 2 ton hot & cold type 1 no.	0.53	In Barsingsar Thermal and township, to ensure safety and security, patrolling of the plants and township are done by CISF. Since climatic conditions are extreme, split AC 2 ton hot & cold type are necessary.
2	2 Nos 1 kw roof top solar power system	3.10	Solar panels were used for lighting requirements in the pumping station so as to promote green energy and reduces auxiliary consumption also.
3	Heavy duty radial drilling machine-40 mm drill cap	3.25	For carrying out drilling works outside electrical workshop on emergency break down works at site and to avoid interruption of generation.
4	Construction of truck parking area in front of silo weigh bridge	4.21	A parking area constructed at Silo area, for vehicles taking Fly ash. This ash conveyed through truck and lorries.
5	Storage shed for conveyor & pulleys	19.29	Storage shed was constructed near warehouse to provide storage area for Conveyor and Pulleys for use of Lignite handling system to protect extreme climatic conditions.
6	Roof & open shed for stack yard near warehouse	74.94	A storage shed (Warehouse) has been constructed and the same is now being utilized for the take care of the need to store the mandatory spares handed over by the Package contractors and the equipment/tools/materials purchased for 0&M activities by NLC. to accommodate some of the materials stacked outside the building along the plinth. Some materials like MS pipes and clamps stacked in the open yard adjoining the warehouse.
7	Stock yard for stacking cable east of 33 kv sub station	3.55	Stock yard was constructed to stack the cable in systematic way and the requirement was received from the Electrical maintenance /BTPS.
8	16" Sheetal fiber body air cooler-for guest house	0.06	Air cooler is necessary due to extreme weather conditions to facilitate good health for employees
9	Folding wooden iron cot 2 nos.-staff room-hospital	0.06	Cot for General Hospital Out Patient room for checking the patients
10	Compactor 2 nos. for storing record in account centre	3.94	For keeping official records and all vouchers at place in organized manner so that it can be retrieved easily in future. The same was required for better handling of important official records of all payment and all accounting vouchers.
	Sub-Total (B)	**112.93**	

17. The Petitioner has claimed total additional capital expenditure of Rs 112.93 lakh for the aforesaid assets (serial nos. 1 to 10 above) in 2014-15, under Regulation 14(1)(ii) of the 2014 Tariff Regulations. Considering the submissions of the Petitioner and since

the actual expenditure incurred is within the original scope of work, but deferred for execution and is within the cutoff date, the claim of the Petitioner, as above, is allowed under Regulation 14(1)(ii) of the 2014 Tariff Regulations.

Items claimed under Regulation 14(1)(v) of the 2014 Tariff Regulations

18. The Petitioner has further claimed additional capital expenditure of Rs 19.26 lakh towards assets as detailed below, in 2014-15, under Regulation 14(1)(v) of the 2014 Tariff Regulations:

(Rs. in lakh)

Sl.No.	Head of Work /Equipment	2014-15	Justification
1	Additional street light-west side boundary wall in BTPS	5.71	For surveillance and prevention of unauthorized and suspected laundering near west side boundary of plant which are required for safety of the plant.
2	1 no. high mast lighting tower in thermal silo area	5.84	For surveillance and prevention of unauthorized and suspected laundering near west side boundary of plant which are required for safety of the plant
3	DC handling system	1.18	Ash handling system in Thermal evacuates the ash generated pneumatically. Since this is a critical location, uninterrupted lighting supply is required. Whenever AC supply fails. DC lighting supply provides adequate illumination for AHS activities.
4	Storewell plain with 4 shelves almirah 2 Nos-safety	0.41	Two numbers of storewel plain with 4 shelves almirah was procured due to need for safety of plant for keeping first aid medicines as per rules laid under Rajasthan Factory Rules (Rules-67) and it is statutory requirement.
5	Maruti omni ambulance 1 no.	3.10	Out of the two Ambulances available, one is positioned at Lignite Mines and another one is positioned at Thermal Power Plant to meet out any emergency. At the time of Purchase there was no Ambulance was available at Occupational Health Centre, Lignite Shakthi Nagar, Barsingsar. The committee constituted for the improvement of Medical Facilities at Barsingsar Project recommended as "An Ambulance (Preferably Maruti Omni) may be stationed at Occupational Health Centre, Barsingsar Project."
6	Water cooler 2 nos.-safety & fire services	0.36	For safe drinking water of workmen at site. Since the site is situated at a remote location and to prevent health related issues for employees.
7	25 lph (5nos.) & 50 lph kent RO elite model water purifier	2.65	Providing of potable drinking water supply is prime requirement, hence one RO is installed to Guest House, Mines Office (two nos.), one RO at AHS control room, one RO at thermal canteen and one installed at AO building.
	Sub-Total (C)	**19.26**	
	Total (A)+(B)+(C)	**265.52**	