

**BEFORE THE UTTARAKHAND ELECTRICITY REGULATORY COMMISSION, DEHRADUN**

File Number: \_\_\_\_\_

Case Number: \_\_\_\_\_

**IN THE MATTER OF:**

Filing of petition for approval of Business Plan of M/s Gama Infraprop Private Limited for the Control Period starting from FY2019-20 to FY2021-22 for 107 MW of 214 MW Gas based Kashipur Combined Cycle Power Plant of Gama Infraprop Private Limited (in short Gama Kashipur CCPP or Power Station or Project) at Mahukhedaganj, Kashipur, District Udhamasinghnagar, Uttarakhand.

**AND**

**IN THE MATTER OF:**

**PETITIONER:**

**M/s Gama Infraprop Private Limited**

Registered Office: M-3 (First Floor), Hauz Khas, Aurobindo Marg, New Delhi - 110016

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The humble Petitioner most respectfully showeth:

**1. Specific Legal Provisions under which Petition is being filed:**

- a. Regulation 8 of Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2015,(in short, UERC MYT Regulations, 2015) specifies as below:

“8. Business Plan

*(1) An Applicant shall submit, under affidavit and as per the UERC (Conduct of Business) Regulations, 2014, a Business Plan by November 30th, 2015, for the Control Period of three (3) financial years from April 1, 2016 to March 31, 2019,*

*a) The Business Plan for the Generating Company shall be for the entire control period and shall, interalia, contain-*

*(i) Capital investment plan, which shall include details of the investments planned by the Generating Company for existing stations, yearly phasing of capital expenditure along with the source of funding, financing plan and corresponding capitalization schedule. This plan shall be commensurate with R&M schemes and proposed efficiency improvements for various plants of the company;*

*(ii) The capital investment plan shall show separately, on-going projects that will spill over into the years under review, and new projects (along with justification) that will commence in the years under review but may be completed within or beyond the tariff period;*

*(iii) The Generating Company shall submit plant-wise details of the capital structure and cost of financing (interest on debt and return on equity), after considering the existing market conditions, terms of the existing loan agreements, risks associated in generation business and creditworthiness;*

*(iv) Details related to major shut down of machines, if any;*

*(v) Trajectory of performance parameters;”*

- b. The present petition is being filed under the above provision of UERC MYT Regulations, 2018 for approval of Business Plan of Gama Infraprop Private Limited (hereinafter referred to as “**GIPL**” or “**Petitioner**” or “**Applicant**”)

## 2. Limitation

- a. Hon'ble Commission has approved the tariff after COD of the project in their order dated 16<sup>th</sup> May 2017 and trued up the AFC for FY 2015-16 & FY 2016-17 in order dated 21<sup>st</sup> March 2018 as per UERC MYT Regulations
- b. The Hon'ble Commission has vide letter no. UERC/6/TF/-456/2018-19/2018/870 dated 18<sup>th</sup> Sep 2018 has directed the Petitioner to submit Petition seeking approval of Business Plan in accordance with the Regulations.
- c. The Petitioner, in compliance with the above mentioned directive of the Hon'ble Commission has prepared the Business Plan and submitting the same for approval. Hence the present petition is not barred by limitation of Uttarakhand Electricity Regulatory Commission Conduct of Business Regulation 2014.

## 3. Facts of the case

- a. The Gama Infraprop Private Limited (hereinafter referred to as "**GIPL**" or "**Petitioner**" or "**Applicant**") is a Company incorporated under the Companies Act, 1956. Gama Infraprop Private Limited is a "generating company" falling within the definition under sub section (28) of Section 2 of the Electricity Act, 2003 (hereinafter referred to as the "**Act**") and is developing a 214 MW gas based combined cycle power plant on build own and operate basis at Mahuakheraganj, Kashipur in the Udham Singh Nagar district of Uttarakhand, consisting one module of two gas turbines and one steam turbine; each gas turbine of the capacity of 71 MW and steam turbine of the capacity of 72 MW.
- b. One (1) Gas Turbine and one (1) Steam Turbine of the Project was commissioned on 16<sup>th</sup> March 2016 (First CoD) and expected date of commissioning of second Gas Turbine is 31<sup>st</sup> August 2016 (Plant CoD) based on gas availability.
- c. In compliance with the Order of the Hon'ble Commission dated 8 February 2016, on the Petition filed by Uttarakhand Power Corporation Limited (UPCL) for approval of Draft Power Purchase Agreement, UPCL has entered into a PPA with the Petitioner on 11<sup>th</sup> February, 2016 for sale of power on long term basis equivalent to 107 MW on gross capacity basis (104 MW at plant bus bar).
- d. Hon'ble Commission has trued up the tariff for FY 2015-16 & FY 2016-17 in order dated 21<sup>st</sup> March 2018, also Hon'ble Commission has determined the AFC for 2018-19 in the same order.
- e. The Hon'ble Commission has vide letter no. UERC/6/TF/-456/2018-19/2018/870 dated 18<sup>th</sup> Sep 2018 directed the Petitioner to submit Petition seeking approval of Business Plan in accordance with the Regulations.

- f. The Petitioner, in compliance with the above mentioned directive of the Hon'ble Commission has prepared the Business Plan and submitting the same for approval. Hence the present petition is not barred by limitation of Uttarakhand Electricity Regulatory Commission Conduct of Business Regulation 2014
- g. Following the directives of the Hon'ble Commission and in compliance with the regulation 8 of UERC MYT Regulations, 2018 the petitioner has prepared the Business Plan for the control period from FY 2019-20 to FY 2021-22. The Business Plan is enclosed with this petition in **Annexure I**.
- h. In view of the above, the Hon'ble Commission is humbly requested to kindly approve the Business Plan of GIPL for the Control Period from FY 2019-20 to FY 21-22.

#### **4. Cause of Action**

- a. The cause for action for this present Petition arises on the basis of compliance of the Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2018.
- b. The cause for action for this present Petition arises on the basis of compliance of the directives of the Hon'ble Commission issued vide letter no. UERC/6/TF/-456/2018-19/2018/870 dated 18<sup>th</sup> Sep 2018, to submit separate Petition seeking approval of the Business Plan in accordance with the Regulations for next control period.

#### **5. Grounds of relief**

- a. The Petitioner requests the Hon'ble Commission to accept the petition of the Business Plan for the period FY 2019-20 to FY 21-22 as the compliance of the directive issued by the Hon'ble Commission vide letter no. UERC/6/TF/-456/2018-19/2018/870 dated 18<sup>th</sup> Sep 2018.

#### **6. Details of remedies exhausted**

- a. As the Hon'ble Commission is the Appropriate Authority to determine the tariff under section 86(1) of the Electricity Act 2003, no remedies have been sought from any other Forum/ Court/ Tribunal / Authority.

#### **7. Matter not previously filed or pending with any other court**

- a. The Petitioner further declares that it has not previously filed any petition or wrt petition or suit regarding the matter in respect of which this petition has been made, be the Hon'ble Commission, or any other court or any other authority, nor any such writ petition or suit is pending before any of them.
- b. The Petitioner requests the Hon'ble Commission to approve the Business Plan as per applicable tariff regulations.
- c. Prayers made in this petition may be considered with due reference to Regulation 103 and Regulation 104 of UERC MYT Regulations 2018:

### *103. Savings*

*(1) Nothing in these Regulations shall be deemed to limit or otherwise affect the power of the Commission to make such orders as may be necessary to meet the ends of justice.*

*(2) Nothing in these Regulations shall bar the Commission from adopting in conformity with provisions of the Act, a procedure which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or a class of matters, deems it just or expedient for deciding such matter or class of matters.*

*(3) Nothing in these Regulations shall, expressly or implied, bar the Commission dealing with any matter or exercising any power under the Act for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner, as it considers just and appropriate.*

### *104. Powers to Remove Difficulties*

*If any difficulty arises in giving effect to any of the provisions of these Regulations, the Commission may by general or special order give directions, not being inconsistent with the Act, which appears to the Commission to be necessary or expedient for the purpose of removing difficulties.”*

## **8. Relief Sought-**

In view of the facts and circumstances presented in the petition, the Petitioner respectfully prays that the Hon'ble Commission may be pleased to:

- a. Admit the accompanying petition;
- b. Approve the Business Plan for GIPL for the Control Period (FY 2019-20 to FY 2021-22) in accordance with Regulation 8 of Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2015.
- c. Approve planned outages of Power Station and also grant permission for change in planned outages depending upon requirement of SLDC, Discom and Petitioner.
- d. Allow the Petitioner to make revision to the current petition and submit additional & relevant information that may emerge or become available subsequent to this filing.
- e. Condone any inadvertent omission/ errors/ shortcomings and permit the “Petitioner” to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date.
- f. Pass such other order(s) as this Hon'ble commission may deem fit and proper in the facts and circumstances of the case;

g. Any other relief that the Hon'ble Commission may deem fit;

**9. Interim Order, if any, prayed for-**

Not Applicable.

**10. Details of Index**

**Table 1: Details of Index**

<b>Particulars</b>	<b>Page no</b>
Petition	01 to 08
Affidavit	09 to 10
Board Resolution on approval of Petition	11
Annexure -I : Business Plan	12 to 25

**11. Particulars of fee remitted**

- a. Bank NEFT (No. BARBW18333491569) for a total amount of Rs. 1,00,000/- (Rupees One Lac only) transferred by Bank of Baroda is enclosed herewith as required under UERC(Fees and fines)(Second amendment) Regulations, 2018.

**12. List of enclosures**

**Table 2: List of enclosures**

<b>Particulars</b>	<b>Appendix</b>
As detailed in para10	-

Signature of Petitioner

**Verification**

I, Mr. Rahul Goyal, the Petitioner in the matter, S/o Mr. Ram Lal Goyal, aged 45 years working as Director resident of 11A, AnandLok, Siri Fort Road, New Delhi-110049, do hereby verify that the contents of the paras 1 to 12 are true to my personal knowledge and paras 1 to 12 are derived from officials records, which are true from record, and Paras 1 to 12 are believed to be true on legal advice and that I have not suppressed any material fact.

Signature of Petitioner

Note:

1. The filing for Approval of Business Plan has been signed and verified by the functional Director, along with the resolution of Board of Directors of the Company for specific petition.
2. The petition has been accompanied with the affidavit (as per Form II of Uttarakhand Electricity Regulatory Commission (Conduct of Business) Regulations, 2014) of the Petitioner duly authenticated by Notary public, as provided under the Notaries Act, 1952.



**AFFIDAVIT**



## **Board Resolution**

**Annexure I: Business Plan for Kashipur CCPP of Gama  
Infraprop Private Limited**



***Business Plan for FY2019-20, FY2020-21 & FY2021-22 for  
Gama Kashipur CCPP (214 MW)***

***November 2018***

**By Gama Infraprop Private Limited**

## **1. INTRODUCTION**

### **1.1. Project Overview**

- 1.1.1. Gama Infracorp Private Limited (GIPL) is developing a 214 MW gas based CCPP in the Mahuakheraganj Kashipur district Udham Singh Nagar Uttarakhand. The 214MW gas based CCPP at Mahuakheraganj, Kashipur comprises of two gas turbine generator (GTG), each having a gross output of about 71 MW at site conditions, two heat recovery steam generators (HRSG) and one common steam turbine generator (STG) of about 72 MW capacity. The heat content of the exhaust gas from each of the gas turbine would be recovered from the associated dual pressure non reheat horizontal heat recovery steam generators (HRSG). The steam generated would then be expanded in a condensing type non-reheat steam turbine which drives an electric generator.
- 1.1.2. The name plate capacity of the gas based Power Station is 225 MW (ISO condition) which comprises of two GTGs, each having a gross output of about 76 MW and one common steam turbine generator (STG) of about 73 MW. However at site conditions the power plant will have a gross capacity of 214 MW. The Project is designed to use natural gas / Re-gassified Liquefied Natural gas (R-LNG) as the main fuels for power generation.
- 1.1.3. The detailed Project report (DPR) of the Project was prepared by Tata Consulting Engineers Limited in July 2010. The Bank of Baroda was the lead Lender for the Project and SJA Technical Consultants Pvt. Ltd was the Lender's Engineer providing Due Diligence Services for the Project.
- 1.1.4. The completed cost of Project was estimated to be Rs.834.64 crores at the time of financial appraisal by Banks. Its funding was structured with a Term Loan of Rs.584.25 crores and promoter's equity at Rs.250.39 crores on Debt to Equity Ratio at 70:30. The lead lender had appraised the Project in January 2011.
- 1.1.5. The Petitioner has placed the EPC contract with M/s Luna Infracorp Private Limited with specific conditions to procure critical equipment from reputed suppliers. Accordingly, the Gas Turbine generator (GTG) has been sourced from GE, France while orders for steam turbine generator and HRSG were placed on reputed capital equipment suppliers namely M/s Hangzhou Steam Turbine Co. Ltd. (China) and M/s Thermax Ltd. Pune. The orders for utility and ancillary equipment have been placed on reputed suppliers like Areva, ABB, Atlas Capco, Voltamp, Thermo Systems and so on.

## **1.2. Installed Capacity for the Plant**

- 1.2.1. The Petitioner humbly submits that the installed capacity of the plant is 214 MW at site condition. The 214MW gas based combined cycle power plant comprises of two GTGs, each having a gross output of about 71 MW at site conditions, two heat recovery steam generators (HRSG) and one common steam turbine generator (STG) of about 72 MW capacity; i.e.  $(2 \times 71 \text{ MW} + 1 \times 72 \text{ MW} = 214 \text{ MW})$ .
- 1.2.2. The name plate capacity of the plant is 225 MW (at ISO conditions) consisting of one module of two Gas Turbines (each of 76 MW) and one Steam Turbine (73 MW); i.e.  $(2 \times 76 \text{ MW} + 1 \times 73 \text{ MW} = 225 \text{ MW})$ . The same capacity adjusted to site conditions is 214 MW  $(2 \times 71 \text{ MW} + 1 \times 72 \text{ MW} = 214 \text{ MW})$ .
- 1.2.3. The Petitioner humbly submits that in order to supply 107 MW (gross capacity) of Power to UPCL at normative availability of 85%, the Petitioner has to operate one GTG and one STG at partial load and there cannot be any other combination in the combined cycle operation given the present configuration of the Power Station. Thus the installed capacity to be utilized by the Petitioner for supply of power to UPCL would be 143MW (one GTG 71MW+STG 72MW=143MW). As the STG is designed to take waste heat from both the Gas turbines, therefore it could not have been operated at full capacity.

## **1.3. Evacuation System**

We are currently evacuating our power of 107 MW of 225 MW CCPP at a spare bay of 220 KV S/s Mahuakhedaganj, Kashipur by a single circuit line on the orders by Hon'ble Commission reproduced for your ready reference:

*Apparently connectivity to the Petitioner has been allowed until M/s Beta Infratech Pvt. Ltd. initiate evacuation of power. Once M/s Beta starts generation of power additional transmission capacity will not remain available for evacuation of power from the Petitioner's plant. Accordingly, the Petitioner is directed to complete the works related to dedicated transmission line so as to avoid any dispute on evacuation related issues with STU and other upcoming generating stations"*

## 2. CAPITAL COST OF GAMA KASHIPUR CCPP

### 2.1. Capital Costs

2.1.1. The opening capital cost of Project as approved by Hon'ble Commission in tariff order dated 16<sup>th</sup> May 2017 is Rs.388.96 Crore.

2.1.2. Petitioner made the additional capitalization in FY 2016-17 for Rs.24.47 crore towards contracted capacity of 107 MW, however Hon'ble Commission approved additional capitalization with the methodology of only 50% and hence approved the additional capitalization equivalent to Rs.12.06 crore for FY 2016-17.

2.1.3. Hon'ble Commission revised the capital cost in FY 2016-17 to Rs.401.02 Crore in order dated 21<sup>st</sup> March 2018.

2.1.4. Since Hon'ble Commission has used the methodology of cost apportionment for only 50% i.e. tied up capacity and only allowed for additional capitalization of 50%; however it is pertinent to mention Hon'ble Commission mistakenly apportioned the additional capitalization of already claimed addition for contracted capacity. For better understanding the same, is explained in the table below:

**Table 3: Additional capitalization pertaining to FY 201617 (Rs. Crore)**

Description	Capitalisation claimed for contracted capacity	Capitalisation approved for contracted capacity	Capitalisation requested for contracted capacity as per Commission's methodology
Spare-Supply of Plate Heat Exchanger NT150S HV, 121PL, SS316, 0.6, NBR	0.04	0.04	0.04
Spare-Ball Valve and Ball valve flanges	0.03	0.03	0.03
Spare-MS Profile Sheet	0.01	0.01	0.01
Spare-Measurement of CO <sub>2</sub> , O <sub>2</sub> , NO <sub>2</sub> & CO emissions by pre-calibrated Portable Gas Analyser for continuous/discrete monitoring for GT-1	0.03	0.03	0.03
Spare-Phenanthroline Monohydrate Fisher, EDTA Disodium Salt Chemicals	0.01	0.01	0.01
Work for Erection of Power cycle Piping - Fabrication and erection of Support of material	0.05	0.05	0.05
Advisory Charges for Gas Plant	0.02	0.01	0.01

Chemical Dosing System	0.08	0.04	0.04
Engineering consultancy	0.02	0.01	0.01
Turbine Insulation work with supply of fiber mat including looping line	0.04	0.02	0.02
Work for Erection of Power cycle Piping	0.04	0.02	0.02
Desuperheaters DSH-1	0.04	0.02	0.02
Fabrication and installation of duct, insulation of old duct, commissioning of HVAC	0.03	0.01	0.01
Spares for ST	0.04	0.04	0.04
Spares-Bearing & Bearing Housing & Bolt Heating Device	0.36	0.36	0.36
Spares for GT, Raft & Cartage	0.03	0.03	0.03
Commissioning of GT-1 of 225 MW Gas based Power Plant	4.35	2.18	4.35
Spare-Supply of GT Spare of 225 MW Gas Based Power Plant	0.03	0.03	0.03
Commissioning of GT-2 of 225MW Gas Based Power Plant			
Spare-Supply of GT Spare of 225 MW Gas Based Power Plant	0.16	0.16	0.16
Commissioning of GT-1 Auxiliary 225 MW Gas Based Power Plant	0.51	0.25	0.51
Commissioning of SFC Auxiliary 225 MW Gas Based Power Plant	0.34	0.17	0.17
Commissioning of GCB System of 225 MW Gas based Power Plant	1.02	0.51	0.51
Commissioning of ACC System for 225 MW Gas Based Power Plant	0.61	0.31	0.31
C&F charges	0.01	0.01	0.01
Commissioning of HRSG for 225 MW Gas Based Power Plant	6.1	3.05	3.05
Commissioning of BOP Machinery of GT-1 of 225 MW Gas Based Power Plant	9.17	4.58	9.17
Commissioning of Electrical Transformers for 107 MW for 225 MW Gas Power Plant	1.14	0.57	0.57



Spare - Supply of Spare for 107 MW Power Plant	0.36	0.36	0.36
Spare-330XL Probe	0	0.004	0.004
Flame Detector and Gas Detector Sensor	0.1	0.1	0.1
Spares for GT	0.01	0.01	0.01
Supply of Breakers Spare of 225 MW Gas based Power Plant	0.17	0.17	0.17
Differential Expansion Prob, Extension Cable, Pro-meter for Radial Vibration Generator Drive End Redial Transient Data Interface Module etc.	0.1	0.1	0.1
Commissioning of 415 V Transformer for 225MW Gas Based Power Plant	0.17	0.09	0.09
Supply of GT Spare of 225 MW Gas Based Power Plant	0.05	0.05	0.05
Power System Study Network Analysis and Relay Coordination	0.06	0.03	0.03
Supply of Fire Fighting for 225 MW Gas Based Power Plant	0.13	0.07	0.07
Lab instruments Micro process Based Universal Temperature & Pressure Indicator's	0.05	0.03	0.03
Commissioning of Switchyard for 225MW Gas Based Power Plant	0.16	0.08	0.08
<b>Total (A)</b>	<b>25.68</b>	<b>13.644</b>	<b>20.66</b>
Assets Written off (B)	0.47	0.47	0.47
<b>Total (C)=(A)-(B)</b>	<b>25.21</b>	<b>13.14</b>	<b>20.19</b>
Other Assets (Civil work, Office equipments, Computer and Vehicles) (D)	0.46	0.46	0.46
<b>Insurance amount received (E)</b>	<b>1.2</b>	<b>1.2</b>	<b>1.20</b>
<b>De-Capitalisation (F)</b>	<b>0</b>	<b>0.34</b>	<b>0.34</b>
<b>Total (D)-(E)-(F)</b>	<b>24.47</b>	<b>12.06</b>	<b>19.11</b>

1. Under the head: “Commissioning of GF1 of 225 MW Gas based Power Plant”

Petitioner has claimed 4.35 crore for commissioning of GT-1, however Commission inadvertently apportioned the same in to 50% by following the methodology and not the actual claimed.

2. Under the head: “Commissioning of GF1 Auxiliary 225 MW Gas Based Power Plant”

Petitioner has claimed 0.51 crore for commissioning of GT-1 Auxiliary 225 MW Gas Based Power Plant, however Commission mistakenly apportioned the same in to 50% by following the methodology and not the actual claimed.

3. Under the head: “Commissioning of BOP Machinery of GF1 of 225 MW Gas Based Power Plant”

Petitioner has claimed 9.17 crore for Commissioning of BOP Machinery of GT-1 of 225 MW Gas Based Power Plant, however Commission mistakenly apportioned the same in to 50% by following the methodology and not the actual claimed.

2.1.5. The Petitioner has approached Hon’ble Commission with a request to correct the above additional capitalization mistakenly done vide letter ref. No.: GIPL/UERC/06/2018, dated 2<sup>nd</sup> April 2018.

2.1.6. Hence request Hon’ble Commission to rework the additional capitalization with Commission’s methodology of 50% and allowing the additional capitalization from Rs.12.06 crore to Rs.19.11 crore and revise the capital cost to Rs.408.07 crore (388.96+19.11) and rework the AFC.

2.1.7. **Initial Spares**- As per Regulation 21(11) of UERC MYT Regulations 2018,

**Initial Spares:** Initial spares shall be capitalized subject to the following ceiling norms as a percentage of the Plant and Machinery cost as per actuals upto the cut-off date:

(i) Thermal generating stations - 4.0%

(ii) Hydro generating stations- 4.0%

(iii) TransmissionSystem

(a) Transmission line - 1.00%

(b) Transmission Sub-station - 4.00

2.1.8. The Petitioner humbly submits before the Hon’ble Commission that it has not considered any initial spares at the time of CoD, and evn now Petitioner could not procure the initial spares due to burden of remaining stranded for more than 3 years and burden of debt services and vendor payments; with recovery of fixed cost at extremely low tariff Petitioner is not left with any money to complete even the O&M expenses and hence it is getting very difficult to procure initial spares as well.

Hence we request Hon’ble Commission to allow Petitioner to capitalize initial spares beyond cut-off date as also requested by petitioner in UERC Draft MYT Regulations and represented the same to Hon’ble Commission to make it part of MYT Regulations considering Petitioner as the stressed case.

2.1.9. **Additional Capitalization**- Regulation 22 of UERC Tariff Regulations 2018 states that:

“22. Additional capitalization:

(1) The following capital expenditure within the original scope of work actually incurred or Projected to be incurred after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

a) Undischarged liabilities;

b) Works deferred for execution;

c) Procurement of initial capital spares within the original scope of work, subject to the provisions of Regulation 21(11);

d) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; and

e) On account of change in law.

Provided that the details included in the original scope of work along with estimates of expenditure, deferred liabilities and the works deferred for execution shall be submitted along with the application for determination of tariff.”

2.1.10. The summary of capital expenditure as planned by the Petitioner during the period 2019-20 to FY 2021-22 is as per the table below:

**Table 4: Additional capital expenditure as planned during FY 2019-20 to FY 2021-22 (Rs in Crores)**

Particulars	2019-20	2020-21	2021-22	Claimed under head
	Projected	Projected	Projected	UERC MYT Regulation 2015
Land	NIL	NIL	NIL	NA
Civil Works	1	2	2	Regulation 22(1) (a) & (b)
Plant & Machinery (Transmission Line)	7	NIL	NIL	Regulation 22(1) (a) & (b)
Plant & Machinery (Spares)	8	10	12	Regulation 22(1) (c)
Furniture and Fixtures	0.20	NIL	NIL	Regulation 22(1) (b)
Office Equipment & Others	0.10	NIL	NIL	Regulation 22(1) (b)
Computers	0.01	NIL	NIL	
Vehicles	0.25	NIL	0.10	Regulation 22(1) (b)
<b>Total (A)</b>	<b>16.56</b>	<b>12</b>	<b>12.1</b>	

- 2.1.11. The Petitioner has projected civil works in FY 19-20 to FY 2021-22 in works related to Main building msintenance, shading, extension of store building. The Petitioner has planned to construct a road to the plant which is leading to lot of dust in enviorment and ultimately leading to choking of GT filters.
- 2.1.12. The Petitioner has projected additional capital expenditure in transmission line taking into consideration that the Petitioner has to build a bay and also Petitioner has to connect second circuit to evacuation point so additional expenditure towards conductor is projected.
- 2.1.13. Petitioner has projected additional expenditure in spares addition in plant as per the table below:

**Table 5: Details of Additional Expenditurein Plant & Machinery**

<b>S.No.</b>	<b>Description</b>	<b>Cost (Rs. Crore)</b>
1	Combustor and Hot Gas Path spares of GT	20.00
2	Emergency DG Set 630 KVA	0.60
3	Filter House Replacement	4.00
4	Extension of ACC cells	2.00
5	VFD for CEP,ACC Fans, STG CCW pump	0.50
6	Testing Equipments	0.30
7	Critical spares	2.00
8	Implementation of ERP	0.20

- 2.1.14. Under the plant and machinery, the Petitioner request to allow 4% of Capital Costs as initial spares as per Regulation 21(11) of UERC MYT Regulations 2018 which it plans to procure in FY 2019-20, FY 2020-21 and FY 2021-22.

## **2.2. Financing Plan**

- 2.2.1. Capital expenditure to be incurred in FY 2019-20, FY 2020-21 and FY 2021-22 are to be financed by a mix of debt and equity in the ratio of 70:30 as per UECR MYT Regulations 2018.

### 3. MAJOR SHUTDOWN PLAN FOR THE PLANT

#### 3.1. Maintenance plan

3.1.1. Availability of a generating unit is dependent on the outages taken for the unit, both forced and planned. While the forced outages are minimized by having a robust maintenance plan, the planned outages are necessary for the smooth functioning of the unit. Either or all the following is included in an outage:

- \* Schedule Preventive Measures
- \* Audit History based Maintenance
- \* Overall Operational Constraints
- \* Technological Upgradation
- \* Performance Improvement Measures
- \* Statutory Compliances
- \* Life Sustenance, Extension, Enhancement Actions

3.1.2. The proposed outage plan for the project during the control period is shown in the tables below:

**Table 6: Maintenance schedule for 2019-20**

MONTH	Gas Turbine / HRSG		Steam Turbine	
	DETAILS	OUTAGE HOURS	DETAILS	OUTAGE HOURS
<b>Apr-19</b>	---	0	---	0
<b>May-19</b>	Offline/online water wash	24	---	0
<b>Jun-19</b>	---	0	---	0
<b>Jul-19</b>	Offline/online water wash	24	---	0
<b>Aug-19</b>	---	0	---	0
<b>Sep-19</b>	Offline/online water wash	24	---	0
<b>Oct-19</b>	---	0	---	0
<b>Nov-19</b>	---	0	---	0
<b>Dec-19</b>	GT: Offline/online water wash, CI, Boroscopic Inspection & HRSG, Annual Inspection - Hydro test Shutdown: 4 days	96	---	0
<b>Jan-20</b>	---	0	---	0

MONTH	Gas Turbine / HRSG		Steam Turbine	
	DETAILS	OUTAGE HOURS	DETAILS	OUTAGE HOURS
<b>Feb-20</b>	Offline/online water wash	24	---	0
<b>Mar-20</b>	---	0	---	0
<b>Yearly</b>		<b>192</b>		<b>0</b>

**Table 7: Maintenance schedule for 2020-21**

MONTH	Gas Turbine / HRSG		Steam Turbine	
	DETAILS	OUTAGE HOURS	DETAILS	OUTAGE HOURS
<b>Apr-20</b>	Offline/online water wash	24	---	0
<b>May-20</b>	---	0	---	0
<b>Jun-20</b>	Offline/online water wash	24	---	0
<b>Jul-20</b>	---	0	---	0
<b>Aug-20</b>	Offline/online water wash	24	---	0
<b>Sep-20</b>	---	0	---	0
<b>Oct-20</b>	Offline/online water wash	24	---	0
<b>Nov-20</b>	---	0	---	0
<b>Dec-20</b>	GT: Boroscopic Inspection & Offline/online water wash, intake air filter replacement & HRSG: Annual Inspection - Hydro test Shutdown: 4 days	96	---	0
<b>Jan-21</b>	---	0	---	0
<b>Feb-21</b>	Offline/online water wash	24	---	0
<b>Mar-21</b>	---	0	---	0
<b>Yearly</b>		<b>216</b>		<b>0</b>

**Table 8: Maintenance plan 2021-22**

<b>MONTH</b>	<b>Gas Turbine / HRSG</b>		<b>Steam Turbine</b>	
	<b>DETAILS</b>	<b>OUTAGE HOURS</b>	<b>DETAILS</b>	<b>OUTAGE HOURS</b>
<b>Apr-21</b>	Offline/online water wash	24	---	0
<b>May-21</b>	---	0	---	0
<b>Jun-21</b>	Offline/online water wash	24	---	0
<b>Jul-21</b>	---	0	---	0
<b>Aug-21</b>	Offline/online water wash	24	---	0
<b>Sep-21</b>	---	0	---	0
<b>Oct-21</b>	Offline/online water wash	24	---	0
<b>Nov-21</b>	---	0	---	0
<b>Dec-21</b>	GT: Boroscopic Inspection, Offline/online water wash, intake air filter replacement & HRSG: Annual Inspection - Hydro test Shutdown: 4 days	96	---	0
<b>Jan-22</b>	---	0	---	0
<b>Feb-22</b>	Offline/online water wash	24	---	0
<b>Mar-22</b>	---	0	---	0
<b>Yearly</b>		216		0

3.1.3. This is estimated maintenance plan subject to actual running of the plant and maintenance required may vary.

#### 4. TRAJECTORY OF PERFORMANCE PARAMETERS

##### 4.1. Trajectory of performance parameters

4.1.1. Following table provides trajectory of performance parameters:

**Table 9: Trajectory of performance parameters**

Parameters	Unit	2017-18	2018-19		2019-20	2020-21	2021-2022
		Actual	Actual	Project ed	Projected	Projected	Projected
Duration		1st Apr 2017 to 31st Mar 2018	Apr'18 to Sep'18	Oct'18 to Mar'19	1st Apr 2019 to 31st Mar 2020	1st Apr 2020 to 31st Mar 2021	1st Apr 2021 to 31st Mar 2022
Number of days		16	153	212	366	365	365
Installed capacity	MW	107	107	214	107	107	107
Aux. (Actual)		2.63%	2.90%	2.50%	2.50%	2.50%	2.50%
Gross Generation Normative	MU	561.200	200.68	388.40	798.90	796.72	796.72
Auxiliary Consumption	MU	14.77	5.82	9.71	19.97	19.92	19.92
Net Generation Normative	MU	546.823	195.158	378.69	778.93	776.80	776.80



## 5. PRAYER

In view of the facts and circumstances presented in the petition, the Petitioner respectfully prays that the Hon'ble Commission may be pleased to:

- a. Admit the accompanying petition;
- b. Approve the Business Plan for GIPL for the Control Period (FY 2019-20 to FY 2021-22) in accordance with Regulation 8 of Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2018.
- c. Revise & approve the Capital Cost of the Project which will be used for determination of Annual Fixed Charges for the Project;
- d. Approve planned outages of Power Station and also grant permission for change in planned outages depending upon requirement of SLDC, Discom and Petitioner;
- e. Allow the Petitioner to make revision to the current petition and submit additional & relevant information that may emerge or become available subsequent to this filing.
- f. Condone any inadvertent omission/ errors/ shortcomings and permit the "Petitioner" to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date.
- g. Pass such other order(s) as this Hon'ble commission may deem fit and proper in the facts and circumstances of the case;
- h. Any other relief that the Hon'ble Commission may deem fit;

**PETITIONER:**

**For: Gama Infraprop Private Limited**

**Rahul Goyal**

*Managing Director*

Dated: 30.11.2018