

Dt 12.11.22

To,

The Secretary,  
Jharkhand State Electricity Regulatory Commission  
Old Building Harmu Housing Board, Harmu  
Ranchi 834002

Kind Attention: Mr. R.P Nayak.

Ref : JSERC/Case (Tariff) No 1 of 2022/205 Dt 14<sup>th</sup> Oct 2022.

Subject: Additional data requirement pertaining to deficiencies observed in the Petition for Multi Year Tariff for FY 2021-22 for FY 2025-26 of Inland Power Limited (IPL).

Dear Sir,

In response to your letter JSERC/Case (Tariff) No 1 of 2022/205 Dt 14<sup>th</sup> Oct 2022 we hereby submit our response and document for your kind perusal and do the needful. Our response is attached as part of Annexure 1 of this letter.

We request you to kindly inform us in case of any further queries on the same.

Thanking You,

For Inland Power Ltd.  
  
Director/Authorised Signatory

Enclosed – Annexure 1 enclosed.

### **Inland Power Ltd.**

**Registered Office:**

P 221/2, Strand Bank Road  
Kolkata - 700001

**Corporate Office:**

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3rd Floor, Flat No-12  
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**Annexure – 1: IPL Response to deficiencies observed by JSERC on Petition Filed by Inland Power Limited for Multi Year Tariff for FY 2021-22 to FY 2025-26**

Sl. No.	Particulars
1.	<b>Editable Word File:</b> The Petitioner is required to submit the editable word file of the Petition.
<b>IPL Response</b>	
IPL humbly submits that the Word File of the Petition is being submitted in a soft copy with this reply.	
2.	<b>Efficiency Improvement and Cost Benefit Analysis:</b> In line with Regulation 6.6 of the JSERC generation tariff Regulation, 2020, IPL is required to submit efficiency improvement, Cost Benefit Analysis associated with the proposed Capital Expenditure (Installation of LDO System, Fly Ash Brick Manufacturing Unit) read with the directive of the JSERC Order dated 22-09-2020 wherein the Commission has directed the IPL to submit DPR along with all the necessary details of works.  In view of the above shortcomings, IPL is directed to submit the requisite details in support of its CAPEX claims.
<b>IPL Response</b>	
IPL humbly submits that the analysis for substitution of HSD with LDO has already been submitted to the Hon'ble Commission vide letter dated 29.12.2020. Considering that more than 22 months have passed since the report on substitution of HSD with LDO had been submitted there has been a high variation in the fuel prices globally as well as probable impact on the estimated capital expenditure for the proposed project. IPL humbly submits to the Hon'ble Commission that as per the latter's order on True Up for FY2019-20 dated 04 <sup>th</sup> November 2022, IPL has been directed to submit the detail proposal for the proposed project before the Commission for approval within two months from the date of this Order. Hence, IPL will submit a revised detailed proposal of the same based on the current price projections within the timeframe required by the Commission.	
IPL humbly submits that the detailed cost and revenue model for Expansion of Fly Ash Brick Plant has been submitted to the Commission on 30.12.2020.	
3.	<b>CAPEX for Fly Ash Manufacturing Unit:</b> It is observed that the Petitioner has already incurred CAPEX towards the development of Fly Ash manufacturing unit during FY 2020-21 itself. It is understood that the instant Petition is governed under JSERC Generation Tariff Regulation, 2020, which is applicable for the Control period FY 2021-22 to 2025-26 (CAPEX on or after 01-04-2021). The Petitioner is directed to clarify on this aspect.
<b>IPL Response</b>	
The Hon'ble Commission has appreciated IPL's effort on increasing fly ash utilization towards ensuring an environmentally friendly operation as well directed IPL to submit the report detailing the enhanced capacity of the Brick plant vide order dated 22.09.2020.  In line with the above, IPL has projected the commissioning of its Fly Ash Brick Manufacturing Unit of 2.00 Lakh ton of Fly Ash/ Annum (80% operating capacity) by March 2021. The March 2021 timeline for the commissioning was done taking an optimistic view despite the covid-19 related delays.	





However, the Fly Ash Unit achieved commissioning only in July 2021. Thus, IPL humbly submits to the Hon'ble Commission to allow the proposed capex for Fly Ash Unit during this control period.

**4. Board Certificate:** The petitioner has failed to provide the Board Certificate for approval of equity infusion of Rs 2.46 Cr and Rs 4.01 Cr towards (Installation of LDO System, Fly Ash Brick Manufacturing Unit) in the Capex projected for the period in FY 2021-26

**IPL Response**

IPL humbly submits that it is attaching the Board Certificates for the above in Annexure 1 of this document.

**5. Re-payment during the FY 2021-22:** As per table 9 of the Petition, IPL has considered re-payment during the year at Rs 27.43 Cr. which does not resemble with the Depreciation claim for the FY 2021-22 (Rs 17.96 Cr.). The said observation is in contravention to the clause 15.15 of the JSERC generation Tariff Regulation 2020.

**IPL Response**

IPL submits that it has considered the repayments in line with historical loan repayment trends as well as the proposed life of the LDO system and Fly Ash Unit projects. IPL humbly submits to the Hon'ble Commission to approve the proposed repayments, considering the actual loan portfolio projection and the commensurate repayments requirement to run the power plant smoothly and efficiently.

**6. Weighted Average rate of Interest:** For the computation of Weighted Average Rate of Interest, IPL has considered Opening and Closing Loan equivalent to the normative Opening and Closing loan for the respective years of the Control Period. The said approach is violation of the Clause 15.18 of JSERC Generation Tariff Regulation, 2020 which allow computation of Weighted Average rate of Interest based upon the actual loan portfolio. IPL is directed to explain the reason for being in variance with the tariff Regulations.

IPL humbly submits that it has projected the individual loan wise interest repayments considering average of projected opening and closing loan balances along with the interest rate for each loan. These were then aggregated and used to derive the weighted average interest rate for each financial year of the Control Period.

IPL humbly submits that the average interest rate derived through this method has provided the weighted average interest rate of the actual loan portfolio.

IPL prays to the Hon'ble Commission to allow the weighted average interest rate computed by IPL for MYT Period.

**IPL Response**

**7. Expected commissioning date:** The computation of Depreciation for FY 2021-22 has been claimed by IPL considering the asset capitalization of Rs 8.21 Cr. as on 01-04-2021. However, the IPL has not provided any substantial evidence in such regard. Be that as it may, the IPL is directed to provide the expected commissioning date for the proposed items of the CAPEX.

**IPL Response**

IPL humbly submits that the Fly Ash Unit was commissioned on 17<sup>th</sup> July 2021. IPL also submits that the capital expenditure for Fly Ash unit was incurred in line with directions of the Hon'ble Commission to enhance the fly ash brick plant as well as to meet the MoEF norms to ensure environment friendly Fly Ash Utilization.





IPL humbly submits that it has not incurred the capital expenditure to install LDO systems as the same is yet to be approved by the Hon'ble Commission. Once the Hon'ble Commission approves the projected capital expenditure for LDO system, IPL will submit a revised timeline for installation of the LDO system.

**8. Operational parameters and IOWC:** The JSERC Generation tariff Regulation, 2020 define the norms of operation for thermal power generators. The table below depicts the operational norms as per the Regulations vis a vis the Petitioner's claim (Tariff Filing Format- Cost Sheet)

Particulars	Operational Norms as per the Regulations	Operational parameters as per IPL
PAF (%)	85	82.50
PLF (%)	85	82.50
Gross Station Heat rate (kcal/kwh)	2765	2931
Auxiliary Consumption (%)	10.00	11.15

The Petitioner has computed IOWC without considering the operational norms (JSERC Regulations 2020). IPL is required to explain such anomaly.

**IPL Response**

**IPL humbly submits that detailed prayer for justification of consideration of the operational parameters projected by IPL was submitted as part of the Business Plan for MYT as well as the MYT Petition. IPL humbly submits the following prayer for consideration of the same below:**

**Plant Availability Factor**

As per the JSERC Generation Tariff Regulations 2020, the Normative PAF approved by the Commission is 85% for the 2021-22 to 2025-26 control period.

The relaxation of PLF for CFBC boilers was also provided in CERC Tariff Regulations 2009-14. Relevant portion of the regulation is reproduced below:

"26.(f). Normative Annual Plant Availability Factor (NAPAF)....

(f) Lignite-fired Generating Stations using Circulatory Fluidized Bed Combustion (CFBC) Technology -

1. First three years from COD - 75%
2. From next year after completion of 3 years of COD - 80%"

The reasons for this relaxation are further elaborated in the Statement of Objects and Reasons for CERC Tariff Regulations (2009-14).

"28.6 ..... With regard to lignite fired stations using CFBC technology are concerned, we found that the availability in initial years was of the order of 76% in case of surat lignite fired station and gradually picked up thereafter. In view of this we are providing for a norm of 75% during first three years of COD and thereafter, retaining a norm of 80%. In respect of the new lignite power stations with PF Boilers, availability norms have been combined with the coal power fire stations at 85%"

It is further submitted that other State ERCs also, provided relaxation in PLF for CFBC boilers. For instance, in Rajasthan, as per RERC Tariff Regulations, 2009 PLF for CFBC Plants is gradually increased to 80% during a period of five years -





"46.1. Target Availability for recovery of full Capacity (Fixed) charges for thermal power stations ... (a)

... (iii) Lignite fired thermal power stations using CFBC technology:

For the first year of operation	70%
For second year of operation	72.5%
For third year of operation	75.0%
For fourth year of operation	77.5%
Fifth year and onwards	80.0%

It is pertinent to note that APTEL in its judgement on "Appeal No. 182 of 2010" has clarified that the relaxation in PLF for CFBC will be applicable to both coal based and lignite based Stations as the relaxation is for the technology being used, not the fuel.

The Petitioner would like to further submit that the relaxation of PLF for CFBC boilers is provided in CERC Tariff Regulations 2019-24. The extract of the same is reproduced below:

"49. Norms of operation for thermal generating station

.....  
(A) Normative Annual Plant Availability Factor (NAPAF)

.....  
(e) For Lignite fired Generating Stations using Circulatory Fluidized Bed Combustion (CFBC) Technology and Generating stations based on coal rejects:

1. First Three years from the date of commercial operation – 75%
2. For next year after completion of three years of the date of commercial operation – 80%

.....  
This Hon'ble Commission also had set a NAPAF target of 82.5% for FY2016-17 to FY 2020-21 as per its order in Case No. 06 and 11 of 2016 dated 16<sup>th</sup> May 2017. Relevant portion of the order is reproduced below:

.....  
8.53. After considering the above, the Commissions finds the submission of the Petitioner appropriate and has considered the same for approving the NAPAF for the current MYT period.

**Table 45: NAPAF approved by the Commission**

Particulars	Unit	FY 17	FY 18	FY 19	FY 20	FY 21
Plant availability factor	%	82.50	82.50	82.50	82.50	82.50

Particulars	Unit	FY 21	FY 22	FY 23	FY 24	FY 25
Plant availability factor	%	82.50	82.50	82.50	82.50	82.50

.....  
Thus, after considering the above facts, IPL currently proposes a PAF of 82.50% in line with the Commission's approved figures as per its order in Case No. 06 and 11 of 2016 dated 16<sup>th</sup> May and requests the Hon'ble Commission to approve the same as follows:





### Plant Load Factor

The Plant Load Factor was projected in line with the proposed Plant Availability Factor. IPL requests the Hon'ble Commission to approve the proposed PLF.

### Gross Station Heat Rate

The Hon'ble Commission in its Tariff Regulations, 2020 has considered a Gross Station Heat Rate of 2765 KCal/KWh for Inland Power Limited.

The petitioner also submits that as specified in JSERC regulations 2010, the norms of operation for SHR of new generating stations for Coal-based and lignite-fired Thermal Generating Stations =  $1.065 \times \text{Design Heat Rate (KCal/KWh)}$  where, the Design Heat Rate of a unit means the unit heat rate guaranteed by the supplier at conditions of 100% MCR, zero percent make up, design coal and design cooling water temperature/back pressure.

The TG cycle heat rate for the proposed boiler was 2166 Kcal/kwh. With a boiler efficiency of 79.5% and with a margin of 6.5% as per regulation, the Petitioner had requested the Honourable Commission to approve a Gross Station heat rate of 2902 Kcal/kwh.

The Commission vide letter no JSERC/legal/07 of 2013/222 dated August 26, 2013 directed the Petitioner to submit report/ study conducted by independent technical expert to verify the boiler efficiency of 79.5%. The Petitioner vide letter dated November 12, 2013 submitted the required information. Thus, the Commission after scrutinizing the additional information submitted approves the gross station heat rate in accordance with the formula specified in Regulation 8.6 (b) (i) of the Generation Tariff Regulations 2010, the projected base heat rate and boiler efficiency as per the Independent technical evaluation report, for the Control Period at 2,902 Kcal / KWh (vide order dated May 2014 Clause 7.28, Page 32).

The petitioner submits that the historical SHR of the power plant has varied due to the change in fuel mix, use of fuel with high ash etc. which are due to uncontrollable factors.

Item	FY16	FY17	FY18	FY19	FY20
Station Heat Rate (KCal/KWh)	2931.25	2902.00	2902.00	2991.00	3113.33
Item	FY22	FY23	FY24	FY25	FY26
Station Heat Rate (KCal/KWh)	2931.25	2931.25	2931.25	2931.25	2931.25

The Petitioner therefore proposes to consider SHR of 2931.25 KCal/KWh based on past performance of the power plant and also considering difficult operating conditions and uncontrollable change in fuel mix. The table below shows the SHR as considered by IPL for the current Control Period.

### Auxiliary Consumption

IPL submits that during the commissioning period of the power plant, as per the prevailing CERC Regulations, for lignite fired stations using CFBC technology, the auxiliary energy consumption norms was 1.5% more than the auxiliary energy consumption norms of coal-based generating stations. Relevant portion of the Regulation is reproduced below: (CERC Tariff Regulations 2009, sub-clause 26)





"for Coal based units up to a capacity of 200 MW with Induced Draft Cooling tower is allowed a normative auxiliary consumption of 8.5% + 0.5%.  
.....  
Provided that for the lignite fired stations using CFBC technology, the auxiliary energy consumption norms shall be 1.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations at (iv) (a) above."

Hence the CERC norm for auxiliary consumption of lignite based CFBC plants, up to 200 MW with induced draft cooling tower was 10.5%.

IPL submits that as per the 'Recommendations on Operation Norms for Thermal Power Stations for Tariff Period beginning 1st April 2009', of CEA higher auxiliary consumption the generating station of IPL should also be allowed in regard to the CFBC technology. The relevant portion of the report is being reproduced below:

"14.6 The CFBC boilers involve higher auxiliary consumption due to higher pressure drops and consequently higher fan power as compared to the pulverized fuel fired units. Also, these units involve additional power consumption for limestone handling, crushing and firing for control of SOX emissions. However, CFBC units do not require pulverizers as the fuel is fed in crushed form and thus there is a corresponding saving in the power consumption in pulverizers as compared to the pulverized fuel technology.

14.7 NLC have asked for an additional AEC of 1% on account of CFBC boiler technology and additional 0.5% on account of uncertainty etc. that may be faced as the CFBC units are being implemented by them for the first time and past operation data is not available. Thus they have asked for an AEC of 11% for TPS Expn II and 12% for Barsingsar TPS on account of additional AEC of 0.67% for cooling water pumping from a distant source (60 kms)  
An assessment of incremental auxiliary consumption for CFBC units has been made and it is found that the CFBC units entail higher auxiliary energy consumption of 0.7% to 1%. However, in the present case of NLC stations, the limestone is being procured in the powder form and consequently the power consumption for limestone crushing is eliminated and thus the incremental consumption should be on the lower side. Thus, an additional auxiliary energy consumption of 1.0% may be allowed to NLC stations with CFBC boilers."

CFBC IPL also submits that CFBC boilers involve higher auxiliary consumption due to higher pressure drops & consequently higher fan power as compared to the pulverized fuel fired units.

Other SERCs have also proposed higher auxiliary consumption for CFBC boilers presented below:

- In case of Raj West Power Limited, RERC has allowed an Auxiliary Consumption of 11.5%
- In case of Gujarat Industries Power Company Ltd, GERC has allowed an Auxiliary Consumption of 12.5% for 3 years and 11.5% from the 4th year
- In case of Bajaj Energy Pvt Ltd, UPERC has allowed an Auxiliary Consumption of 11.5% during stabilization and 11% - post stabilization period.

The Petitioner humbly submits the actual achieved Auxiliary Consumption as below:

Particulars	Unit	FY 16	FY 17	FY 18	FY 19
Auxiliary Consumption	%	11.26	11.26	10.95	11.15
Particulars	Unit	FY 21	FY 22	FY 23	FY 24
Auxiliary Consumption	%	11.15	11.15	11.15	11.15

Considering the historical achieved Auxiliary Consumption, IPL currently proposes Auxiliary Consumption of **11.15%** based on past performance and requests the Hon'ble Commission to approve the same as follows:





Thus, considering the above prayers, IPL had computed the IoWC considering the performance parameter projections and to factor in the actual ground challenges to meet these performance targets. IPL humbly prays to the Hon'ble Commission to approve the proposed performance parameters by IPL and allow IoWC on the basis of these performance parameters.

**9. Increase in O&M costs:** The IPL vide para 2.9.16 of its Petition submits that the increase in O&M cost is due to the handling and disposal of an increased quantity of Ash which is due to Change in Fuel mix. As per the direction of Commission, IPL was directed to submit to Commission a consolidated report on Change in Fuel mix along with Business Plan and MYT Petition, however, the same has not been provided. IPL is required to submit the same.

#### IPL Response

**IPL humbly submits that it has been submitting the quarterly report on fuel change mix to the Hon'ble Commission. The consolidated report for FY2019-20, FY2020-21, FY2021-22 and for FY2022-23 (up to September 2022) is being attached as annexure 2 of this document.**

IPL humbly submits that since it doesn't have any fuel linkage, it's procuring fuel from various sources like:

- E -Auction CIL coal
- Shakti Scheme
- Coal from the forward auctions
- Washery Rejects of CCL
- Rejects from Tata Steel

IPL has projected a blending ratio of 35:65:00 for Coal-Coal Rejects-Dolochar. The price of coal and coal rejects has been escalated by 3% and 5% respectively on year-on-year basis.

It is to be noted that based on the availability of coal input the blending ratio of Coal and Coal rejects has changed significantly from the approved figures. The transit loss has been considered at a normative value of 0.8% as per Regulation 17.11 of the Tariff Regulations 2020.

Further IPL submits that out of the above 5 sources it has identified, E-Auctions by CIL have been sporadic and the price of coal has been very high compared to the special forward auctions. IPL further submits the auction conditions mandate 10% EMD and 100% advance payment of the coal procured in the e-auctions of CCL against "cash and carry" model offered by other coal sources. As IPL has been facing delayed payments by JBVNL, it has to arrange fund on its own sources which makes the advance payment criteria difficult to fulfil.

IPL would also like to bring to the kind attention to the Hon'ble Commission that the actual coal blending ratio and prices have changed significantly from the projections proposed in its MYT Petition. The Covid-19 Pandemic, global geo-political scenario as well as the coal supply situation for CBFC power projects has led in high variation and prices for coal which are beyond the control of IPL. IPL humbly submits the proposed coal blending ratio and prices projected in MYT petition as well as the actual coal blending ratio and prices for FY2020-21 and H1 of FY2021-22.

Parameters	Units	Base Year: FY2020-21		FY2021-22	
		Estimated	Actual (Submitted in True Up)	Projected in MYT	Actual - H1 FY2021-22
Ratio of Coal in Primary Fuel (Coal-Coal rejects-Dolochar) Mix		0.29	0.34	0.35	0.45





Ratio of Coal rejects in Primary Fuel (Coal-Coal rejects-Dolochar) Mix	0.71	0.66	0.65	0.55
Ratio of Dolochar in Primary Fuel (Coal-Coal rejects-Dolochar) Mix	0.00	0.00	0.00	0.00
Weighted Average GCV of Coal	k.cal/kg 3632.37	3628.50	3551.26	3525.04
Weighted Average GCV of Coal rejects	2189.21	2049.14	1916.24	1820.75
Weighted Average GCV of Dolochar	k.cal/kg 0.00	0.00		0.00
Weighted Average GCV of Primary Fuel	k.cal/kg 2604.41	2579.80	2488.50	2587.68
Rate of Coal/MT	Rs./MT 2762.56	2727.54	2669.54	2843.56
Rate of Coal rejects/MT	Rs./MT 1869.53	1686.51	1476.18	1396.55
Rate of Dolochar/MT	Rs./MT 0.00	0.00	0.00	0.00
Rate of Primary Fuel/MT	Rs./MT 2126.45	2036.30	1893.86	2047.69
Transit loss of Primary Fuel	% 0.01	0.01	0.01	0.01

As can be seen in the table above the projected ratio of Primary Fuel projected in MYT for FY2021-22 had changed from proposed 35:65:0 for Coal: Coal Rejects: Dolochar to 45:55:0. Also the rate of primary fuel in H1 of FY2021-22 has increased on an overall basis from projection of Rs. 1893.86 / MT (before transit loss) to Rs. 2047.69 / MT (before transit loss) which represents an increase of 8% in the rate itself. The geo-political situation persistent since February 2022 and the coal supply situation in India has also led to increase of over 100% in coal prices discovered through E-Auction in some cases. The impact of these price increase would be visible in the filings of True Up for FY2021-22 and APR of FY2022-23. IPL humbly requests to the Hon'ble Commission to consider the actual coal supply situation which is drastically different from the projections proposed in MYT petition due to reasons beyond the control of IPL.

**IPL also humbly submits that it has informed JBVNL on the changing fuel parameters and its impact on the fuel price to the latter on a monthly basis as part of the FPA Bills that IPL submits to JBVNL along with the supporting documents. The fuel supply scenario and increase in coal prices which are beyond the reasonable control of IPL is a well-known fact to JBVNL. JBVNL also has been prudently checking the bills and making payments accordingly to IPL.**







**EXTRACT OF MEETING OF BOARD OF DIRECTORS OF INLAND POWER LIMITED  
HELD AT CORPORATE OFFICE AT 30 CHOWRINGHEE ROAD, 3<sup>RD</sup> FLOOR, FLAT NO -  
12, KOLKATA 700 016 ON FRIDAY, 30<sup>TH</sup> AUGUST, 2019 AT 11.00AM.**

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The Board considering the use of Fly Ash generation from the power plant and to keep the clean energy had decided to expand its existing Brick Plant Manufacturing unit, a unit of Inland Power Limited under the existing name & style – Inland Ash Products, a unit of Inland Power Limited. The matter was discussed and the following resolution passed.


**RESOLVED THAT** the Company has decided to expand its existing Brick Plant Manufacturing unit based on the project report submitted and to be funded either through Internal cash flows or external borrowings.

**FURTHER RESOLVED THAT** the unit will be utilizing the ash being generated by Thermal power plant of Inland Power Limited.

Sri Naveen Somani, Executive director of the company be and is hereby authorised to perform all activities, and file all necessary papers, documents necessary in this regard."

**Certified True Copy**

**For INLAND POWER LTD.**

  
**Company Secretary**

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**Inland Power Ltd.**

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**InlandPower**

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**EXTRACT OF MEETING OF BOARD OF DIRECTORS OF M/S. INLAND POWER LIMITED HELD AT CORPORATE OFFICE AT 30 CHOWRINGHEE ROAD, 3<sup>RD</sup> FLOOR, FLAT NO -12, KOLKATA 700 016 ON WEDNESDAY, 4<sup>th</sup> NOVEMBER, 2020 AT 11.00AM.**

Considering the Compliance note and directives issued by Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC) regarding use of LDO as alternative secondary fuel in place of HSD oil, the management has decided to hire a technical consultant to advise in the matter of Installation of LDO system. The management further decided to Install the LDO system on the basis of the consultant report and approval of the cost of Project by the Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC).


The Board considering the Cost Benefit Analysis and other factors based on the report submitted by the consultant and decided to use LDO as Secondary fuel for Power Plant and passed the following resolution.

**"RESOLVED THAT** as per the LDO report submitted by the consultant and considering other necessary factors the company has decided to use LDO as Secondary fuel for power Plant as per the approval of the project by the Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC) ."

Sri Naveen Somani, Executive director of the company be and is hereby authorised to perform all activities, after the approval of the project by the Hon'ble Jharkhand State Electricity Regulatory Commission (JSERC) and take necessary initiative for the implementation of the Project."

**Certified True Copy**

**For INLAND POWER LTD.**

  
**Company Secretary**

**Inland Power Ltd.**

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For June 2019 quarter		Actual	
Particulars	As per MYT order did.	16-05-2017	Actual
Coal	54%	39.97%	60.03%
Reject	43%	3%	0
Dolachar	100%	100%	100%
Total		3,061.19	2,853.11
Avg GCV		1,910.61	2,529.92
Avg Rate		1,910.61	2,529.92
0.867			
Month		Coal	
QTY	GCV	Value	QTY
Apr-19	8,849.36	31,563,875.87	28,466,422.61
May-19	7,978.85	28,813,614.72	26,976,535.51
Jun-19	15,869.37	58,304,052.55	51,784,955.19
Total	32,697.58	119,087,543.14	107,229,913.31
Avg GCV		107,229.913.31	59,492,818.31
Avg Rate		46,336,552.85	71,676.82
162,098,535.94			
148,522,433.52			
119,406.29			
340,678,897.39			
302,088,899.68			
2,853.11			
2,529.92			

For September 2019 quarter		Actual	
Particulars	As per MYT order	16-05-2017	Actual
Coal	54%	62.09%	62.09%
Reject	43%	37.91%	37.91%
Dolachar	100%	100%	100%
Total		3,061.19	3,094.95
Avg GCV		1,910.61	2,673.99
Avg Rate		1,910.61	2,673.99
0.8640			
Month		Coal	
QTY	GCV	Value	QTY
Jul-19	15,988.30	58,680,068.28	50,839,848.31
Aug-19	23,505.02	84,616,358.12	71,332,805.76
Sep-19	15,647.01	56,329,235.78	47,485,322.82
Total	55,140.33	199,625,662.18	169,657,886.90
Avg GCV		169,657.886.90	13,261.14
Avg Rate		48,512,251.47	37,396,847.05
41,769.71			
110,171.18			
68,401.48			
41,769.71			
110,171.18			
68,401.48			
41,769.71			
110,171.18			

For December 2019 quarter		Actual	
Particulars	As per MYT order	16-05-2017	Actual
Coal	54%	38.55%	38.55%
Reject	43%	61.45%	61.45%
Dolachar	100%	100%	100%
Total		3,061.19	2,774.92
Avg GCV		1,910.61	2,408.40
Avg Rate		1,910.61	2,408.40
0.868			
Month		Coal	
QTY	GCV	Value	QTY
Oct-19	13,046.09	46,965,909.53	39,592,143.27
Nov-19	7,181.19	25,852,291.39	21,793,416.43
Dec-19	2,457.99	8,847,320.34	7,458,666.73
Total	22,684.87	81,665,521.26	68,843,828.43
Avg GCV		68,843.828.43	10,151.68
Avg Rate		34,960,093.11	28,222,909.14
52,395.85			
120,018,497.54			
108,308,250.72			
85,272.39			
246,624,111.92			
205,369,988.29			
2,774.92			
2,408.40			

For March 2020 quarter		Actual	
Particulars	As per MYT order	16-05-2017	Actual
Coal	54%	16.56%	16.56%
Reject	43%	83.44%	83.44%
Dolachar	100%	100%	100%
Total		3,061.19	2,484.30
Avg GCV		1,910.61	2,174.45
Avg Rate		1,910.61	2,174.45
0.875			
Month		Coal	
QTY	GCV	Value	QTY
Jan-20	-	-	-
Feb-20	-	-	-
Mar-20	-	-	-
Total	-	-	-
Avg GCV		-	-
Avg Rate		-	-
22,658.69			
75,029,637.10			
62,504,329.62			
114,176.68			
264,910,361.56			
235,037,676.69			
136,835.37			
339,939,998.66			
297,542,006.30			
2,484.30			
2,174.45			

As per MYT order did.		Cumulative for the	
Particulars	16-05-2017	year	June 19 qtr.
Coal	54.00%	38.01%	40.03%
Reject	43.00%	61.99%	59.97%
Dolachar	100.00%	100.00%	100.00%
Total	100.00%	100.00%	100.00%
Avg GCV	3,061.19	2,785.74	3,094.95
Avg Rate	1,910.61	2,434.43	2,550.27
PER GCV	0.874	0.874	0.887
0.875			





## Consumption of Fuel for June 2020 quarter

For September 2020 quarter																	
Particulars	As per MYT order		Actual														
Coal	54%		33.65%														
Reject	43%		66.33%														
Dolachar	3%		0														
Total	100%		100%														
Avg GCV	3,061.19		2,595.00														
Avg Rate	1,910.61		2,065.71														
					Month	Qty	Coal GCV	Value	Qty	Shakti GCV	Value	Qty	Rejects GCV	Total	Avg GCV	Avg Rate	
					Jul-20	6,013.11	21,021,186.25	16,821,154.35	6,013.11	23,695,703.07	16,853,481.45	28,061.16	62,441,313.23	53,736,487.12	40,087.37	107,158,202.54	87,411,122.93
					Aug-20	5,629.20	19,507,329.75	15,694,628.81	5,629.20	20,509,242.64	15,282,924.56	26,269.61	54,725,858.27	45,449,451.27	37,528.02	94,742,430.67	76,427,004.64
					Sep-20	13,389.16	45,476,945.83	35,225,355.78	4,463.05	16,366,505.55	11,284,267.44	26,778.32	53,484,256.94	42,213,316.60	44,630.53	115,327,708.31	86,686,939.80
					Total	25,031.47	86,005,461.83	67,741,138.92	16,105.36	60,571,451.25	43,384,673.46	81,109.09	170,651,428.44	141,399,254.99	122,245.91	317,228,941.52	252,525,067.37
																2,595.00	2,065.71

## 0.7960

Summary of Fuel Mix	Qty	%	GCV	Rate
Coal	41,136.83	33.65%	3,563.16	₹ 2,701.37
Rejects	81,109.09	66.35%	2,103.97	₹ 1,743.32
<b>Total</b>	<b>122,245.91</b>		<b>2,595.00</b>	<b>₹ 2,065.71</b>

as per MYT order

Sl. No.	Coal	Coal		Shakti		Rejects		Total		Avg GCV	Avg Rate		
		Value	Qty	GCV	Value	GCV	Value	Qty	GCV			Value	
4	45,831,185.98	₹ 35,537,746.18	4,508.32	16,671,657.03	₹ 11,800,170.71	27,049.92	53,001,160.22	₹ 40,629,607.17	45,083.21	115,504,003.24	₹ 87,967,524.06	2,562.02	₹ 1,951,227.39
5	483,81,85.98	₹ 19,372,007.75	7,209.75	27,673,163.38	₹ 19,918,866.13	33,645.52	63,958,884.34	₹ 49,403,467.00	48,065.03	115,040,881.46	₹ 88,694,340.88	2,393.44	₹ 1,845,300.47
6	23,408,833.73	₹ 19,372,007.75	7,209.75	27,673,163.38	₹ 19,918,866.13	33,645.52	63,958,884.34	₹ 49,403,467.00	48,065.03	115,040,881.46	₹ 88,694,340.88	2,393.44	₹ 1,845,300.47
7	6,687,434.05	₹ 5,938,975.47	3,716.96	14,975,629.90	₹ 10,604,042.17	18,584.78	35,015,682.40	₹ 26,998,464.76	24,779.70	58,878,746.35	₹ 43,541,482.39	2,368.02	₹ 1,757,141.39
8	77,927,453.77	₹ 60,888,729.41	15,435.03	59,320,450.31	₹ 42,333,079.01	79,280.22	151,975,726.96	₹ 117,031,538.92	117,927.94	289,723,631.04	₹ 220,203,347.34	2,452.55	₹ 1,867,272.27
Summary of Fuel Mix													
	Coal		38,647.72		32.77%		3,551.26	₹ 2,669.54					
	Rejects		79,280.22		67.23%		1,916.94	₹ 1,476.18					
	Total		117,927.94				2,452.55	₹ 1,867.27					

## INLAND POWER LIMITED

	Shakti		Rejects		Total	
	Value	Qty	Value	Qty	Value	Qty
1	25,565,450.13	5,702.55	23,751,944.79	17,101,422.55	22,810.20	42,642,054.73
2	34,548,722.89	6,501.91	24,915,406.57	17,782,154.32	23,840.35	44,526,044.40
3	27,004,098.66	8,047.30	28,809,914.63	22,018,251.11	22,130.06	41,605,389.45
4	87,118,271.68	20,251.76	77,477,265.99	56,301,827.99	66,780.61	128,774,088.58
						103,084,817.99
						121,599.57
						323,160,658.43
						247,104,917.66
						2,653.92
						2,038.25
						90,995,867.17
						2,688.06
						2,099.25
						2,645.21
						1,953.93
						2,657.58
						2,032.12
Summary	Qty	%	GCV	Rate		
Coal	52,818.95	43.44%	3,680.24	2,726.67		
Rejects	68,780.61	56.56%	1,877.24	1,498.75		
Total	121,599.57		2,657.58	2,032.12		

Particulars	As per MYT order dtd. 16-05-2017	Cum for the year	June 20 qtr.	Sep 20 qtr.	Dec 20 Qtr.	Mar 21 Qtr.
Coal	54.00%	33.60%	23.07%	33.65%	32.77%	43.44%
Reject	43.00%	66.40%	76.93%	66.33%	67.23%	55.56%
Dolcher	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100%
Avg GCY	3,061.19	2,579.67	2,515.33	2,595.00	2,452.55	2,657.58
Avg Rate	₹ 1,910.61	₹ 2,036.34	₹ 2,214.89	₹ 2,065.71	₹ 1,867.27	₹ 2,032.12





INLAND POWER LIMITED

Consumption of Fuel for June 2021 quarter													
As per MYT order dtd. 16-05-2017													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Apr-21	18,817.46	64,986,678.07	50,271,024.43	2,352.18	8,247,442.08	6,002,770.11	25,874.01	48,644,119.23	34,610,136.26	47,043.66	121,878,239.38
Reject	43%	May-21	17,928.37	63,113,604.77	50,191,960.00	2,510.41	8,802,248.02	6,406,552.60	24,980.74	46,543,639.41	35,135,177.74	45,419.52	118,459,492.20
Dolachar	3%	Jun-21	17,185.39	60,964,490.57	48,716,419.54	-	-	-	21,004.36	38,730,529.12	31,694,658.23	38,189.75	99,695,019.69
Total	100%												
Avg GCV	3,061.19	Total	53,931.22	189,064,773.41	149,179,403.97	4,862.60	17,049,690.09	12,409,322.71	71,859.11	133,918,287.77	101,439,972.43	130,652.93	340,032,751.27
Avg Rate	1,910.61												
Summary of Fuel Mix													
			Qty	%	GCV	Rate							
			58,793.82	45.00%	3,505.72	2,748.40							
			71,859.11	55.00%	1,863.62	1,411.65							
		Total	130,652.93		2,602.57	2,029.29							

INLAND POWER LIMITED

Consumption of Fuel for September 2021 quarter													
As per MYT order dtd. 16-05-2017													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Jul-21	17,997.58	63,588,344.41	52,228,861.02	-	-	-	21,997.05	39,862,311.57	33,913,401.47	39,994.63	103,450,655.98
Reject	43%	Aug-21	20,748.33	73,947,763.39	59,964,016.45	-	-	-	25,359.06	44,435,810.92	34,880,383.54	46,107.39	118,383,574.31
Dolachar	3%	Sep-21	11,645.24	39,821,337.38	33,526,152.00	9,316.19	34,249,764.47	29,657,229.45	25,619.53	45,490,877.52	32,035,305.86	46,580.96	119,561,979.37
Total	100%												
Avg GCV	3,061.19	Total	50,391.15	177,357,445.19	145,719,029.46	9,316.19	34,249,764.47	29,657,229.45	72,975.64	129,789,000.01	100,829,090.88	132,682.98	341,396,209.66
Avg Rate	1,910.61												
Summary of Fuel Mix													
			Qty	%	GCV	Rate							
			59,707.34	45.00%	3,544.07	2,937.26							
			72,975.64	55.00%	1,778.53	1,381.68							
		Total	132,682.98		2,573.02	2,081.69							

INLAND POWER LIMITED

For December 2021 quarter													
As per MYT order													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Oct-21	18,152.18	66,028,898.36	53,380,683.47	-	-	-	18,152.18	32,599,812.82	24,665,785.21	36,304.37	98,628,711.18
Reject	43%	Nov-21	12,741.69	45,019,018.65	35,626,484.03	8,494.46	31,580,517.42	23,933,076.96	21,236.15	38,445,072.83	31,405,898.60	42,472.30	115,044,608.90
Dolachar	3%	Dec-21	23,471.68	84,074,324.83	64,974,719.10	-	-	-	23,471.68	43,265,675.34	29,359,372.01	46,943.36	127,340,000.17
Total	100%												
Avg GCV	3,061.19	Total	54,365.55	195,122,241.85	153,981,886.60	8,494.46	31,580,517.42	23,933,076.96	62,860.01	114,310,560.99	85,431,055.82	125,720.02	341,013,320.25
Avg Rate	1,910.61												
Summary of Fuel Mix													
			Qty	%	GCV	Rate							
			62,860.01	50.00%	3,606.47	2,830.34							
			62,860.01	50.00%	1,818.49	1,359.07							
		Total	125,720.02		2,712.48	2,094.70							

INLAND POWER LIMITED

For March 2022 quarter													
As per MYT order													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Jan-22	19,238.40	71,285,920.25	56,090,682.94	-	-	-	23,513.60	43,397,129.70	29,783,447.78	42,752.00	114,683,049.95
Reject	43%	Feb-22	9,686.59	34,126,059.69	29,087,828.60	7,749.27	27,099,476.17	19,925,476.82	21,310.49	39,734,267.35	32,312,689.35	38,746.35	100,959,803.21
Dolachar	3%	Mar-22	-	-	-	6,972.83	24,054,518.20	17,746,874.46	6,972.83	13,173,211.47	10,948,572.48	13,945.66	37,227,729.66
Total	100%												
Avg GCV	3,061.19	Total	28,924.99	105,411,979.95	85,178,511.53	14,722.10	51,153,994.37	37,672,301.28	51,796.92	96,304,608.51	73,044,709.61	95,444.00	252,870,582.83
Avg Rate	1,910.61												
Summary of Fuel Mix													
			Qty	%	GCV	Rate							
			43,647.08	45.73%	3,587.09	2,814.64							
			51,796.92	54.27%	1,859.27	1,410.21							
		Total	95,444.00		2,649.41	2,052.47							

Summary of Fuel Mix			
Coal	Qty	%	GCV
Rejects	Qty	%	GCV
Total	Qty	%	GCV

Summary of Fuel Mix			
Coal	Qty	%	GCV
Rejects	Qty	%	GCV
Total	Qty	%	GCV

As per MYT order dtd. 16-05-2017													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Jan-22	19,238.40	71,285,920.25	56,090,682.94	-	-	-	23,513.60	43,397,129.70	29,783,447.78	42,752.00	114,683,049.95
Reject	43%	Feb-22	9,686.59	34,126,059.69	29,087,828.60	7,749.27	27,099,476.17	19,925,476.82	21,310.49	39,734,267.35	32,312,689.35	38,746.35	100,959,803.21
Dolachar	3%	Mar-22	-	-	-	6,972.83	24,054,518.20	17,746,874.46	6,972.83	13,173,211.47	10,948,572.48	13,945.66	37,227,729.66
Total	100%												
Avg GCV	3,061.19	Total	28,924.99	105,411,979.95	85,178,511.53	14,722.10	51,153,994.37	37,672,301.28	51,796.92	96,304,608.51	73,044,709.61	95,444.00	252,870,582.83
Avg Rate	1,910.61												

As per MYT order dtd. 16-05-2017													
Particulars	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	Avg GCV
Coal	54%	Jan-22	19,238.40	71,285,920.25	56,090,682.94	-	-	-	23,513.60	43,397,129.70	29,783,447.78	42,752.00	114,683,049.95
Reject	43%	Feb-22	9,686.59	34,126,059.69	29,087,828.60	7,749.27	27,099,476.17	19,925,476.82	21,310.49	39,734,267.35	32,312,689.35	38,746.35	100,959,803.21
Dolachar	3%	Mar-22	-	-	-	6,972.83	24,054,518.20	17,746,874.46	6,972.83	13,173,211.47	10,948,572.48	13,945.66	37,227,729.66
Total	100%												
Avg GCV	3,061.19	Total	28,924.99	105,411,979.95	85,178,511.53	14,722.10	51,153,994.37	37,672,301.28	51,796.92	96,304,608.51	73,044,709.61	95,444.00	252,870,582.83
Avg Rate	1,910.61												





INLAND POWER LIMITED

Consumption of Fuel for June 2022 quarter															
Particulars	As per MYT order dtd. 16-05-2017	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value
Coal	54%	56.67%	Apr-22	10,709.51	38,334,313.04	32,112,416.95	14,993.31	53,260,134.78	38,323,389.38	17,135.21	32,375,753.72	24,927,680.29	42,838.03	123,970,201.53	95,363,486.62
Reject	43%	43.33%	May-22	19,246.93	69,543,337.28	59,396,949.84	4,292.63	15,248,534.12	10,972,099.73	19,316.83	35,531,098.42	34,261,362.41	42,856.39	120,322,969.82	104,650,411.97
Dolachar	3%	0	Jun-22	15,050.82	55,347,553.67	51,852,627.72	7,322.02	25,849,916.68	20,102,058.99	18,305.06	31,756,870.01	52,373,859.98	40,677.90	112,954,340.36	124,328,546.69
Total	100%	100%	Total	45,007.26	163,225,203.99	143,361,994.51	26,607.96	94,358,585.57	69,397,548.10	54,757.10	99,663,722.15	111,562,902.67	126,372.32	357,247,511.71	324,322,445.28
Avg GCV	3,061.19	2,826.94													
Avg Rate	1,910.61	2,586.94													
Consumption of Fuel for September 2022 quarter															
Particulars	As per MYT order dtd. 16-05-2017	Actual	Month	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value	Qty	GCV	Value
Coal	54%	39.81%	Jul-22	7,251.10	26,934,005.19	28,864,682.43	4,834.06	18,099,725.21	15,087,695.34	14,770.75	24,312,700.50	51,123,494.65	26,855.91	69,346,430.90	95,075,872.42
Reject	43%	60.19%	Aug-22	10,448.07	39,337,549.93	46,908,834.76	10,835.04	41,605,664.64	33,000,800.57	17,413.45	28,818,082.95	63,123,377.29	38,696.56	109,761,297.51	143,033,012.62
Dolachar	3%	0	Sep-22	2,856.35	11,608,890.92	17,344,970.50	6,120.75	23,864,217.24	18,623,525.69	31,827.92	58,083,488.94	90,171,594.78	40,805.02	99,556,597.10	126,140,090.97
Total	100%	100%	Total	20,555.52	77,880,446.04	93,118,487.69	21,789.85	83,569,607.09	66,712,021.61	64,012.12	111,214,272.39	204,418,466.72	106,357.49	272,664,325.51	364,248,976.01
Avg GCV	3,061.19	2,563.66													
Avg Rate	1,910.61	3,452.16													
Summary of Fuel Mix															
Coal				Qty	%	GCV				Rate					
Rejects				42,345.37	39.81%	3,812.70				3,774.45					
Total				64,012.12	60.19%	1,737.39				3,193.43					
				106,357.49		2,563.66				3,452.16					

Particulars	As per MYT order dtd. 16-05-2017	Cumm for the year	June 22 qtr.	Sep 22 qtr	Dec 22 Qtr	Mar 23 Qtr
Coal	54.00%	48.97%	56.67%	39.81%	0.00%	0.00%
Reject	43.00%	51.03%	43.33%	60.19%	0.00%	0.00%
Dolachar	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	0%
Avg GCV	3,061.19	2,706.62	2,826.94	2,563.66	-	-
Avg Rate	1,910.61	2,958.67	2,586.94	3,452.16	-	-

