REQUEST FOR SUBMISSION OF

EXPRESSION OF INTEREST FOR

THE THIRD ROUND OF AUCTION OF COAL LINKAGES

UNDER PARAGRAPH B(ii) OF THE SHAKTI POLICY

FOR

IPPs HAVING ALREADY CONCLUDED LONG TERM PPAs

ISSUED BY

PFC CONSULTING LTD.

(A Wholly owned Subsidiary of Power Finance Corporation Ltd. – A Govt. of India Undertaking)

Corporate Office: 9th Floor (A Wing) Statesman House, Connaught Place, New Delhi – 110001

Issued on January 8, 2020

DISCLAIMER:

*The information contained in this request for submission of expression of interest ("**EOI**") for third round of auction (the "**Auction**") of coal linkages for IPPs (as defined below) having already concluded long term power purchase agreements ("**PPAs**") in accordance with paragraph B(ii) of the New More Transparent Coal Allocation Policy for Power Sector, 2017 – SHAKTI (Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India) ("**SHAKTI Policy**") ("**Request for Submission of EOI**"), or information subsequently provided to any IPP (as defined below), prospective bidder, bidder (as defined below), person, party, participant, applicant or interested party ("**Prospective Bidder**"), whether verbally or in documentary or any other form by or on behalf of PFC Consulting Limited ("**PFCCL**" or the "**Authorised Representative**") and/or any of its employees or advisors, is provided to the Prospective Bidder(s) on the terms and conditions set out in this Request for Submission of EOI.*

*This Request for Submission of EOI is issued after vetting of the same by Central Electricity Authority ("**CEA**") and Coal India Limited ("**CIL**"). This Request for Submission of EOI is neither an agreement nor an offer by PFCCL to the Prospective Bidders or any other person. The purpose of this Request for Submission of EOI is to provide the Prospective Bidders with information that may be useful to them in making their EOI. This Request for Submission of EOI includes statements which reflect various assumptions and assessments arrived at by PFCCL in relation to the power sector. Such assumptions, assessments and statements do not purport to contain all the information that each Prospective Bidder may require. This Request for Submission of EOI may not be exhaustive or appropriate for all persons and it is not possible for PFCCL / CIL / CEA, its employees or advisors to consider the investment objectives, financial situation and particular needs of each Prospective Bidder who refers to, reads or uses this Request for Submission of EOI. The assumptions, assessments, statements and information contained in this Request for Submission of EOI may not be complete, accurate, adequate or correct. Each Prospective Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the statements and information contained in this Request for Submission of EOI and obtain independent advice from appropriate sources before submitting its EOI.*

Information provided in this Request for Submission of EOI to the Prospective Bidder(s) has been collated from several sources, some of which is subject to interpretation of the applicable law. The information given is not intended to be an exhaustive account of statutory requirements and should be used as or for reference only. PFCCL / CIL does not accept any responsibility for the accuracy or otherwise for any statement contained in this Request for Submission of EOI.

PFCCL / CIL / CEA, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Prospective Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Request for Submission of EOI or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of this Request for Submission of EOI and any assessment, assumption, statement or information contained therein or deemed to form part of this Request for Submission of EOI or arising in any way from participation in the Auction.

PFCCL / CIL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused, arising from reliance by any Prospective Bidder upon the statements contained in this Request for Submission of EOI.

Notwithstanding anything contained in this Request for Submission of EOI, PFCCL may, in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment, process or assumptions contained in this Request for Submission of EOI.

The issuance of this Request for Submission of EOI does not imply that PFCCL is bound to select or shortlist any Prospective Bidder and PFCCL reserves the right (without incurring any liability) to reject all or any of the Prospective Bidders, as the case may be, without assigning any reason whatsoever.

Each Prospective Bidder shall bear all its costs associated with or relating to registration, preparation and submission of its EOI or relating to its EOI. Nothing contained in this Request for Submission of EOI shall be binding on PFCCL or confer any right on the Prospective Bidders.

*Pursuant to this Request for Submission of EOI, PFCCL will be uploading on the Electronic Platform (as defined below) the scheme document setting out the mechanism for conduct of the Auction ("**Scheme Document**") and the definitive document(s). In case of any inconsistency between this Request for Submission of EOI and the Scheme Document and the definitive document(s), the Scheme Document and the definitive document(s) shall be final and shall prevail, in the manner specified under the relevant document.*

REQUEST FOR SUBMISSION OF EOI

1. Registration

1.1. Ministry of Coal ("**MoC**") has *vide* its letter dated May 22, 2017 dealt with matters concerning "Signing of Fuel Supply Agreement (FSA) with Letter of Assurance (LoA) holders of Thermal Power Plants - Fading Away of the existing LoA-FSA Regime and Introduction of a New More Transparent Coal Allocation Policy for Power Sector, 2017 - SHAKTI (Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India)" and issued the amendment to the SHAKTI Policy dated March 25, 2019 ("**Amendment**").

1.2. Paragraph B(ii) of the SHAKTI Policy *inter alia* provides that CIL/SCCL may grant coal linkages on notified price on auction basis for IPPs having already Concluded PPAs. Accordingly, two rounds of auction have been successfully conducted under paragraph B(ii) of the SHAKTI Policy.

1.3. Subsequently, a Notice Inviting Registration (the "**Notice**") for third round of Auction of Coal Linkages under paragraph B (ii) of the SHAKTI Policy has been issued on January 8, 2020. Pursuant to the Notice dated January 8, 2020, independent power producers, which are generating companies not owned/controlled by the Central/State Government ("**IPP**"), meeting the Eligibility Criteria (as set out in Clause 3 below) and which are desirous of participating in the Auction through their Specified End Use Plant(s) (as defined below), are required to register such Specified End Use Plant(s) on the website of the service provider (M/s MSTC Ltd) ("**Electronic Platform**") ("**Bidder**"), no later than the timeline as may be prescribed, against payment of a non-refundable fee of Rs. 10,000/- plus applicable taxes.

1.4. The link for registration on the Electronic Platform is provided below:

https://www.mstcecommerce.com/auctionhome/shakti/indexr3.jsp

1.5. Each Bidder's registration shall be linked to a Specified End Use Plant and each Specified End Use Plant may be registered only once.

In this context, "**Specified End Use Plant**" shall mean one or more power generating units (but does not mean and include a captive power plant as defined under Rule 3 of the Electricity Rules, 2005) situated in a single location within the same boundary located in India and owned by the Bidder.

1.6. The Bidders who have already registered their Specified End Use Plant on the Electronic Platform during any of the previous rounds of auction of coal linkages under paragraph B(ii) of the SHAKTI Policy are not required to register the said Specified End Use Plant again under this Auction. It is clarified that all Bidders, including the Bidders who have already registered their Specified End Use Plant, would be required to submit the EOI pursuant to this Request for Submission of EOI.

2. Submission of Expression of Interest

2.1. Each Bidder is required to upload on the Electronic Platform the duly executed and stamped EOI in the format set out in **Annexure I**, no later than the timeline as may be prescribed. Bidders are requested to upload the document by January 23, 2020 at 17:00 hrs.

2.2. Additionally, the documents set out in Paragraph 1(iv)-(ix) of **Annexure I** are also required to be submitted in original in sealed envelopes, setting out on the covering envelope "*Original Documents for SHAKTI Scheme Auction – Round 3*", no later than the timeline as may be prescribed. The Bidders must also mention the name of the Bidder submitting the documents on the envelope. The sealed envelope(s) shall be submitted at the following address:

Executive Vice President,

PFC Consulting Limited,

9th Floor, A Wing, Statesman House,

Barakhamba Road, Connaught Place,

New Delhi – 110001

2.3. All the other documents set out in this Request for Submission and the EOI format provided at **Annexure I** are required to be uploaded on the Electronic Platform. The Bidders may contact the following officials of MSTC Limited / PFCCL for seeking assistance on the login or registration process or any clarification regarding the auction process:

Sl. No.	***Name***	***Email***	***Contact No***
1.	MSTC Helpdesk		011 – 23217850/ 23212357/ 23215163
2.	Sh. Chirag Sindhu	chiragsindhu@mstcindia.co.in	9830336290
3.	Sh. S D Sharma	sdsharma@mstcindia.co.in	7878055855
4.	Sh. Anubhav Kansal (PFCCL)	shakti_pfccl@pfcindia.com	011 – 23443910

2.4. The information submitted by the Bidder as part of the EOI shall be verified by the Central Electricity Authority, on the basis of the documentation/ information submitted by each Bidder.

2.5. In case any additional information is required, the same shall be provided by the Bidder within the specified timeframe.

2.6. The maximum quantity of coal that can be allocated to a Specified End Use Plant will be corresponding to 90% quantity at 85% PLF.

2.7. Consumption norms as per CEA have been provided for information in **Annexure II** hereto.

3. Eligibility Criteria

The Bidder would be required to comply with the following basic and additional eligibility criteria to be able to submit the EOI:

3.1. Basic Eligibility Criteria

3.1.1. The Bidder having valid already Concluded PPAs in respect of the Specified End Use Plant(s) registered under Clause 1 above. In this regard, "**Concluded PPA**" shall mean an executed long term PPA (both under section 62 and section 63 of the Electricity Act, 2003), based on domestic coal, which has been adopted or approved by the appropriate regulatory commission on or before May 17, 2017.

3.2. Additional Eligibility Criteria

3.2.1. A Bidder having valid already Concluded PPA(s) in respect of the Specified End Use Plant(s) and not having, in respect of such Specified End Use Plant(s), as on the last date of submission of EOI, the following (as may be notified on the Electronic Platform separately):

(a) any coal linkage at all or having coal linkage for quantity which is less than 90% of their coal requirement, computed as per the Consumption Norms prescribed in **Annexure II**; and/or

(b) any coal mine/coal block or having coal mine/coal block for quantity which is less than 90% of their coal requirement, computed as per the Consumption Norms prescribed in **Annexure II**.

For the purposes hereof, (a) and/or (b) in respect of a Specified End Use Plant shall be referred to as the "**Allocated Coal Block/ Letter of Assurance (LoA)/ Linkage**" and the Bidder may bid for the balance quantity of coal.

It is hereby clarified that with respect to such Specified End Use Plant, the Bidder whose:

(i) coal block(s) has(ve) been de-allocated and the Bidder furnishes clearance of MoC to this effect, on or before the last date for submission of EOI; and/or

(ii) letter of assurance ("**LoA(s)**") / linkage(s) has(ve) been cancelled by the MoC / Standing Linkage Committee (Long Term) ("**SLC(LT)**"),

may also participate in the Auction, if such Bidder does not, as on the last date of submission of EOI, hold any Allocated Coal Block/ Letter of Assurance (LoA)/ Linkage in respect of such Specified End Use Plant.

Provided, however that, with respect to the Specified End Use Plant, if a Bidder meets the Eligibility Criteria specified in this Clause 3 and has a letter of assurance / linkage / fuel supply agreement awarded under paragraph B(iii) of the SHAKTI Policy in respect of such Specified End Use Plant(s), the same shall not be considered as the Allocated Coal Block/ Letter of Assurance (LoA) / Linkage under this Clause 3.2.1. In that case, once FSA for B(ii) linkage is signed, Letter of Assurance (LoA)/ Linkage/ FSA for B(iii) will automatically be terminated.

3.2.2. The Verification Certificate to be provided and certified by DISCOM, as per the format specified in **Appendix II**, should not be dated and issued prior to the date of issuance of this Request for Submission of EOI.

3.2.3. The Bidder should be the owner of the Specified End Use Plant(s) registered under Clause 1.

3.2.4. The Specified End Use Plant should have already been commissioned or should have a target commissioning date no later than March 31, 2022.

3.2.5. The Bidder shall not have been convicted for wrongful utilization of coal by the Central Bureau of Investigation or any other governmental authority or statutory or judicial body.

3.2.6. Existing linkage holders are not allowed to surrender their LoA/ fuel supply agreement to participate in this Auction.

ANNEXURE I

FORMAT OF EXPRESSION OF INTEREST

(*On the letterhead of the Bidder*)

Date:

Sub: Expression of Interest ("EOI")

[*Insert name and Service Provider Registration No. of the Specified End Use Plant*]

Dear Sir,

With reference to the request for submission of expression of interest for the third round of auction of coal linkages for IPPs having already concluded long term PPAs dated [*insert*] ("**Request for Submission**"), we hereby express our interest to participate in the Auction and submit the following documents and information for your consideration:

1. Documents and Information

(i) MSTC Registration Number:

(ii) Name of the Bidder:

(iii) Details of the Specified End Use Plant:*

Sr. No	Particulars	Unit	
1.	Name of the Specified End Use Plant		
2.	Location of the Specified End Use Plant		
3.	Type of Fuel (Coal/ Washery Reject based)		
4.	Date of Commissioning of the Specified End Use Plant**		
5.	Capacity of the Specified End Use Plant	MW	
6.	Capacity of the Specified End Use Plant against which there is a Concluded PPA based on domestic coal	MW	
7.	Number of Concluded PPAs and details of each such PPA (including expiry date of the PPA)		
8.	Station Heat Rate***	kCal/kWh	
9.	Technology (sub-critical, super critical etc.)		
10.	Main Steam Pressure	Ata	
11.	Motor Driven Boiler Feed Pump (MDBFP)	Yes/No	

Sr. No	Particulars	Unit	
12.	Details of existing linkage (if any)	TPA	
13.	Details of the LoA/ linkage cancelled by MoC/ SLC(LT) 1. Quantity for which the linkage was awarded 2. Grade of coal 3. Date of Cancellation		
14.	Name of the captive coal mine, if any		
15.	Peak-rated capacity of the captive coal mine	TPA	
16.	Grade of coal of the captive coal mine		
17.	Percentage of power sold on merchant basis (of generation capacity of the Specified End Use Plant linked to coal mine)	%	
18.	Details of the coal block de-allocated (if any) 1. Name of the coal block(s) 2. Capacity of the coal block(s) including the peak rated capacity 3. Grade of coal 4. Details of the plant linked to the coal block along with the respective quantities 5. Date of De-allocation		
19.	Details of Coal Linkage secured under SHAKTI B(iii), if any, for the said PPA along with DISCOM Certificate		

**In case two or more units are combined and registered as a Specified End Use Plant, the Bidder has to provide the above details for each such unit.*

***In case the Specified End Use Plant is yet to be commissioned, kindly provide the anticipated commissioning date of the Specified End Use Plant. The Bidder shall intimate CIL, six months in advance, about any change in the commissioning schedule of their Specified End Use Plant.*

****In case the Regulator has approved a higher SHR, the Bidder should specify the same along with supporting documents. However, in all such cases, quantity of Coal will be calculated on SHR with upper ceiling of 2,600 kCal/ kWh.*

(iv) With respect of each registered Specified End Use Plant, copy(ies) of all executed PPAs which have been adopted and/or approved by the appropriate regulatory commission on or before May 17, 2017. *Please ensure that if the size of the PPA*

exceeds 10 (ten) MB, the PPA shall be split into parts such that the size of each part does not exceed 10 (ten) MB.

(v) Relevant corporate authorizations of the Bidder for executing this EOI viz. notarised Power of Attorney in the format set out in **Appendix I** and certified true copy of board resolution and/or certified true copy of shareholders resolution etc. The said documents are to be submitted in original in the manner prescribed in the Request for Submission.

(vi) Letter/Certificate from the respective DISCOM for each Specified End Use Plant in the format set out in **Appendix II**.

(vii) Documents evidencing existing linkage(s), if applicable (e.g. current and existing fuel supply agreements, copy of LoA/ LoI issued by CIL or its subsidiary etc.) and/or captive coal mine(s), if applicable (e.g. copy of vesting order, mining plan or any other document evidencing the ownership, peak-rated capacity etc. of the captive coal mine). *Please ensure that the size of such documents does not exceed 10MB (in size).*

(viii) Relevant documents for cancellation of LoA or coal linkage by MoC/ SLC (LT), if applicable. *Please ensure that the size of such documents does not exceed 10MB (in size).*

(ix) Copy of letter of clearance issued by MoC with respect to de-allocation of the coal block(s), if applicable.

2. We, the undersigned, are duly authorized to represent and act on behalf of [*insert name of the Bidder*] and having reviewed and fully understood all information provided in the Request for Submission and having considered all relevant information, wish to hereby express our continued interest in the auction.

3. We hereby submit our EOI and we further confirm that we meet the Eligibility Criteria as per Clause 3 of the Request for Submission.

4. We hereby agree, undertake, understand and declare as under:

   a. Without prejudice to the foregoing, notwithstanding any qualifications or conditions, whether implied or otherwise, contained in our EOI, we hereby represent and confirm that our EOI is unqualified and unconditional and is without any deviations, conditions or any assumptions in all respects;

   b. We declare that in the event PFC Consulting Limited ("**PFCCL**") discovers anything contrary to the above declarations, it is empowered to forthwith disqualify us and our EOI from further participation in the auction;

   c. We undertake that in case due to any change in facts or circumstances or the applicable laws during the auction, we are attracted by the provisions of disqualification, we shall intimate PFCCL of the same immediately; and

   d. PFCCL may, in its sole, absolute and unfettered discretion, reject or accept any EOI and/or cancel/modify the auction.

5. We undertake to provide any additional documents/information as may be required in this regard. We shall make available to PFCCL any additional documents/information it may find necessary or require to supplement or authenticate this EOI.

6. We hereby undertake and confirm that the documents provided and information given herein is true, complete, accurate and correct and is not false, misleading and/or incorrect,

in any manner whatsoever. If the information provided is discovered to be false, misleading and/or incorrect, we shall be liable under applicable laws for the time being in force and subject to the consequences envisaged in the Scheme Document and the definitive document(s).

7. We have not surrendered our letter of assurance(s)/fuel supply agreement(s) for the purpose of participating in this auction.

8. This EOI shall be governed by and construed in all respects according to the applicable laws being in force in India.

9. All the terms used herein but not defined, shall have the meanings as ascribed thereto under the Request for Submission.

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Signature of the Authorised Signatory

Name and designation of the Authorised Signatory:

Name of the Bidder:

Stamp of the Bidder:

Date:

Place:

ANNEXURE I

Appendix I

Format of Power of Attorney

[*To be stamped in accordance with the relevant Stamp Act and notarized*]

Know all men by these presents, that we, [*name and registered office address of Bidder*] do hereby irrevocably constitute, nominate, appoint and authorise Mr./ Ms [*name of Attorney*], son/daughter/wife of [*name of father/spouse of Attorney*] and presently residing at [*address of Attorney*], who is presently employed with us and holding the position of [*designation or relation with the Bidder*], as our true and lawful attorney (hereinafter referred to as the "**Attorney**") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to participation in auction process, in response to documents, including but not limited to, the Notice Inviting Registration dated January 8, 2020, the Request for Submission of EOI for auction of coal linkages for IPPs having already concluded long term PPAs dated [*date of the Request for Submission*] ("**Request for Submission**") and any other document(s) issued by PFC Consulting Limited ("**PFCCL**") in this regard (collectively referred to as the "**Documents**") including but not limited to signing (including through affixation of digital signatures) and submission of all applications, affidavits, bids and other documents and writings, participate in bidders' and other conferences and providing information/responses to PFCCL, representing us in all matters before PFCCL, and generally dealing with PFCCL in all matters in connection with or relating to or arising out of our bid for the coal linkages and/or upon award thereof to us and/or till the entering into of the fuel supply agreement with the relevant subsidiary.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this power of attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

All capitalized terms used but not defined herein shall have the meanings ascribed to them in the Documents.

IN WITNESS WHEREOF WE, [*name of the Bidder*], THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS [*date*] DAY OF [*month*], [*year*].

For [*name of the Bidder*]

(Signature, name, designation and address)

Witnesses:

1.

2.

Accepted Notarised

(Signature, name, designation and address of the Attorney)

Notes:

i. *The power of attorney to be submitted by the Bidder shall substantially be in the format set out above.*

ii. *The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down under the applicable law and the charter documents of the executant(s), and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*

iii. *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution authorizing the execution of this power of attorney.*

iv. *For a power of attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and appropriately notarised in the relevant jurisdiction. However, the power of attorney provided by Bidders from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming apostille certificate.*

v. *The power of attorney must be issued in the name of the person whose digital signature would be used to sign the documents on the Electronic Platform.*

ANNEXURE I

Appendix II

Format of Certification from DISCOM

Sub: Verification Certificate

Pursuant to paragraph B(ii) of the Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India dated May 22, 2017 issued by the Ministry of Coal ("**SHAKTI Policy**") and the Amendment, we have verified the validity and enforceability of the following concluded long term power purchase agreement(s) ("**PPA(s)**") set out in **Schedule 1** below.

We hereby certify that, having regard to the provisions of the SHAKTI Policy, each of the abovementioned executed long term PPA(s) has been adopted or approved by the appropriate regulatory commission on or before May 17, 2017 and the Bidder meets the Basic Eligibility Criteria specified in the Request for Submission of EOI dated [*date of Request for Submission*] ("**Request for Submission**").

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(Signatory)

ANNEXURE I

Schedule 1 to Appendix II

Sr. No	Item	Description	Remarks
1.	Name of project/Specified End Use Plant		
2.	Capacity (MW) and unit configuration		
3.	Name of Developer as per Co. registration / Registration No.		
4.	COD (Actual / Anticipated)		
5.	Status of PPA Name of DISCOM / Lead Procurer (in case of more than one PPA details may be furnished separately for each PPA)		
6.	If the PPA has been signed as Back to Back with Trader the following details may be furnished.		
	i. Name of the Trader		
	ii. PPA capacity (MW)		
	iii. Date of signing of PPA with Trader		
	iv. Tenure		
7.	Capacity (MW) for which PPA has been signed either directly with DISCOM / Lead Procurer or through Trader as back to back (specify Gross capacity, in case of Net capacity approved Aux. consumption and Transmission loss if any shall be taken in to		

Sr. No	Item	Description	Remarks	
	account)			
8.	Tenure (Years)			
9.	Date of signing of PPA with DISCOM			
10.	Effective date of supply of Power as per PPA			
11.	Actual date of supply of Power			
12.	PPA valid up to (date) :			
13.	Remaining period of the PPA in Years			
14.	Source of coal as per PPA and adopted by Regulator			
15.	If the PPA has been adopted by Regulator (Yes / No) if Yes furnish date of adoption and effective date of PPA.			
16.	If PPA signed through MoU or tariff based competitive Bidding			
17.	In case PPA signed through MoU whether two part tariff or single part tariff or on variable cost etc.			
a.	Fixed Charge and Variable Charge for 1st year and levellised tariff to be furnished.		Fixed Charge	Variable Charge
b.	1st Year			
c.	Levellised			
18.	In case PPA signed through tariff based Competitive Bidding furnish the following:			
19.	Whether competitive bidding is as per competitive bidding guidelines and standard bidding documents			

Sr. No	Item	Description	Remarks	
	issued by MoP			
20.	If not, furnished details about basis of competitive bidding			
21.	Fixed Charge and Variable Charge for 1st year and levellised tariff to be furnished.		Fixed Charge	Variable Charge
a.	1st Year			
b.	Levellised			

Signature of Authorised Person

of Project Developer

Date

Name

Designation

Seal

Signature of Authorised Person

of DISCOM/Lead Procurer

Date

Name

Designation

Seal

ANNEXURE II

CONSUMPTION NORMS

The normative coal requirement for different sizes of power plants.

Grade of Coal	GCV of Coal (kcal/kg)	CERC allowed storage loss (kcal/kg)	GCV considered (kcal/kg)	Subcritical units				Super critical units $
				Less than 100 MW	100 MW to less than 200 MW	200 MW to less than 250 MW *	250 MW and above $	
				Unit Heat Rate (kcal/kWh)				
				2600	2600	2500	2375	2250
				Annual coal consumption at 85% PLF (Tonnes per MW per Annum)				
G1	7000	85	6915	2800	2800	2692	2557	2423
G2	6700	85	6615	2927	2927	2814	2673	2533
G3	6400	85	6315	3066	3066	2948	2800	2653
G4	6100	85	6015	3219	3219	3095	2940	2785
G5	5800	85	5715	3388	3388	3257	3094	2931
G6	5500	85	5415	3575	3575	3438	3266	3094
G7	5200	85	5115	3785	3785	3639	3457	3275
G8	4900	85	4815	4021	4021	3866	3673	3479
G9	4600	85	4515	4288	4288	4123	3917	3711
G10	4300	85	4215	4593	4593	4416	4196	3975
G11	4000	85	3915	4945	4945	4755	4517	4279
G12	3700	85	3615	5355	5355	5149	4892	4634
G13	3400	85	3315	5840	5840	5615	5335	5054

G14	3100	85	3015	6421	6421	6174	5865	5557
G15	2800	85	2715	7131	7131	6856	6514	6171
G16	2500	85	2415	8016	8016	7708	7323	6937
G17	2200	85	2115	9153	9153	8801	8361	7921

Note(s):

CERC had notified the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 on 7th March, 2019 which would be applicable for the period 2019-24. Proviso 43(2) of the regulations provides for calculation of Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis. In determination of ECR, Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations less 85 kCal/kg on account of variation during storage at generating station is being considered by the Commission. Accordingly, less 85kCal/kg has been considered GCV while arriving at the annual coal consumption.

* In case of main stem pressure is 150 ata or above the Unit Heat Rate shall be reduced by 100 kcal/kWh

$ In case of units of 500 MW and above size including Supercritical units having Motor Driven Boiler Feed Pump (MDBFP), the unit heat rate shall be reduced by 50 kCal/ kWh.

a. Following formula may be used for conversion of coal consumption to MTPA/ 1000 MW:

   MTPA per 1000 MW = Tonnes per MW per Annum / 1000

b. The transit and handling losses shall be as per norms prescribed in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 which is 0.2% for pithead and 0.8% for non-pithead stations.

c. These norms will be applicable for Captive Power Plants also.