

**OFFICE OF THE SUPERINTENDING ENGINEER
OPERATION AND MAINTENANCE CIRCLE-II
ANPARA 'D' THERMAL POWER STATION
U.P. RAJYA VIDYUT UTPADAN NIGAM LTD.
P.O.: ANPARA, DISTT.: SONEBHADRA**

INVITATION FOR EXPRESSION OF INTEREST

PART-1

Supply of Limestone for Flue Gas De-Sulphurisation Plant of 2x500MW, DTPS Anpara,

The 2X500MW, DTPS, Anpara is a unit of UPRVUNL a Govt of UP undertaking. The site of Anpara Thermal Power Project is situated at the border of U.P. and M.P. at the southernmost tip of Distt. Sonebhadra in U.P. and on the left bank of Rihand Reservoir along National Highway No. 75 near the village Anpara at about 3 Km from the existing Renusagar Thermal Power Station. The nearest railway station is Anpara on BG East Central Railway line,

UPRVUNL invites "Expression of Interest (EOI)" for assessing market response for short listing of Purchasers/Agencies for further course of action such as long term tie up/ MOUs/ Tendering or any combination of the said three options, for the supply of limestone of the order of **340 Tons/day** with purity greater than 90% as CaCO₃. The agency is required to submit details along with limestone physical and chemical characteristics as per format to be obtained from UPRVUNL site. Interested parties are requested to refer the terms and conditions of the EOI at UPRVUNL website (www.uprvunl.org) before submitting their EOI. The details may be submitted in sealed envelopes as per the format obtained from UPRVUNL site.

It may be noted that submission of EOI does not in any way constitute any kind of commitment on the part of UPRVUNL. For more details, may please contact:

Name: Er. Pramod Kumar, SE (O&MC-II, DTPS, Anpara), Pin-231225

e-mail se.mcc.dtps.anpara@uprvunl.org , [Mob-9415900856](tel:9415900856)

Er. Ashok Kumar, EE (BMD-I, DTPS, Anpara), Pin-231225

e-mail, ee.bmd_1.dtps.anpara@uprvunl.org, [Mob-9415903062](tel:9415903062)

Last Date for submission-20 March-2022 through e-mail and in Hard Copy in closed enveloped

Note: Suppliers/Purchasers/Agencies can submit EIO offer separately of any part or combinedly for both parts of Limestone (Part-1) and Gypsum (Part-2).

DETAILED INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR SUPPLYING OF LIMESTONE FOR FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTPS, Anpara

EOI No.: 01/BMD-I/DTPS/2022-23

Date: 14/02/2022

1. INTRODUCTION

Ministry of Environment, Forest, and Climate change, in its' gazette notification dated 7th December 2015, has amended the Environment (Protection) Rules, 1986, which inter alia, makes it binding to Thermal Power Plants to reduce Sulphur di oxide (SO₂) emission below the prescribed limit, depending on Unit size and year of installation of Power Plants. For the purpose of capturing SO₂ from the flue gas before emission, Flue Gas Desulphurization (FGD) plants are required to be installed in the Flue gas path. In complying with the said gazette notification, UPRVUNL shall also install an FGD plant in its 2X500MW, ATP, Anpara Plant. As an input to FGD plants, Limestone (CaCO₃) is required in huge quantities. Through this EOI, UPRVUNL desires to assess the domestic and international market for supply of Limestone of required quality to 2X500MW, DTPS, Anpara Site.

EXPRESSION OF INTEREST (EOI) FOR **SUPLYING OF LIMESTONE FOR FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTPS, Anpara**

1. 0 SCOPE OF THE EXPRESSION OF INTEREST (EOI)

1.1 The scope of EOI is for supply of limestone 2X500MW, DTPS, Anpara Plant, for meeting the requirement of Flue Gas Desulphurization (FGD) Unit, with purity equal or greater than 90% on CaCO₃ basis.

2.0 TERMS AND CONDITIONS OF THE EXPRESSION OF INTEREST (EOI)

2.1 The FGD system of Unit No-07 of 2X500MW, DTPS, Anpara, is likely to be commissioned in **March 2023 and Unit no-06 by June 2023**; agencies should plan for the supply of limestone accordingly.

2.2 The interested parties should be able to supply limestone as per required quantity and quality Mine Owners/ Suppliers/ Agencies shall submit EOI. It may be noted that submission of EOI does not, in any way, constitute any kind of commitment on the part of UPRVUNL.

2.3 The interested Mine Owners/ Suppliers/ Agencies shall make their own arrangement for Transportation of limestone up to UPRVUNL, 2X500MW, DTPS, Anpara.

2.4 UPRVUNL reserves the right to assess the capacity/ capability of the applicant and viability of proposal, based on verification of documents and if required, cross verification for establishment of the capable applicant(s).

2.5 UPRVUNL reserves the right to accept or reject any or all applications, cancel/withdraw the EOI process without assigning any reason whatsoever in case situation arises, and in such a case no applicant shall have any claim arising out of such action.

2.6 Interested Mine Owners/ Suppliers/ Agencies shall ensure proper care and constant vigil of transportation activities for any damages to any existing properties, which may result in Environmental hazards in any way, in case of award.

2.7 Interested Mine Owners/ Suppliers/ Agencies shall have to abide by the guidelines of the Central Government/ State Government and ensure compliance, in case of award.

2.8 All applicable safety norms to be followed by the interested Mine Owners/ Suppliers/Agencies while handling, transportation and unloading of limestone, in case of award.

2.9 All possible measures will have to be taken by the interested Mine Owners/ Suppliers/Agencies, to avoid pollution while transporting, in case of award. **No spillage of limestone** will be permitted.

2.10 If due to erection or site constraint specific vehicle is required then same will be informed to firm.

2.11 Penalties shall be imposed as per Nigam rules

2.12 Bidders may visit the site of FGDs installation (2X500MW, DTPS, Anpara), for better understanding of the system and issues before submission of EOI. The owner shall provide all cooperation to the representative of the bidder in obtaining the required information during the visit to site.

SECTION-III: **FORM** OF APPLICATION & SCHEDULES

Schedule I

Form of Application of EOI for Supply of Limestone

(TO BE PRINTED ON THE LETTER HEAD OF THE INTERESTED **SUPPLIER/** AGENCY AND SIGNED)

Ref No.

Date:

(This is only an enquiry for short listing of agencies towards enlistment for Supply of Limestone for the Flue Gas Desulphurization (FGD) Units of UPRVUNL at 2X500MW, DTPS, Anpara Thermal Power Projects/Stations).

SE-O&MC-II
2X500MW, DTPS,
Anpara, (Sonebhadra)
, INDIA-231225

Dear Sir,

We are interested in supply of Limestone for UPRVUNL, 2X500MW, DTPS, Anpara Plant. We here by express our willingness to participate in RFP as and when UPRVUNL invites the proposal for the same.

With reference to your invitation for EOI dated _____, we are furnishing herewith all the required details as per the prescribed Schedules:

Name of the Company and Address	
Whether the company is Govt. firm / Private owned	
Are you a Mine Owner/ Supplier/ Agency	
Name of Mine/ Warehouse/ Port from where supply will be made	
If you are supplying to industries, kindly provide details of experience as per format at Schedule III .	
Limestone Characteristics	Details to be provided as per the format Enclosed in Schedule IV .
Preferred Mode of transportation of Gypsum Whether Rail or Road	
Preferred Mode of Supply of Limestone to the designated place near or inside the plant boundary Whether Rail or Road	

Size and Quantity of limestone available		
Purity of Limestone		
Batch size of Limestone to be transported		
Specify sizes of limestone; among sizes of (-) 20 mm/ (-)50 mm/(-) 100 mm/(-) 250 mm; those can be made available for supply		
Specify outage season (if any) round the year		
<u>Cost of limestone</u> (per tonne in ₹ or in any other currency) (Against interested Project/	Cost of Limestone at Mine/ Warehouse/ Port for each proposed size	
	Transportation Cost	
	Total Landed Limestone cost for each proposed size separately	
Name and Designation of the contact person		
Address		
Mobile Number		
E-Mail Address		
Any other relevant information		

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

EXPRESSION OF INTEREST (EOI) FOR SUPPLYING OF LIMESTONE FOR FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTSP, Anpara

(TURNOVER OF THE COMPANY IN THE LAST THREE FINANCIAL YEARS)

We confirm that annual turnover of M/s..... [Applicant] for the preceding three financial years is as under: -

Sl. No.	Financial Year	Turnover amount (In Bidder's Currency)	Turnover amount (In Million ₹)	Exchange Rate as on seven (7) days prior to Last date of submission of EOI
1	2018-19			
2	2019-20			
3	2020-21			

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

EXPRESSION OF INTEREST (EOI) FOR SUPPLYING OF LIMESTONE FOR FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTSP, Anpara

Schedule III

(SOURCING EXPERIENCE)

Sl. No.	Project where Limestone is supplied	Year of Supply	Quantity of Supply	Mode of Transport	Purity of Limestone (On CaCO ₃ basis)	Mine name & Location	Remarks
1	2018-19						
2	2019-20						
3	2020-21						

Note: Please attach Client's Certificates/Other relevant certificates.

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

Schedule IV.

Chemical Analysis (% by mass)					
1.	CaO	%			
2.	MgO	%			
3.	Fe ₂ O ₃	%			
4.	Al ₂ O ₃	%			
5.	Si ₂ O ₃	%			
6.	Mn ₂ O ₃	%			
7.	P ₂ O ₃	%			
8.	Cl ₂	%			
9.	Na ₂ O	%			
10.	K ₂ O	%			
11.	TiO ₂	%			
12.	Total sulphur	%			
13.	LOI	%			
14.	Free silica content				
15.	Physical Properties				
16.	Reactivity of Limestone				
17.	Bond's Work index	kW-h/ton			
18.	Granule Size	mm			
19.	Compressive Strength	kgf/cm ²			

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P.O.: ANPARA, DISTT.: SONEBHADRA**

INVITATION FOR EXPRESSION OF INTEREST

PART-2

For Purchasing of Gypsum from 2x500MW, DTPS Anpara,

The 2X500MW, DTPS, Anpara is a unit of UPRVUNL a Govt of UP undertaking. The site of Anpara Thermal Power Project is situated at the border of U.P. and M.P. at the southernmost tip of Distt. Sonebhadra in U.P. and on the left bank of Rihand Reservoir along National Highway No. 75 near the village Anpara at about 3 Km from the existing Renusagar Thermal Power Station. The nearest railway station is Anpara on BG East Central Railway line,

UPRVUNL invites "Expression of Interest (EOI)" for assessing market response for short listing of Purchasers/Agencies for further course of action such as Long term tie up/ MOUs/ Tendering or any combination of the said three options, for the selling of "Gypsum" from 2X500MW, DTPS, Anpara

The interested parties can also indicate whether they are Gypsum wall board manufacturers or Glass fibre reinforced gypsum (GFRG) panel manufacturers or cement manufacturing enterprise or any other manufacturing industry unit using gypsum. In such a case, the total amount of Gypsum produced can be given to such companies/parties on long term basis/MOUs/Agreement.

It may be pertinent to note that the quality of Gypsum procured from 2X500MW, DTPS, Anpara shall be as per Schedule-IV. Quantity of Gypsum produced will be of the order of **512 Tons/day**. Interested parties are requested to refer the terms and conditions of the EOI at UPRVUNL website (www.uprvunl.org) before submitting their EOI. The details may be submitted in sealed envelopes as per the format obtained from UPRVUNL site.

It may be noted that submission of EOI does not in any way constitute any kind of commitment on the part of UPRVUNL. For more details, may please contact:

Name: Er. Pramod Kumar, SE (O&MC-II, DTPS, Anpara), Pin-231225
e-mail se.mcc.dtps.anpara@uprvunl.org M.No 9415900856
Er. Ashok Kumar, EE (BMD-I, DTPS, Anpara), Pin-231225
e-mail, ee.bmd_1.dtps.anpara@uprvunl.org, Mob-9415903062

Last Date for submission-20 March-2022 through e-mail and in Hard Copy in closed enveloped

Note: Suppliers/Purchasers/Agencies can submit EIO offer separately of any part or combinedly for both parts of Limestone (Part-1) and Gypsum (Part-2).

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P.O.: ANPARA, DISTT.: SONEBHADRA**

DETAILED INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR
PURCHASING OF GYPSUM FROM FLUE GAS DESULPHURIZATION (FGD)
PLANT OF 2X500MW, DTPS, Anpara

EOI No.: 01/BMD-I/DTPS/2022-23

Date: 14/02/2022

INTRODUCTION

Ministry of Environment, Forest and Climate change, in its' gazette notification dated 7th December 2015, has amended the Environment (Protection) Rules, 1986, which inter alia, makes it binding to Thermal Power Plants to reduce Sulphur di oxide (SO₂) emission below the prescribed limit, depending on Unit size and year of installation of Power Plants. For the purpose of capturing SO₂ from the flue gas before emission, Flue Gas Desulphurization (FGD) plants are required to be installed in the Flue gas path. In complying with the said gazette notification, UPRVUNL shall also install an FGD plant in its 2X500MW, ATP, Anpara Plant. As an output of FGD plants, **Gypsum (CaSO₄.2H₂O) is produced in huge quantities**. Through this EOI, UPRVUNL desires to assess the domestic and international market for off-loading the Gypsum

1.0 SCOPE OF THE EXPRESSION OF INTEREST (EOI)

3.1 The scope of EOI is for sale/ off take of Gypsum from FGD plant of 2X500MW, DTPS, Anpara power plant.

2.0 TERMS AND CONDITIONS OF THE EXPRESSION OF INTEREST (EOI)

2.1 The FGD system of Unit No-07 of 2X500MW, DTPS, Anpara, is likely to be commissioned in **March 2023 and Unit no-06 by June 2023**; agencies should plan for the sale /off take of Gypsum accordingly.

2.2 The interested Purchasers/ Agencies shall make their own arrangement for transportation of Gypsum from 2X500MW, DTPS, Anpara Power Plant/ Station.

2.3 UPRVUNL reserves the right to assess the capacity/ capability of the applicant and viability of proposal, based on verification of documents and if required, cross verification for establishment of the capable applicant(s).

2.4 UPRVUNL reserves the right to accept or reject any or all applications, cancel/withdraw the EOI process without assigning any reason whatsoever in case situation arises, and in such a case no applicant shall have any claim arising out of such action.

2.5 Interested Purchasers/ Agencies shall ensure proper care and constant vigil of transportation activities for any damages to any existing properties, which may result in environmental hazards in any way, in case of award.

2.6 Interested Purchasers/ Agencies shall have to abide by the guidelines of the Central Government/ State Government and ensure compliance, in case of award.

4.7 All applicable safety norms to be followed by the interested Purchasers/ Agencies while loading, handling and transportation of Gypsum, in case of award.

2.8 All possible measures will have to be taken by the interested Purchasers/ Agencies, to avoid pollution while transporting, in case of award. **No spillage of Gypsum** will be permitted.

2.9 Transportation of Gypsum from production area will be the responsibility of respondent and preferred mode of transportation will be by road.

2.10 If due to erection or site constraint specific vehicle is required then same will be informed to firm

2.11 Penalties shall be imposed as per Nigam rules

2.12 Bidders may visit the site of FGD installation of UPRVUNL, 2X500MW, DTSP, Anpara, for better understanding of the system and issues before submission of EOI. The owner shall provide all cooperation to the representative of the bidder in obtaining the required information during the visit to site.

SECTION-III: FORM OF APPLICATION & SCHEDULES

Schedule I

Form of Application of EOI for **Purchasing** of Gypsum

(TO BE PRINTED ON THE LETTER HEAD OF THE INTERESTED PURCHASER/ AGENCY AND SIGNED)

Ref No.

Date:

(This is only an enquiry for short listing of agencies towards enlistment for sale of Gypsum from the Flue Gas Desulphurization (FGD) Units of UPRVUNL at 2X500MW, DTPS, Anpara Thermal Power Projects/Stations).

SE-O&MC-II

2X500MW, DTPS,

Anpara, (Sonebhadra)

INDIA-231225

Dear Sir,

We are interested in purchasing of Gypsum from UPRVUNL, 2X500MW, DTPS, Anpara. We here by express our willingness to participate in RFP as and when UPRVUNL invites the proposal for the same.

With reference to your invitation for EOI dated _____, we are furnishing herewith all the required details as per the prescribed Schedules:

Name of the Company and Address	
Whether the company is Govt. firm / Privately owned	
Name of Works where Gypsum procured will be used Intended use of Gypsum	
Required Quantity of Gypsum	
Kindly provide details of experience of sourcing & using Gypsum as per format at Schedule III.	
Whether interested in installing Gypsum wall board manufacturing plant or GFRG panel manufacturing plant near 2X500MW, DTPS, Anpara	

Preferred Mode of transportation of Gypsum Whether Rail or Road	
Frequency of collection of Gypsum	
Batch size of Gypsum to be transported	
Specify non-procurement season (if any) round the year	
Specify the period of purchase (in years) of the required Quantity that can be made for long term contract	
Purchase price of Gypsum (per tonne in ₹ or in another currency) (From 2X500MW, DTPS, Anpara)	
Gypsum Quality Required for application	
Name and Designation of the contact person	
Address	
Mobile Number	
E-Mail Address	
Any other relevant information	

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

EXPRESSION OF INTEREST (EOI) FOR PURCHASING OF GYPSUM FROM
FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTPS, Anpara

Schedule II

(TURNOVER OF THE COMPANY IN THE LAST THREE FINANCIAL YEARS)

We confirm that annual turnover of M/s..... [Applicant] for the preceding three financial years is as under: -

Sl. No.	Financial Year	Turnover amount (In Bidder's Currency)	Turnover amount (In Million ₹)	Exchange Rate as on seven (7) days prior to Last date of submission of EOI
1	2018-19			
2	2019-20			
3	2020-21			

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

EXPRESSION OF INTEREST (EOI)FOR PURCHASING OF GYPSUM FROM
FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTPS, Anpara

Schedule III

(SOURCING **EXPERIENCE**)

Sl. No.	Project from where Gypsum was procured	Year of Procurement	Quantity of Procurement	Mode of Transport	Final product from Gypsum	Remarks
1	2018-19					
2	2019-20					
3	2020-21					

Note: Please attach Client's Certificates/Other relevant certificates.

Place:

Date:

Name:

In the Capacity of:

Signed:

Duly authorized to sign the application for and on behalf of:

(Seal of the company)

EXPRESSION OF INTEREST (EOI)FOR SELLING OF GYPSUM FROM FLUE GAS DESULPHURIZATION (FGD) PLANT OF 2X500MW, DTPS, Anpara

Schedule IV

Gypsum Quality

SN	composition	Percentage by weight	remark
1	Free water	< 10~15 %	The gypsum quality depends on all kinds of operation conditions quality may vary.
2	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	>78~ 81%	
3	CaCO_3	<3%	
4	$\text{CaSO}_3 \cdot 1/2\text{H}_2\text{O}$	<2.5%	