

**Patratu Vidyut Utpadan Nigam Limited**  
(A subsidiary of NTPC Limited in JV with  
*Jharkhand Bijli Vitran Nigam Limited (JBVNL)*,  
Govt. of Jharkhand

**Request for Expression of Interest (EOI)**

For supply of dry fly & dry bottom ash  
from under construction  
3X800 MW Patratu Vidyut Utpadan Nigam Limited  
at  
Patratu, Ramgarh, Jharkhand.

**(This is a non-committal EOI, being published to create awareness among  
potential ash users and to assess their utilization capacity)**

## **1. Introduction**

Patratu Vidyut Utpadan Nigam Limited (PVUN) intends to make available dry fly ash and dry bottom ash for utilization as prescribed in extant of MoEF&CC Gazette Notification(s) for manufacturing of cement, ready mix concrete, fly ash bricks, tiles, construction of road, embankment, etc. from its under construction 3X800 MW coal based Patratu Super Thermal Power Project at Patratu, Ramgarh, Jharkhand from July 2024.

The purpose of this EOI is to create awareness regarding availability of dry fly and dry bottom ash from the plant among potential ash users and to access their utilization capacity.

## **2. Project Synopsis:**

Patratu Vidyut Utpadan Nigam Limited (PVUN), a subsidiary of NTPC Limited in JV with Jharkhand Bijli Vitran Nigam Limited (JBVNL), Govt. of Jharkhand, is setting up the 3X800 MW Coal based Patratu Super Thermal Power Project (PatratuSTPP) at Patratu, Ramgarh, Jharkhand. The 03 units are expected to be operational by July 2024, December 2024 and March 2025 respectively. The plant is located approx. 4 km from Ranchi-Patratu-Ramgarh state highway, approx. 30 km from Ramgarh city and approx. 40 km from Ranchi city by road. Nearest railway station is Patratu (approx. 3 km) and nearest airport is Ranchi (approx. 50 km). The plant will be connected to rail and roadways.

## **3. Request for Expression of Interest (EOI)**

Applications are invited from reputable and experienced Companies/Firms/organizations to convey an Expression of Interest (EOI) for the requirement of dry fly ash and dry bottom ash for utilization as prescribed in extant of MoEF&CC Gazette Notification(s), from the under construction PVUN's 3x800 MW Patratu Super Thermal Power Project. Applicants are requested to provide the relevant data/information in the enclosed Format.

This document has been prepared with the aim of providing information to evaluate Companies/Firms/organizations interest in taking of dry fly and bottom ash from PatratuSTPP and intimate PVUN accordingly by filling up the enclosed format.

## **4. General description of dry fly ash and dry bottom ash storage and disposal :**

Dry fly ash will be stored in 06 nos. steel fly ash main silo (3044 MT each) at plant end with road & railway connectivity and 04 nos. of fly ash intermediate silos (850 MT each) at main plant boiler area with road connectivity. Conditioned fly ash will also be available below the main silo. Fly ash bagging facility will be available near main fly ash silo area, for transportation of ash in truck/wagon.

Dry bottom ash will be stored in 03 nos. steel bottom ash main silo (1690 MT each) at plant end with road & railway connectivity and 03 nos. of bottom ash intermediate silos

(450 MT each) at main plant boiler area with road connectivity.

**5. Quantity of dry fly ash & dry bottom ash :**

Sr. No.	Type of ash	Lakh Metric ton of ash per month (Approx.)		
		From July 2024	From December 2024	From March 2025
1	Fly ash	1	2	3
2	Bottom ash	0.20	0.45	0.7

Tentative dry bottom ash size : Approx. 100% less than 25 mm.

**6. Brief description of facilities for loading of ash from silos:**

One (1) opening below each Fly ash silo is fitted with telescopic spout with scavenger fan complete with suction bag filter for loading of fly ash in closed bulkers/wagon. This outlet shall be provided with manual chain wheel operated plate valve for isolation and cylinder operated plate valve and rotary vane feeder with control. The maximum fly ash loading rate shall be 100 TPH.

One (1) opening below each bottom ash silo is fitted with manual and motorized gate valve, vibrating feeder along with canvas type chute for loading of bottom ash in truck /wagon for further transportation. The maximum bottom ash loading rate shall be 100 TPH.

**7. Transportation requirements for dry fly ash and dry bottom ash :**

Bulkers/BTAP or similar type of closed railway wagons shall only be used for transporting of dry fly ash in an environmentally friendly way. Open trucks/wagon, properly covered with plastic sheet/ tarpaulin, shall be used for transport of dry bottom ash. Ought most care to be taken to avoid any kind of fugitive dust pollution and open trucks/wagons, shall not be allowed to carry fly & bottom ash in any case. The Companies/Firms/organizations shall abide by all the rules & regulations of MoEF&CC, State Pollution Control Board, RTO and other Regulatory authorities for loading and transport and utilization of the dry fly ash and dry bottom ash.

**8. Disclaimers :**

- I. This EOI is not an agreement and is neither an offer nor invitation for actual supply of ash by PVUN to the Applicants or any other person.
- II. The EOI is indicative and non-committal only and to collect information of ash users and their utilization avenues. The quantity of fly and bottom ash and all other information submitted by the user in the format are non-binding to PVUN.

- III. Quantity, cost, and terms & conditions for supply of fly and bottom ash to various ash user agencies/companies/organizations will be governed as per directives, guidelines, rules & regulations of Govt. of India & NTPC Limited / PVUN Limited prevailing during the time of actual supply of the fly and bottom ash.
- IV. The start of operation of the units and availability of dry fly ash and dry bottom ash is expected from July 2024 as given in point no. 05. However, the actual start of operation of the units and availability of fly and bottom ash may vary.
- V. The ash will be exclusively used for the purpose for which permission will be taken & granted. Ash shall not be diverted for use for any other purposes.
- VI. PVUN may, in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this EOI document.
- VII. This Request for EOI does not imply that PVUN is bound to select and shortlist any agency/company for supply of ash.
- VIII. The purpose of this EOI is to provide interested parties information that may be useful to them in the formulation of their application for submission of EOI. This Request for EOI includes statements which reflect various assumptions and assessments in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require.

**9. Deadline of submission of application of EOI : 13.09.2023**

**10. Address of communication:**

Additional General Manager (EMG)  
Patratu Vidyut Utpadan Nigam Limited  
Patratu, Ramgarh,  
Jharkhand – 829119  
[rsmukhopadhyay@ntpc.co.in](mailto:rsmukhopadhyay@ntpc.co.in)

**11. Costs:**

The applicant shall bear all costs associated with the preparation and submission of the EOI. PVUN will, in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the assessment / evaluation process.

## FORMAT

(To be submitted to PVUN along with a Covering letter on the company/organization's letter head duly signed by Authorized Signatory with Company's Stamp)

1. Name of the Company: \_\_\_\_\_
2. Registered office Address: \_\_\_\_\_
3. Name of the owner/ proprietor/ Shareholders, address, phone number, email, etc.  
\_\_\_\_\_
4. GST no. as may be applicable :
5. PAN no.:
6. Nature of business: (tick the applicable box)  
Cement Manufacturer:  Ready Mix Concrete (RMC)   
Ash Supplier / Trader  Brick Manufacturer   
Road construction   
Any Other (please specify):  
\_\_\_\_\_
7. Status of the Company (Public Ltd. / Private Ltd./ Partnership Firm/ Others)  
\_\_\_\_\_
8. Date of establishment of the business/Years of Experience: \_\_\_\_\_
9. Annual turnover of the company: \_\_\_\_\_
10. Address of the plant(s) where ash will be required (if different from the address of registered office):  
\_\_\_\_\_
11. Capacity of each plant(s) (Ton/ numbers / any other suitable units per day/month/year) :  
\_\_\_\_\_
12. Avenue(s) as listed in extant MoEF&CC's Gazette Notification in which the bidder proposes to utilize the dry fly ash, if issued.

Sr. no.	Avenues	Quantity Required (ton/yr.)

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13. Total Requirement of Ash (both in figure & words)

Fly ash \_\_\_\_\_ Ton per year

Bottom ash \_\_\_\_\_ Ton per year

14. Approx. distance of the plant(s) from Patratu : \_\_\_\_\_

15. Mode of transport of ash to be adopted : \_\_\_\_\_

16. Any other relevant information \_\_\_\_\_

**Undertaking:**

- i. I/we understand that this EoI by PVUN is not a commitment for dry fly ash and dry bottom ash tie-up and /or agreement.
- ii. The ash will be exclusively used for the purpose for which permission will be taken & granted. Ash shall not be diverted for use for any other purposes.
- iii. I/we shall abide shall abide by all the rules & regulations of MoEF&CC, State Pollution Control Board, RTO and other Regulatory authorities for loading and transport and utilization of the ash.
- iv. I/we understand that the quantity, cost, and other terms & conditions for supply of dry fly and bottom ash will be governed as per directives, guidelines, rules & regulations of Govt. of India & NTPC Limited / PVUN Limited prevailing during the time of actual supply of the dry fly and bottom ash.
- v. I/we understand the EoI is indicative and non-committal only. The quantity of dry fly and bottom ash and all other information submitted by me/us as above are non-binding to PVUN.
- vi. I / We shall be bearing all costs associated with the preparation and submission of the EOI. PVUNL will, in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the assessment / evaluation process.
- vii. All the information/data provided above are correct.

Date .... / ..... / .....

Signature: .....

Name .....

Place:

Designation: .....

Name of the Company: .....

Address: .....

Company Seal:

