



ପୌର ପରିଷଦ କାର୍ଯ୍ୟାଳୟ : ବ୍ରଜରାଜନଗର



OFFICE OF MUNICIPAL COUNCIL: BRAJRAJNAGAR

At/Po- Lamtibahal Dist- Jharsuguda, Odisha
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Letter No 3990

Date 11.11.2025

Rate quotation in sealed cover are invited from reputed Agency/ Contractor/ farms / manufacturers with valid PAN, GSTN, etc for the work "installation of gas-based crematorium at Brajrajnagar Municipality". The quotation is for conclusion of rates only.

The rates quoted must be inclusive of all taxes & excluding GST. The technical specifications to be downloaded from the official Website of Jharsuguda District <https://jharsuguda.odisha.gov.in>. Last date and time of receipt of bid is 17.11.2025, 5.00 PM through speed post/ registered post/ by hand only. Brajrajnagar Municipality will in no way be responsible for any delay in receipt of the Bid documents.

Jel
7.11

Executive Officer,
Brajrajnagar Municipality

Memo No. 3991/dt. 11.11.2025

Copy submitted to the DMA & Ex-Officio Additional Secretary to Govt., Housing & Urban Development Deptt., Odisha, Bhubaneswar for favour of kind information.

Jel
7.11

Executive Officer,
Brajrajnagar Municipality

Memo No. 3992/dt. 11.11.2025

Copy submitted to the District Magistrate & Collector, Jharsuguda/ Project Director, DUDA, Jharsuguda for favour of kind information.

Jel
7.11

Executive Officer,
Brajrajnagar Municipality

Memo No. 3993/ dt. 11.11.2025

Copy forwarded to the General Manger, WATCO, PH Division, Jharsuguda/ Executive Engineer, R&B, Division, Jharsuguda for information with a request to display the same in their respective notice board for wide publication/ DeGM, Collectorate, Jharsuguda with a request to publish this EOI notice on the portal of District website <https://jharsuguda.odisha.gov.in>.

Jel
7.11

Executive Officer,
Brajrajnagar Municipality

Memo No. 3994 /dt. 11.11.2025

Copy submitted the Director, I&PR Department govt. of Odisha, Bhubaneswar for favour of kind information with a request to publish the above content on one Odia Daily News paper (Sambad/Samay/Pramaya/Dharitri/Samaj/Pragatibadi) for one day only preferable widely circulated in Brajrajnagar Municipality area and submit two copies of press cutting along with the bill as per the Govt. rate for making necessary payment at this end.

Jel
7.11

Executive Officer,
Brajrajnagar Municipality

TECHNICAL SPECIFICATION OF GAS BASED CREMATION SYSTEM

S.NO	Particulate	Specification
1	Cremation Chamber	<p>The LPG Gas crematorium is built with double chamber cremation furnace with a strong cremation bed and secondary air holes.</p> <p>Primary Chamber :</p> <ul style="list-style-type: none"> • Fully insulated internal refractory lining, constructed from high grade refractory brick ensuring a self-supporting interlocked arrangement, hot hearth design. • One hot hearth combustion burner, temperature controlled on-off, complete with internal air fans. • One waste ignition burner, temperature controlled on-off, complete with internal air fans. • One temperature control sensor <p>Quencher Chamber :</p> <ul style="list-style-type: none"> • Fully insulated internal refractory lining, constructed from high grade low thermal mass insulation • One secondary chamber burnout burner, temperature controlled on-off, complete with internal air fans. • 76mm refractory lined stack that reduces heat penetration under every condition, preventing the possibility of fire.
2	Technology	<ol style="list-style-type: none"> 1. The heat evolve from the burning of LPG/CNG is reflected back and store in the combustion area so that inside temperature reaches high. 2. Concentrate flame and heat area is responsible for the disposal of dead body. 3. The pollutants are collected in wet scrubber and filter gases are leave to environment through a chimney
3	Furnace Silent Features	<ol style="list-style-type: none"> 1. Cremation should be carried out completely and quickly without creating smoke nuisance 2. Cremation shall take place automatically without intervention of human being 3. Cremation furnace shall be simple, fast and safe in operation 4. Having features to ensure full compliance to the environment protection obligation
4	Temperature Range	Primary Chamber 700-900 °C.
5	Brick Lining	<ol style="list-style-type: none"> 1. The casing of the Furnace will have lining of heavy duty fire bricks (min. 42% Alumina content) minimum thickness of 90 mm. 2. In the areas of high wear (main hearth) 63 % alumina tile shall be used to get high resistance to abrasion and thermal shock. 3. Moderate heat duty firebricks of suitable sizes shall be used for min. loss of heat

6	Insulation	Calcium silicate insulation shall be used in areas around the casing between the refractories and the casing. The quality and thickness of the insulation should be such that the cremator casing should be kept a specific temperature range to cremate the body.
7	Burners	The Gas burners should be mounted at place of cremator facilitating access for comprehensive maintenance and repairs. Burners should be configured for On/Off control, and should be ignited automatically and the burner system should be protected against flame failure, her by complying with the gas regulations. [No. of Burner = 2]
8	Fuel Consumption	14 – 16 KG / cremation
9	Ash	5 %
10	Material of construction	Cremation furnace : Mild steel (IS2062 & Cremation trolley :casted with refractory cement)
11	Auxiliary Load	9 KW
12	Cremation Trolley	Trolley and stretcher is provide for easy loading of Dead body. With lowering and lifting arrangement. Trolley is prepared from mild steel.(Manual /auto)
13	Ash Collection	The arrangement for ash collection from combustion chambers shall be locking arrangement shall be provided on the opening for ash collection.
14	Space Required	10 X 22 sq.ft
15	Door	Opening/ closing is manual
16	LPG/CNG Gas Line	Customer scope
17	Control Panel	It is consist of supply on/off switch, Digital Temperature Controller with back up control, Motor starter, Ampere meter, Fuse, MCCB, Flame monitor etc.
18	Duration of Burning	45-90 minute
19	Wet Scrubber & Cyclone System	There are three steps of wet scrubber as given below: 1. Condenses the smoke through high-pressure cold air so the heavy ash particles gets settle down in the chamber and gases pass through second stage. 2. Washes the smoke through high pressure water sprinkled over it and goes to third stage. 3. Excess carbon particles mix with water and hot gases released through chimney.
20	Chimney	1. Height of Chimney is 30 meter. 2. Base dia. of chimney 1200mm. 3. Flanges 310 mm (I.D.) X 16 mm Thick 4. 16 mm Dia. Half Thread High Tension Nut/Bolts with one spring washer and two plain washers 5. Foundation Bolts/Nuts 32mm Dia. X 1200mm Long 6. Steel Core Wire Rope 8 mm Dia.
21	Warranty / AMC	For 3 years