**BID DOCUMENT**

**Name of the Work**: " Construction of Longitudinal Drains for Tilia Ash Pond Phase I at RL 208M and Brick Lining on Upstream Slope of PST. (Unit 3 & 4), OPGC"

**SAFE & CLEAN POWER IS OUR COMMITMENT**

**ODISHA POWER GENERATION CORPORATION LIMITED**

**Ib Thermal Power Station, Banaharpali, Jharsuguda – 768234**
**(ODISHA)**

**Email:** parthiv.nayak@opgc.co.in
manoj.pradhan@opgc.co.in
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**ODISHA POWER GENERATION CORPORATION LIMITED**
**(A Government of Odisha undertaking)**
**AT-IB THERMAL POWER STATION, PO: BANAHARPALI, DIST: JHARSUGUDA, ODISHA-768234**
**Phone no: (Land Line No. 06645-289232/221/355/356/245)**

## NOTICE INVITING TENDER

OPGC invites sealed bids from bona fide and financially sound Registered Agencies /Firms /Companies for execution of the following Works for its Thermal Power Plant at Banharpali.

| S/N | Name of the Work | Tender Cost (Rs.) | EMD (Rs.) |
|---|---|---|---|
| 1 | Construction of Longitudinal Drains for Tilia Ash Pond Phase I at RL 208M and Brick Lining on Upstream Slope of PST. (Unit 3 & 4), OPGC | 2,000/- including GST | 2,96,000 |

**Online EMD Collection:- https://payments.billdesk.com/bdcollect/bd/odishapowergenerationcorporationltd/19850**

**In addition to the conventional modes of submission, Bank Guarantees in the form of Electronic Bank Guarantee (e-BG) shall be accepted for all purposes including Earnest Money Deposit (EMD)/Bid Security, Performance Security, Defect Liability Security, and Security against Mobilization Advance.**

**Participation -MSTC**

**Mandatory Registration:** All prospective bidders must register themselves on the MSTC e-Procurement Portal (www.mstcecommerce.com) to participate in the tendering process. Since this tender is hosted and published exclusively on the MSTC platform, bids submitted through any other mode will not be entertained.

Cost of bid document (non-refundable) shall be paid by Demand Draft in favour of OPGC Ltd. drawn on State Bank of India (Code-9510) / Union Bank of India (Code-UBIN0806625) / Central Bank of India (Code-283899) payable at ITPS, Banharpali or ICICI Bank (Code-ICIC0003679) payable at Telenpali. Cost of bid document shall have to be submitted along with the bid and the DD towards the tender cost (separate from EMD) should be prepared on or before the last date of submission/receipt of tender, otherwise the bid shall be liable for rejection. Small scale industries/National Small-Scale Industries Corporation/ MSME firms are exempted from payment of Cost of bid document only if they are entitled for exemption of the offered service. Tenderers seeking exemption shall claim in advance along with the photocopy of Valid Registration Certificates at least two days before the due submission date. However, OPGC reserves the right to accept/ reject the exemption request if the same is found unauthenticated or not relevant to the offered item. In case of any discrepancy found between tender document submitted by the agency and the master copy in our office, the latter should prevail. No claim on this account shall be entertained.

**NB: Bidders having the requisite qualifying requirements as specified in the bid document shall only be considered for tender evaluation.**

**DGM-CONTRACTS**

**SAFE & CLEAN POWER IS OUR COMMITMENT**

**OPGC encourages all existing or new vendors/suppliers to register with us as empaneled vendors. Please visit our website www.opgc.co.in for details.**

**Name of the work:** Construction of Longitudinal Drains for Tilia Ash Pond Phase I at RL 208M and Brick Lining on Upstream Slope of PST. (Unit 3 & 4), OPGC

## Bid Document & Instruction to Bidders

### Bid Document

The Bid documents consist of the following documents:

1. Copy of NIT
2. Bid document & Instruction to Bidders
3. Qualifying Criteria
4. General Conditions of contract
5. Safety, Health & Environment (SHE) Rules & Regulations for Contractors
6. Scope of Work
7. Special Conditions of Contract
8. Rules and Regulations of the e-Reverse Auction
9. Blank Price bid

### Techno-Commercial Bid:

The bidder must Upload the following along with the techno-commercial bid:

1) EMD
2) GST Registration Certificate, Provident Fund Registration Certificate, ESI Registration Certificate and IT PAN.
3) Signed & Stamped Bid Documents (all pages) as a token of acceptance.
4) Filled in and signed formats as specified in Annexure of GCC.
5) Credentials in support of qualifying requirements.
6) Commercial terms and conditions and deviation statement.
7) MSME (Micro/small/medium)/NSIC/SSI status of your firm.
8) Documents and undertakings as per the Qualification criteria requirement.

**Instruction to the Bidder:-**

1. As the tendering process will be conducted through E-bidding, bidders are required to submit their bids exclusively **via MSTC Portal**. **No hard copy of the bid is required to be submitted by the bidders.**

2. Bidders must not include any price details or price-related information in the techno-commercial bid. Any bidder who includes such information in the techno-commercial bid is liable to be disqualified/rejected.

3. Small scale industries/National Small Scale Industries Corporation/ MSME firms shall be exempted from payment of Earnest Money Deposit/Security Deposit/Tender Fees only if they are entitled for exemption of the offered service. However, OPGC reserves the right to accept/ reject the exemption request if the same is found unauthenticated or not relevant to the offered item.

## Qualification Criteria

| | |
|---|---|
| **2.1** | **Technical Criteria:** |
| 2.1.1 | The bidder must have successfully executed and/or ongoing *Similar work (defined below) during the last 07 as on the date of Techno commercial bid opening.<br><br>Credentials for successfully executed the *Similar work must be submitted along with the Bid. Relevant PO copies and Client's completion certificate, certificate for ongoing works will be considered as the credential/documentary proof.<br><br>Similar works shall be considered in either of the following.<br><br>a) At least three contracts of similar works not less than Rs 59.08 Lakhs<br><br>OR<br><br>b) At least two contracts of similar works not less than Rs 73.86 Lakhs<br><br>OR<br><br>c) At least a Single contract of similar works not less than Rs 118.17 Lakhs. |
| *Similar Work | Construction, of civil works involving earthwork excavation, earth filling/backfilling, brick masonry, cement concrete (PCC/RCC), stone pitching/riprap, and construction of drains (such as longitudinal drains, chute drains, toe drains, or storm water drains) in industrial, infrastructure, irrigation, embankment, ash pond, canal, reservoir, dam, or similar projects |
| **2.2.** | **Financial Criteria** |
| 2.2.1 | The bidder should be financially sound and shall have average annual financial turnover during last financial year FY-22-23, FY-2023-24 and FY 24-25 of minimum Rs. 44.31 Lakhs.<br><br>The bidder shall submit audited balance sheet including Profit & Loss statement as documentary evidence in support of the qualifying criteria. For the purpose of calculating financial turnover, revenue from Trading Business and Other Income is not admissible.<br><br>OR<br><br>In cases where a bidder is not required to prepare or obtain audited Balance Sheets and Profit & Loss Statements in accordance with the applicable Government Financial Circulars, Acts, Rules, or Regulations, the bidder shall submit certified copies of the relevant financial statements duly certified by a Registered Practicing Chartered Accountant.<br><br>Notwithstanding anything contained in the above clause, Bidder(s) must not be in loss making financial status and should have a positive net worth during the financial years mentioned above. |
| **2.3** | **General Criteria** |
| 2.3.1 | Safety requirement-Bidder loss time hours must have been less than 200Hrs in last 3 years. (Contractor's self-certification). |
| 2.3.2 | The bidder must have its own Provident Fund Registration certificate, ESI Registration certificate, Income Tax PAN and GST certificate. Photocopies of these documents must be submitted along with Techno-commercial Bid. |

| | |
|---|---|
| 2.3.3 | The bidder must submit an undertaking that it is not blacklisted or debarred from participation in tenders during the last 02(Two) years on ground of performance for the similar nature of job. (Contractor's Self Certification)<br>AND<br>Insolvency: Bidder should not be under NCLT, insolvency proceedings, liquidation etc. |
| Note: | Notwithstanding anything stated above, OPGC reserves the right to assess the capability and capacity of the Bidder to perform the contract should the circumstances warrant such an assessment in the overall interest of OPGC.<br>• For all qualification criteria all supporting documents to be provided. Owner reserves the right to obtain necessary documents and also to assess the qualification of the Bidder, subsequent to submission of bid, as deemed necessary by Owner to establish bidder's qualification.<br>• Sufficient documentary proof in support of the above must be submitted along with the Techno-Commercial Bid.<br>• Tenders submitted without the above techno-commercial requirements shall be liable for rejection.<br>• Any other documents in addition to the above which the applicant wants to submit.<br>• The bidders who are found qualified in the above will be invited for the opening of the price<br>• OPGC reserves the right to do due diligence of the credentials submitted by the bidders. |

# Scope of Work & Technical Specification

**Name of Work**

**Construction of Longitudinal Drains for Tilia Ash Pond Phase-I at RL 208 m and Brick Lining on Upstream Slope of PST**

## 1. Scope of Work

The scope of work shall include the complete construction of longitudinal drains along the ash dyke slopes and brick lining works on the upstream slope of the PST, including all associated civil works, labour, machinery, tools & plants, consumables, transportation, quality control, testing, safety measures and incidental works required for successful completion of the work as per approved drawings and directions of the Engineer-in-Charge (EIC).

The work broadly consists of:

## A. Longitudinal Drain Construction

- Site clearance and setting out.
- Excavation of compacted earth from dyke slopes to the required dimensions.
- Trimming and dressing of excavated slopes.
- Stacking of excavated material within 50 m lead.
- Disposal of unsuitable materials as directed by EIC.
- Preparation of foundation bed.
- Backfilling wherever required.
- Construction of ash brick masonry side walls.
- PCC bed wherever shown in drawings.
- Stone riprap for chute drain transitions.
- Finishing and curing.
- Testing and rectification of defects.

## B. Brick Lining on Upstream Slope of PST

- Preparation of slope.
- Dressing and leveling.
- Construction of brick panel walls.
- Packing of fly ash bricks laid flat between panel walls.
- Filling joints properly.
- Curing.
- Final finishing.

## Technical Specifications: -

**Excavation of Compacted Earth from Dyke Slope**

**Scope**
The work consists of excavation from compacted dyke slopes for construction of longitudinal drains including trimming of slopes and stacking excavated material within initial lead of 50 m.
**Specifications**

- Excavation shall be carried out manually/mechanically.
- No over excavation shall be permitted.
- Side slopes shall be dressed neatly.
- Bottom shall be levelled.
- Loose materials shall be removed.
- Excavated material shall be stacked as directed by EIC.
- Excess excavated material shall not obstruct traffic or drainage.

**Measurement**
Measured in Cubic Metres.
Applicable Specification
OPWD Earthwork Specifications.
**Earthwork in Backfilling**
**Scope**
Backfilling around masonry, trenches and foundations using available earth/ash.
**Specifications**

- Material shall be free from organic matter.
- Filling shall be done in layers not exceeding 200 mm.
- Each layer shall be compacted.
- Moisture content shall be maintained near OMC.
- Finished surface shall be dressed and levelled.

**Measurement**
Measured in Cubic Metres.
**Fly Ash Brick Masonry in Cement Mortar (1:6)**
**Scope**
Construction of drain walls using fly ash bricks.
Materials
Fly Ash Bricks

- Supplied by OPGC
- Minimum compressive strength:
    - 7.5 MPa
- Water absorption:
    - Less than 20%

Cement
OPC/PPC conforming to IS 269/IS 1489.
Sand
Conforming to IS 383.
Mortar
1 Cement : 6 Sand
Workmanship

- Bricks shall be soaked before laying.

- Frog upward.
- Joints not exceeding 10 mm.
- Proper bonding.
- Vertical joints staggered.
- Courses perfectly horizontal.
- Curing minimum 7 days.

**Measurement**
Measured in Cubic Metres.
**Stone Riprap for Chute Drain**
**Scope**
Providing stone riprap on dyke slopes around chute drain.
Materials
Stone boulders
- Minimum size:
  300 mm
- Hard durable granite/quarried stone

Workmanship
- Surface shall be dressed.
- Stones placed tightly.
- Interstices packed with spalls.
- Proper slope maintained.
- Wave breakers fixed wherever shown.
- Finished surface shall be stable.

Concrete quantity shall be measured separately.
**Measurement**
Measured in Cubic Metres.
**PCC (1:2:4)**
**Scope**
Providing PCC using 12 mm graded granite chips.
Materials
Cement
OPC/PPC
Fine Aggregate
River Sand conforming to IS 383
Coarse Aggregate
12 mm graded granite chips
Water
Clean potable water.
Specifications
Mix
1 Cement
2 Sand
4 Aggregate
Workmanship
- Machine mixed.

- Vibrated properly.
- No segregation.
- Finished smooth.
- Curing minimum 14 days.

Cube tests shall be conducted wherever directed.

**Measurement**

Measured in Cubic Metres.

**Brick Packing using Fly Ash Bricks**

Scope

Providing brick packing laid flat within panel walls for protection of dyke slopes.

Materials

Fly Ash Bricks

Supplied by OPGC.

Workmanship

- Surface prepared.
- Bricks moistened.
- Laid flat.
- Tight joints.
- Uniform level.
- Proper alignment.
- Packing completed without voids.

Transportation from brick plant to site shall be contractor's responsibility.

**Measurement**

Measured in Square Metres.

**QUALITY CONTROL**

The contractor shall maintain quality control throughout execution.

The following tests shall be carried out:

| Item | Test |
|---|---|
| Cement | Manufacturer Test Certificate |
| Sand | Sieve Analysis |
| Aggregate | Gradation |
| Fly Ash Bricks | Compressive Strength & Water Absorption |
| Mortar | Mix proportion |
| PCC | Slump Test & Cube Test |
| Earth Filling | Field Density Test if required |
| Finished Drain | Line, Level & Dimensions |

Testing shall be carried out at approved laboratories whenever directed by Engineer-in-Charge.

**SAFETY REQUIREMENTS**

The contractor shall comply with all statutory safety requirements, including:

- Safety helmets
- Reflective jackets
- Safety shoes
- Gloves

- Barricading of excavation
- Night warning lamps
- Safe access to work locations
- Emergency first aid arrangements
- Housekeeping and debris removal

Any accident arising out of negligence shall be entirely the contractor's responsibility.

**MODE OF MEASUREMENT**

Measurements shall be as per IS 1200, OPWD Specifications and approved drawings.

- Excavation – Cubic Metre (Cum)
- Backfilling – Cubic Metre (Cum)
- Brick Masonry – Cubic Metre (Cum)
- Stone Riprap – Cubic Metre (Cum)
- PCC – Cubic Metre (Cum)
- Brick Packing – Square Metre (Sqm)

Only completed quantities accepted by the Engineer-in-Charge shall be measured for payment.

**GENERAL CONDITIONS**

- The contractor shall inspect the site before quoting.
- Work shall be carried out without disturbing the stability of the ash dyke.
- Any damage to existing embankment, drainage system, roads or structures shall be restored at the contractor's cost.
- The work shall be executed in stages as directed by the Engineer-in-Charge to suit ash pond operation.
- All materials, workmanship, dimensions and tolerances shall comply with the approved drawings, BIS standards, OPWD/CPWD specifications, and directions of the Engineer-in-Charge.
- Free-issue fly ash bricks shall remain the property of OPGC, and any wastage beyond permissible limits shall be recovered from the contractor at prevailing rates.

## SPECIAL CONDITIONS

**Name of work: "Construction of Longitudinal Drains for Tilia Ash Pond Phase-I at RL 208 m and Brick Lining on Upstream Slope of PST"**

1. 5% of the gross bill amount shall be withheld towards statutory dues, which will be refunded after submission of authenticate document by the agency.

2. The period of contract is 08 (Eight) months (Excluding rainy season, and excluding mobilization period of 15 days) from the date of issue of LOA / Work order.

3. The contractor is required to mobilize his men, materials, plant & equipment at his work site within 15 days of the date of issue of LOA/Work order at the commencement of the contract, failing which the Engineer-In-Charge will annul the contract agreement at his discretion. In the event of any such annulment, the owner reserves the right to recover the cost and other financial losses from the contractor in any manner deemed legally correct besides forfeiture of the EMD converted as ISD. The responsibility of proving that the delay in mobilization was beyond the control lies with the contractor, the Engineer-in-charge after satisfying himself with the reason for the delay if any, may allow extension of time to avoid the annulment of the contract.

4. The offer shall be submitted in double bid system.

5. All the vehicles/equipments used for the purpose of the work should have proper documents and driver should have professional license.

6. Any defective work noticed within the defect liability/ warrantee period of one year shall be rectified by the contractor immediately on receipt of information without extra financial burden to OPGC.

7. Contractor must arrange all machineries and T&P required for the work.

| Bill of Quantities (BoQ) | | | | | |
|---|---|---|---|---|---|
| **Name of Work : Construction of Longitudinal Drains for Tilia Ash Pond Phase-I at RL 208 m and Brick Lining on Upstream Slope of PST** | | | | | |
| **Sl. No** | **Item Description** | **Unit** | **Quantity** | **Rate Including GST** | **Amount** |
| 1 | Excavation of compacted Earth from dyke slope including trimming of slopes and stacking the excavated materials away from site within an initial lead of 50m as per direction of EIC | **Cum** | **792** | | |
| 2 | Earth work in back filling of foundation/ trenches etc. including dressing & levelling with available earth/ash within initial lead of 50 meters with all costs, conveyance, T&P, labour, royalties etc. all complete as per the direction of Engg.-in-charge. | **Cum** | **277.2** | | |
| 3 | Ash brick masonry in cement mortar(1:6) in foundation and plinth for all type of works of all thickness including all cost, splays cutting, watering, curing, conveyance, T & P, Scaffoldings, royalties, taxes & Duties of all materials and labour charges etc. complete as per direction of Engg.-in-charge. (Ash brick will be supplied from Ash Brick Plant of OPGC free of cost. Contractor has to arrange his own conveyance for transportation to Site) | **Cum** | **810.94** | | |
| 4 | Chute Drain : Providing and laying stone riprap to the slopes of dyke with quarried and blasted stone boulders of size 0.30m and above including dumping on slopes filling interstices with small stones & wedges and packing surface to proper line and levels including fixing wave breakers for concrete chute on d/s face of the embankment as per approved drawing and direction of Owner's Representative. (Concrete Qty will be measured and paid separatelycomplete with all leads & lifts complete as directed by the Engineer-in-charge. | **Cum** | **173.25** | | |
| 5 | Cement concrete(1:2:4) using 12 mm graded hard granite crusher broken chips including all cost, laying of concrete watering, curing, conveyance, T & P, royalties, taxes of all materials required for the work , Scaffolding & labour charges etc complete as per the direction of Engineer-in-charge. | **Cum** | **57.75** | | |

| | | | | | |
|---|---|---|---|---|---|
| 6 | Providing and packing bricks laid flat, moistening with water wherever required, for protection of inside dyke slopes with brick packing within the panel walls ( cost of panel walls shall be paid under item no 3) including the cost of labour, materials, transportation all leads and lifts, equipment, etc. complete as per drawings and as directed by the Owner's Representative. With Fly Ash bricks. Fly Ash bricks will be provided by OPGC. | **Sqm** | **25,000.00** | | |
| **Total Amount Including GST (In Rs.)** | | | | | |

## Rules and Regulations of the e-Reverse Auction

| | |
|---|---|
| **Buyer's Name/Owner** | Ib Thermal Power Station<br>(A Unit of Odisha Power Generation Corporation Limited) |
| **Auction To Be Conducted By** | MSTC Limited |
| **Name of the work** | Construction of Longitudinal Drains for Tilia Ash Pond Phase I at RL 208M and Brick Lining on Upstream Slope of PST. (Unit 3 & 4), OPGC |
| **Date & Time Of Auction** | Auction Date: [To be intimated later]<br><br>Online e-Reverse Auction Time: [To be intimated later]<br><br>URL: www.mstcecommerce.com/eprochome/opgc |
| **Special Instructions** | Bidding in the last minutes and seconds should be avoided in the bidders own interest. Neither the Service Provider nor OPGC will be responsible for any lapses /failure on the part of the vendor, in such cases. |
| **Auto Extension of Closing Time** | 5 minutes<br>NB: If any bidder quotes 5 minutes before closing time, the closing time will be extended automatically for another 05 minutes and so on till 05 minutes idle time between the bids. |
| **Decremental Value** | Minimum decrement will be intimated before E-RA |
| **Start Price** | The start bid price as decided by OPGC tender committee shall be displayed at MSTC Limited auction platform during start of the e-RA. |

1. The financial bid process will comprise of two rounds. In the first round, the IPO of the techno-commercially qualified bidders will be opened & ranked on the basis of ascending order for determination of qualified bidders. Best five (L-1 to L-5) bidders would be qualified bidders for E-RA and such qualified bidders shall be eligible to participate in the E-RA and submit their FPO with respect to the bid.
2. In case of tie for L5 bid, all the bidders offering L5 will be allowed for e-RA.
3. Bidders must be a registered user to bid for Buyer ("OPGC") in MSTC portal www.mstcecommerce.com/eprochome/opgc. Bidders need to have their Login ID and Password prior to e-Reverse Auction.
4. Bidders have to participate as per the e-Reverse Auction time and date communicated to them & based upon e-Reverse Auction invitation for particular Auction.
5. Quotation once submitted through e-Reverse Auction cannot be withdrawn /deleted. Otherwise, the EMD submitted by the bidder shall stand forfeited.
6. Buyer reserves the right to ban the bidder from participating in e-Reverse Auction without any explanation/reason at any stage of e-Reverse Auction.
7. Buyer reserves the rights to extend / cancel the e-Reverse Auction.
8. E-Reverse Auction shall be conducted in Indian Rupees only.
9. All prices submitted by Bidder in e-Reverse Auction shall be as per Tender's Terms & Conditions.
10. Validity of bids: As mentioned in Tender Document.
11. Written Confirmation shall be taken in advance regarding participation in the e-Reverse Auction to buyer along with the Authorized person name and details.
12. Buyer reserves the right to award the Purchase Order / Service Order as per buyer's discretion irrespective of Live Auction Rank.
13. Buyer reserves the right to repeat the e-Reverse Auction of same package.

14. **After completion of e-Reverse Auction, the lowest evaluated bid of all the bids submitted in manual and e-Reverse Auction process shall be considered for award of the Purchase order / Work order.**
15. The bidders shall quote from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.
16. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, OPGC at its own discretion shall debar the bidder from the e-Reverse Auction/Tender and future participation also.
17. OPGC reserves the right to cancel the e-Reverse Auction process/ tender at any time, before ordering, without assigning any reason and may go for manual opening of price bids as per standard practice.

18. OPGC shall not be liable for any interruption or delay in accessing the MSTC portal irrespective of any cause. In such cases, the decision of OPGC shall be binding on the bidders.
19. Other terms and conditions shall be as per NIT, bidder's techno-commercial Bid and other latest correspondences/ final confirmations, (if any) against the NIT.
20. If any item is not quoted by a bidder, the maximum price quoted by the other participated bidders for that item shall be considered for arriving evaluated price of that bidder.
21. The total L1 Price obtained through e-Reverse Auction shall be proportionately distributed among each line item in line with the price quoted and evaluated in the hard copy price bid.
22. The price quoted in e-Reverse Auction is the total price for all the items and quantity as per Price Schedule of NIT irrespective of any omission by the bidder in the hard copy price bid.
23. In case, the L1 Bidder in e-Reverse Auction and manual Tender happens to be the same bidder, then minimum price among both shall be considered as L1. If the bidder disagrees to accept the said condition, then his EMD shall be forfeited. Apart from this the bidder will be debarred from participating in future e-Reverse Auction/Tender of OPGC.
24. Each Bidder shall get the final loading factor (%age of the quoted price) from OPGC before e-Reverse Auction for the deviations, if any, taken by them in the techno-commercial bid.
25. The Price quoted in the e-Reverse Auction shall be inclusive of all applicable taxes, duties and levies, deviations considering the loading factor (got from OPGC/Tender Condition as mentioned in above clause) on his quoted price. However, the GST shall be paid extra as applicable and not included in the loading factor as well as total price.

**UNDERTAKING**

I hereby undertake that I agree to the **"Rules and Regulations of the e-Reverse Auction"** mentioned herein.

**Signature:**

**Name:**

**Date:**

**Company Name:** **Seal:**



Signature Not Verified
Digitally signed by MANOJ KUMAR PRADHAN
Date: 2026.11.04 16:40:34 IST
Reason: Secure Document
Location: India