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|  | <p>(UNDER JURISDICTION OF SINGRAULI COURT ONLY) NORTHERN COALFIELDS LIMITED (A Mini Ratna Company) (A Subsidiary of Coal India Limited/ A Government of India Undertaking) Materials Management Department Regd. Office : PO: Singrauli Colliery, Dist. Singrauli (M.P.) INDIA Ph. No.07805-266606, Fax No.-266388,266640</p>  |  |
|---|---|---|

SUPPLY ORDER

Ref. No: 63614139/116A1032

Dated:14.02.2017

| | |
|---|---|
| M/s Capital Hydraulic Industries Pvt. Ltd. | Fax no.(011)25981331, Ph.No. (011)25985889 |
| NW-81, Vishnu Garden Ext., | PCC: By Regd.Post |
| New Delhi - 110018 | VENDOR CODE:C0027 |

Sub: Our Open Tender No. NCL/SGR/MMD/SKA/116A1032/26 dtd 23.05.2016, Techno-Commercial Bid (Cover-I) & Price Bid (Cover-II) opened on 05.07.2016 for Procurement of Truck Mounted Hydraulic Ladders/ Hydraulic Manlifters.

Ref: i) Your offer no. CHI/TEN-NCL-LIF/2016-2017 dtd. 23.06.2016 AND Bid No.: 111269 against Tender ID – 2016_NCL_38298_1.

Dear Sirs,

With reference to the above, we hereby place our formal Supply Order on you for Design, Manufacture, Supply, Commissioning & Testing of Truck Mounted Hydraulic Ladders/ Hydraulic Manlifters at the following price, terms & conditions and also unless otherwise specified as per “General Terms & Conditions for supply of stores” enclosed with NIT:-

Scope of Supply:-

| Description of Item | Order Qty. (No.) | Unit Basic Price (in Rs.) | Extended Value (in Rs.) |
|--|------------------|---------------------------|-------------------------|
| Truck Mounted Hydraulic Ladders / Hydraulic Manlifters fabricated on Tata LPT 1613 TCIC BSIII | 07 | 2600000.00 | 18200000.00 |

Total Extended Value: Rs. 1,82,00,000.00 (Rupees One Crore Eighty Two Lakh only).

TECHNICAL SPECIFICATIONS: Detailed Technical Specification is enclosed at Annexure-I.

Make: ‘CAPITAL HYDRAULIC’

Model: Chassis model Tata LPT 1613 TCIC BSIII

TERMS & CONDITIONS:

1. **BASIS OF PRICE:** Prices are on FOR destination basis inclusive of Packing, Forwarding, Freight, Transit Risk Insurance & Temporary registration charges and shall remain Firm till completion of supply.
2. **EXCISE DUTY:** Exempted/Not applicable at present. If applicable in future, the same shall be borne by you. However you shall provide Cenvatable Invoices of M/s Tata Motors Ltd. or their Authorised Dealer for Truck Chassis for minimum of Rs.169028.00 per vehicle in favor of NCL to avail Cenvat credit on chassis. For availing CENVAT credit of Truck Chassis, NCL shall issue a letter to M/s Tata Motors Limited, Commercial Vehicle Division, Jeevan Tara Building, 5 Sansad Marg, New Delhi-110001 authorizing M/s Capital Hydraulic Industries Pvt. Ltd., New Delhi to place the supply order for Truck Chassis in NCL's favor and the invoice, Form 21 & 22, Packing List, Guarantee Certificate should be addressed to various projects of NCL as permanent registration is to be done with respective RTOs in NCL's name for availing Cenvat credit by NCL. Respective consignees shall provide CST/TIN No. & PAN No. to M/s Tata Motors Ltd. for issuance of Invoice.
3. **CST:** Central Sales Tax will be payable extra at actuals as legally applicable at the time of supply which is presently applicable @ 2% against Form C. For availing concessional rate of Sales Tax, requisite Sales Tax declaration form will be furnished by the Consignee(s).
4. **Entry Tax:** Shall be paid extra at actual by the respective Paying Authorities of Amlohri, Jayant & Nigahi Projects directly to M.P. State Authority. Present rate of Entry Tax is @2% for supplies to the projects situated in state of Madhya Pradesh only. For supply to Bina and Khadia Projects situated in UP, way bill should be obtained from the respective Depot Officers, of Bina and Khadia Projects.

NOTE: If there be any increase in the rates of taxes and duties during the extended delivery period beyond the stipulated / scheduled delivery period, NCL shall not pay the increase in the Taxes & Duties and the increase will be to supplier's account and in case there is any decrease, the same shall be passed on to NCL.

5. **SECURITY DEPOSIT:** You are advised to submit Security Deposit within 15 days for Rs.18,77,616.00 (Rupees Eighteen Lakh Seventy Seven Thousand Six Hundred Sixteen only) in the form of Bank Draft payable at Morwa Branch, Dist, Singrauli (M.P.) of any Nationalized/Scheduled Bank or in the form of Bank Guarantee executed by any Nationalized / Scheduled Bank in the prescribed Format as per Annexure J of NIT in favor of Northern Coalfields Limited. In case you fail to deposit the Security Money, the order shall be cancelled & the case shall be processed to order elsewhere & your firm's performance shall be kept recorded for future dealings with you. Security Money will be refunded within 30 days of satisfactory execution of the supply order. Security money may be converted into performance Bank Guarantee. Whenever Security money shall be treated as performance coverage of the supply order the operation of security Money BG/ Performance BG shall be guided

by the stipulated Performance Bank Guarantee & Guarantee/ Warranty clause of this supply order.

6. Delivery: Within 180 days from the date of this supply order.

7. Consignee & Paying Authority:

| SI No. | Name of Consignee | Name of Paying Authority | Qty. |
|--------|--|--|------|
| 1 | The Depot Officer, Regional Stores, Bina Project, PO Bina Colliery, Dist. Sonbhadra (UP) | The Area Finance Manager, Bina Project, PO Bina Colliery, Dist. Sonbhadra (UP) | 1 |
| 2 | The Depot Officer, Regional Stores, Khadia Project, PO Khadia Colliery, Dist. Sonebhadra (UP) | The Area Finance Manager , Khadia Project, PO Khadia Colliery, Dist. Sonebhadra (UP) | 2 |
| 3 | The Depot Officer, Regional Stores, Amlohri Project, PO-Amlohri Colliery, NCL, Dist Singrauli (MP) | The Area Finance Manager, Amlohri Project, PO-Amlohri Colliery, NCL, Dist Singrauli (MP) | 2 |
| 4 | The Depot Officer, Regional Stores, Jayant Project, PO Jayant Colliery, Dist. Singrauli (MP) | The Area Finance Manager, Jayant Project, PO Jayant Colliery, Dist. Singrauli (MP) | 1 |
| 5 | The Depot Officer, Regional Stores, Nigahi Project, PO Nigahi Colliery, Dist. Singrauli (MP) | The Area Finance Manager , Nigahi Project, PO Nigahi Colliery, Dist. Singrauli (MP) | 1 |

8. TERMS OF PAYMENTS:

(a) 80% payment shall be released against submission of bills in triplicate along with receipted challans within 21 days of receipt & acceptance of Truck Mounted Hydraulic Ladders/Hydraulic Manlifters at site by the consignee and receipt and acceptance of Performance Bank Guarantee by the consignee complete in all respects, whichever is later.

(b) Balance 20% payment shall be released within 21 days after successful commissioning of the Truck Mounted Hydraulic Ladders/Hydraulic Manlifters to be certified by respective Staff Officer (E&M) of the Projects.

The payment will be made by “Electronic Fund Transfer” (EFT) or e-payment after receipt and acceptance of Performance Bank Guarantee.

The full details of Bank Name, Bank Address & Account No. & other relevant details must be indicated.

9. Firm's Bank Details:

Name of Bank : Bank of India.
Branch Address : Vishnu Garden Branch, New Delhi-110018
Account No. : 604030110000015
IFSC Code : BKID0006040

10. SUBMISSION OF BILLS:

A. Following documents may be submitted to the Consignee:

- i) Delivery Challan in original.
- ii) One copy of the Bill.
- iii) Guaranty/ Warranty Certificate
- iv) Price Fall Clause certificate
- v) Any other relevant dispatch documents specified in the Order.

B. Following documents should be submitted to the Paying Authority :

- i) 100% bill in triplicate duly pre-receipted and stamped.
- ii) Certificate for Price Fall Clause.
- iii) Copy of the Consignment Note/Warranty /Guarantee Certificate.
- iv) Any other relevant document specified in the Order.

11. LOWEST PRICE CERTIFICATE: You shall submit a certificate certifying that the prices charged by you against this Supply Order are the lowest and are same as applicable to other Government Departments/ Undertakings/ Other Organizations.

You shall also certify that the prices charged are not higher than rates quoted / prices charged by you for same / similar items to other Customers.

12. INSPECTION:

Pre-delivery inspection at the manufacturer's works as well as Final inspection at the consignee's end shall be carried out by the authorized representative of GM (E&M)/NCL Hqr in each case.

13. RISK PURCHASE: In the event of failure of supplier to deliver or dispatch the stores within the stipulated date/period of supply order, or in the event of breach of any of the terms and conditions mentioned in the supply order, Northern Coalfields Limited have the right to purchase the stores from elsewhere after due notice to the defaulting supplier at the risk and cost of the defaulting supplier. It is mentioned clearly that in the event of failure of supplier as detailed above, the cost of risk purchase exercise may be recovered from the bills against any other supplies pending at NCL and also in any other Subsidiary Company/Coal India Limited.

14. LIQUIDATED DAMAGE: In the event of failure to deliver the stores within the stipulated date/period in accordance with the specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, NCL shall have the right:-

a) To recover from the successful tenderer as agreed liquidated damages a sum not less than 0.5% of the price of any store which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to a ceiling of 10%. Where felt necessary, the limit of 10% can be increased to 15% at the desertion of GM (MM)/ NCL.

OR

b) To purchase from elsewhere after due notice to the successful tenderer on the account and at the risk of the defaulting supplier the stores not supplied or other of a similar description without cancelling the supply order in respect of consignment not yet due for supply.

OR

- c) To cancel the supply order or a portion thereof and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also-
- d) To extend the period of delivery with or without penalty as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to in clause (a) above.
- e) To forfeit the security deposit - full or in part.
- f) Whenever under this contract, a sum of money is recoverable from and payable by the supplier, NCL shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum or which at any time thereafter may become due to the successful tenderer in this or any other contract. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay NCL on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

15. PRICE FALL CLAUSE: If you, at any point of time during the period of execution of supply of the contract of NCL, supply equipment /store of identical description in India to any customer including CIL, Subsidiary Companies at a price lower than the price stipulated in the first contract, you shall forthwith notify such reduction of sale price and NCL shall amend its contract price to the lower price. In event of non-intimation by you to this effect, suitable penal action may be considered against you.

The price fall clause shall apply when the period of execution of supply against contract of NCL (first contract) is concurrent with supply of another contract by you to other organisation including CIL/Subsidiary Companies (other contract). The lower price of the two will be applicable against the supplies made against the first contract, during the concurrent period of execution of supplies of the said two contracts.

16. COMPOSITE WARRANTY/GUARANTEE:

The Vehicle shall be covered by Manufacturer's standard guarantee / warranty. However you shall give a Composite Warranty for satisfactory performance of the supplied Truck Mounted Hydraulic Ladder for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance of Truck Mounted Hydraulic Ladder at consignee's end whichever is earlier.

You shall be responsible for any defect that may develop under the conditions provided for by the contract and under proper use, arising from faulty materials, design or workmanship and shall remedy such defect at your own cost. If it becomes necessary for you to replace or to renew any defective part, such replacement or renewal shall be made by you 100% free of cost without any extra cost to Northern Coalfields Limited. The new goods should be supplied on FOR destination basis free of cost.

Warranty Replacement should be completed within a reasonable period maximum within one month from the date of claim free of cost up to ultimate Consignee's end. All cases of warranty replacements to be decided on the basis of joint inspection of

the failed goods held between the user's representative and the manufacturer's representative.

17. PERFORMANCE BANK GUARANTEE: You will submit Performance Guarantee for Rs.18,77,616.00 (Rupees Eighteen Lakh Seventy Seven Thousand Six Hundred Sixteen only) to cover both satisfactory performance and warranty. The Performance Guarantee should be furnished in the form of Bank Guarantee executed by any Nationalized / Scheduled bank on a Non-Judicial Stamp Paper of required value in NCL's prescribed Format i.e. as per Annexure K of NIT. The stamp paper must be in the name of issuing Bank and the BG must be kept valid for minimum 21 months from the date of receipt & acceptance of materials at consignee's end which shall be either released after expiry of its validity period if no claim/dispute is pending or extended thereafter for proper coverage of Guarantee/Warranty of Truck Mounted Hydraulic Ladders or may be invoked/encashed by NCL against unsatisfactory/adverse performance of the Truck Mounted Hydraulic Ladders as the case may be. Security money may be converted into Performance Guarantee. In case Security money is submitted in the form of Bank Guarantee, the same may be converted into Performance Bank Guarantee provided the validity is 21 months from the date of receipt & acceptance of materials at consignee's end. Whenever Security money shall be treated as performance coverage of the contract, operation of security Money BG/ Performance BG shall be guided by Guarantee/ Warranty clause of this supply order.

18. JURISDICTION OF COURT: All disputes are subject to jurisdiction of "Singrauli court" only.

19. Technical Support & Services: In addition to normal After Sales Service, you shall render Technical Support and Services to ensure Proper Usage, Maintenance and satisfactory Performance of the supplied Diesel Browsers.

This order will also be governed by the "General Terms & Conditions of supply of Stores" enclosed with our NIT and all the terms & conditions thereof as well as Provisions of CIL Purchase Manual will be applicable unless otherwise specified in this order.

You are requested to kindly acknowledge receipt and acceptance of order within 10 (Ten) days from the date of issue of order. In case no reply is received, it will be presumed that the order has been accepted by you without any precondition.

Yours faithfully,

For and on behalf of Northern Coalfields Limited, Singrauli

(V. K. Verma)
Asst. Manager (MM)

(D. Dhanabalan)
Sr. Manager (MM)

Encl:

1. Details of Technical Specification – Annexure-I

Copy to:-

The Chief Vigilance Officer, NCL,Singrauli..
 The Director Technical (Operation), NCL, Singrauli
 The General Manager(E&M), NCL, Singrauli
 The General Manager(Finance), NCL, Singrauli
 GM/SO(E&M)/AFM/Depot Officer, Bina/Khadia/Amlohri/Jayant/Nigahi.
 The General Manager(MM), CIL/CCL/BCCL/ ECL/SECL/ WCL/ MCL/NEC.

This supply order is issued against Indents of Bina, Khadia, Amlohri, Jayant & Nigahi Projects as detailed below for procurement against replacement of Surveyed off Truck Mounted Hydraulic Ladder / PR Provisions (PRP):

| Sl. No | Project | Indent No. & Date | Sanction No. & Date / Survey Off Sanction No. & Date | Against Surveyed off / PRP |
|--------|---------|---------------------------------------|--|---|
| 1 | Jayant | Nil dtd.31.03.10 | NCL/SGR/LV/Sanc./2009/71 dtd 12.06.09 | MP17C-0490 |
| 2 | Khadia | KHD/E&M/13-14/LV/1704 dt.17.01.14 | NCL/SGR/E&M/Sanction/2014/3534 dtd 14.06.14 : NCL/SGR/E&M/Sanction/13/2080 dtd 13.11.2013 | Light Crane (Truck Mounted) Chassis No. 344073376008; Engine No. 28C9131218811 0251 |
| | | 1429 dtd.19.06.13 | NCL/SGR/E&M/Sanction/2013/2045 dtd 11/12.11.2013 | Against PRP |
| 3 | Bina | Bina E&M ATW with Chassis dtd18.10.08 | NCL/SGR/E&M/Sanction/2009/1031 dtd. 27.08.09 | Against Approved Scheme |
| 4 | Amlohri | 112 dtd 22.12.12 | NCL/SGR/E&M/Sanction/13/2124 dtd 23.11.13 | Against PRP |
| 5 | | 135 dtd 24.11.13 | NCL/SGR/E&M/Sanction/2013/1490 dtd 09/10.09.13 | Against PRP |
| 6 | Nigahi | Nil dtd 25.02.13 | ---- | Against PRP |

NOTE: As per office Memorandum of Ministry of Finance Govt of India, Purchase of vehicle is banned until further orders except against condemned vehicles. This Supply Order for the procurement of 01 No. of Truck Mounted Hydraulic Ladder for Jayant Project & 01 No. for Khadia Project are to be made against Survey off TMH Ladder as per FD's following decision taken in its 456th meeting received vide letter no-NCL/Board/119(456) 421 dtd. 19.05.2014 of Company Secretary:

Quote:

FDs approved the proposal, as submitted, for procurement of vehicle against the initial surveyed off vehicle with condition that immediately after receipt of new vehicle it is

ensured that the corresponding vehicle against which new vehicle is received is grounded for disposal.

Unquote

This instruction must be strictly complied by GM(E&M) NCL and GMs of the respective Projects.

This Supply Order for the procurement of remaining 05 Nos. of Hydraulic Ladders against PR Provision and approved Scheme are to be made as per FD's following decision taken in its 465th meeting received vide letter no- NCL/Board/11(465)/ 974 dtd 08.11.2014 of Company Secretary:

Quote:

FDs agreed to the proposal for considering Diesel Bowser, Explosive Vans, Fire Tender, Hydraulic Ladder, Mobile Service Van, Truck Mounted Crane, Water Tanker as supporting equipment for operation and maintenance of mining activities and not barely a vehicle and directed that procurement of new equipment be processed accordingly."

Unquote

This Supply Order is issued against Indent Registration No. 116A1032 dtd 20.05.2016 for procurement of 07 Nos. of Truck Mounted Hydraulic Ladders/ Hydraulic Manlifters with the concurrence of Assoc. Fin. to Dir(T/Op) and approval of Dir (Tech/Op), NCL having Finance Concurrence No. NCL/HQ/FC/2017-18/Capital/Vehicle/01 dtd. 10.02.2017 for Rs. 1,87,76,160.00 (Rupees One Crore Eighty Seven Lakh Seventy Six Thousand One Hundred Sixty only) and Budget Certified vide ref. no. NCL/HQ/C&B/Capital/Vehicle/2017-18/01 dtd. 10.02.2017 for Rs.1,87,76,160.00 (Rupees One Crore Eighty Seven Lakh Seventy Six Thousand One Hundred Sixty only) of GM (Fin) C&B.

Asst. Manager (MM)

Sr. Manager (MM)

ANNEXURE-I

BROAD TECHNICAL SPECIFICATION AND OTHER REQUIREMENT FOR TRUCK MOUNTED HYDRAULIC LADDER (MAN LIFTER)

1. **Scope:** The scope shall include design, manufacture, supply and commissioning / testing of truck mounted ladder (Hydraulic man lifter) between cabin and the body on Tata LPT1613 TCIC BSIII truck chassis. The truck mounted ladder shall be compact in design and dimensions so as to take minimum space of the chassis between cabin and body. The equipment shall be made as per relevant RTO Rules. The equipment shall be made as per relevant safety code & Rules.

The truck mounted ladder shall be supplied complete with all the accessories / standard fittings and shall also include the following:-

- a) The procurement and supply of truck chassis with cabin and PTO.
- b) Mounting of truck mounted ladder at supplier's works and testing/commissioning of truck mounted ladder.
- c) Transportation of truck chassis with mounted ladder from supplier's works to the consignee.
- d) First fill of oil and grease.
- e) One set of standard tools & tackles required for operation and maintenance of truck mounted ladder.
- f) One set of oil seals , filter element and hoses.
- g) 5 sets of operation manual / parts catalogue, trouble shooting manual and other technical information.

2. **Service Conditions:** The truck mounted ladder shall be suitably designed to operate satisfactorily in heavy coal dust laden atmosphere, Ambient temperature upto 50 degree Celsius. 95% relative humidity and other service conditions prevalent in the coal mining area. It shall be capable of operating continuously in slushy & tropical conditions.

3. **Specification of Chassis :**

| |
|---|
| a. Gross vehicle weight : Not less than 16000 |
| b. Wheel Base: Not less than 4200 mm |
| c. Number of wheels : 6 nos (For each Truck). |
| d. Number of wheel axles : 2 nos |
| e. Turbocharged diesel Engine conforming BS-III/IV |
| f. Steering : Power Steering |
| g. Power : Not less than 89 KW @ 2500RPM |
| h. Torque : Not less than 410 NM @ 1400 - 1700 rpm |
| i. Gearbox : Synchromesh on all forward gear |
| j. Fuel Tank Capacity : Min 200 Lit. |

4. **Salient Specifications for Hyd Man Lifter :**

- | | | |
|---------------------------------------|---|----------------------|
| a) Max. working height | : | 13.00 mtrs (approx.) |
| b) Cage floor max. height from ground | : | 11.50 mtrs (minimum) |
| c) Max. out reach | : | 6.00 mtrs (approx.) |

| | | |
|----------------------------------|---|---------|
| d) Working load | : | 300 kgs |
| e) Insulation of cage (FRP Cage) | : | 11 KV |

5. **DETAILS OF CONSTRUCTION FEATURES:**

a. **Sub-frame Structure:** The truck mounted ladder shall be built on a rigid fabricated sub-frame bolted to the truck chassis rails. The sub-frame assembly shall house hydraulic tank, turn table assembly, stabilizer assembly and base control console. The truck deck shall be of chequered plate with safety railings and shall also include a box cum-seat for storage of tools, spares etc.

b. **Booms:** There shall be two booms. The booms shall be made of structural steel duly painted. The lower boom is attached to the cradle fixed on the turn table assembly. One end of the upper boom is attached to the lower boom and the other end carries the workman's cage. Levelling rod system shall pass through both the booms to keep the platform vertical in all positions.

c. **Hydraulic Cylinder:** There shall be two heavy-duty hydraulic cylinders for lifting the booms. The cylinders shall be single stage double acting provided with load holding valves to eliminate any possibility of creep. Similarly, there will be two cylinders for stabilizers.

d. **Stabilizers:** The equipment shall be provided with two nos. heavy-duty stabilizers. The stabilizers shall provide stability to the equipment during operation. The hydraulic jacks of the stabilizers shall have locking valves so as to provide a solid base for the unit to stand upon independent of the chassis suspension. When retracted, the stabilizers shall not extend beyond the vehicles' sides. The stabilizers shall be provided with swivel pads to disperse the imposed load.

e. **Turn Table:** The turn table shall rest on heavy duty taper roller bearings. It shall be rotated with the help of a hydraulic motor through a worm reduction gear for optimum torque and pressure rotation control. The rotation shall be 360 degree continuous in either direction. The turn table shall be provided with permanent brake, which is hydraulically released only when the rotation is desired.

f. **Workman's Cage:** A workman's cage made of FRP moulding shall be provided. The cage shall have openings on three sides for entrance and exit. Dual levelling rods made from steel tubes shall be provided in order to give positive levelling and to avoid swinging and frequent adjustments of the cage.

g. **Hydraulic System:** Hydraulic pressure to operate the Aerial Tower shall be developed by a hydraulic pump run off the vehicle's gear box through a power take off unit. The hydraulic circuit shall be protected against over load by incorporation of a relief valve, which by passes pressurized oil back to the tank in the event of safe working limits being exceeded. A large hydraulic reservoir with a built-in-suction strainer and return-line filter element and rigid steel piping shall be used throughout with flexible hoses at joints.

h. **Emergency System:** A stand-by manually operated hydraulic pump shall be built into the system to retract the ladder and stabilizer cylinders in the event of failure of the truck engine, power take off or the hydraulic pump.

i. **Controls:** Controls for operation of the booms shall be provided both on the deck of the vehicle as well as in workman's cage. The controls for stabilizers are provided on the deck only. All the controls are dead man type. The control system shall have special Directional Control Valves with Part Relief System to avoid extra heating of the hydraulic system for longer life of all Hydraulic Components and Hose pipes.

j. **Safety features:** Inter-locking shall be provided between stabilizers and booms whereby it will not be possible:

- a) to raise the booms when the stabilizers are not extended;
- b) to drive the vehicle when the stabilizers are extended;
- c) to retract the stabilizers, until the booms have been lowered.

Fail-safe devices shall be provided to prevent the unit from free falling

6. **Technical Parameters:**

| SI No | Particulars | Details |
|-------|---|--------------------------|
| A | Make of Chassis used for Truck Mounted Ladder | Tata LPT 1613 TCIC BSIII |
| B | Model number of Truck Chassis used for Truck Mounted Ladder | 1613 Chassis |
| C | Maximum working height of Cage floor from the ground (Meters) | 11.5 Mtrs. |
| D | Minimum Cage floor height from ground (meters) | 1.1 Mtrs approx. |
| E | Maximum outreach (Meters) | 6.0 Mtrs. |
| F | Overall height in collapsed position (Meters) | 3.8 Mtrs. |
| G | Maximum Working load(KG) | 300 KG |
| H | Overall length of the hydraulic ladder(Meters) | 7.5 Mtrs |
| I | Detail of workman's cage | |
| | a) Insulation of cage (KV) | 11KV |
| | b) Type of cage (FRP or Metal cage) | FRP |
| | c) Cage size (L X B X H - Meters) | 1.1M X 0.8 X 1.1 Mtrs |
| J | No. of Hydraulic Cylinder provided | 2 Nos. |
| K | No. of Stabilizers provided | A (Type) 2 Nos. |
| L | Details if Hydraulic Pump | Dowty Make |
| M | Details of Hydraulic Motor | M Plus, Dentoss, V-Tech |

7. Standard accessories to be provided with the each vehicle -

- a. Spare wheel including tyre and tube :1 No
- b. Tool Kit :1 Set
- c. Jack : 1 No.
- d. Spare parts catalogue and Maintenance manual. : 1 Set

8. The vehicle chassis in all respect shall Conform to

- a. Central Motor Vehicle Rules 1989(amended up-to-date)
- b. Central Motor Vehicle Rules 1997(amended up-to-date)
for mass emission Standards (Diesel Engine).

Asst. Manager (MM)

Sr. Manager (MM)