



## BEML LIMITED

Regional Office, PB No.05,  
Jingurdha Colliery,  
Singrauli, Dist. Singrauli- (MP) 486889  
Phone: 07805-272668, Fax: 07805-272282, TIN:27390264883

Ref. No: BEML/MS/WDL 33-72/6300034287

Date: 18.09.2020

Dear Sir,

**Sub: E-Tender two bid system through BEML SRM for refurbishment of 04 sets of drag chain-08 times i.e. each set has to be refurbished 02 times serially & refurbishment of 02 sets of Hoist chain-02 times i.e. each set has to be refurbished 01 time of 33 CuM. Capacity W2000 Dragline working at NCL, Khadia Project.**

BEML Ltd., a Govt. of India Mini Ratna Public Sector Company under Ministry of Defence is planning for **refurbishment of 04 sets of drag chain-08 times i.e. each set has to be refurbished 02 times serially & refurbishment of 02 sets of Hoist chain-02 times i.e. each set has to be refurbished 01 time of 33 CuM. Capacity W2000 Dragline working at NCL, Khadia Project.**

Firms may download the tender documents and submit the tenders online through BEML SRM System.

Please go through the instruction and submit your bid in SRM System complete in all respects **before 14.00 Hrs. of date 12.10.20**

Thanking you,

Yours faithfully,

For BEML LIMITED

Regional Manager

Encl: Tender Document – 15 pages.

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**TENDER DOCUMENT**

**FOR**

**REFURBISHMENT OF 04 SETS OF DRAG CHAIN-08 TIMES I.E. EACH SET HAS TO REFURBISHED 02 TIMES SERIALLY & REFURBISHMENT OF 02 SETS OF HOIST CHAIN-02 TIMES I.E. EACH SET HAS TO BE REFURBISHED 01 TIME OF 33 CUM. CAPACITY W2000 DRAGLINE WORKING AT NCL, KHADIA PROJECT.**

**CLOSING DATE & TIME**

**12.10.20 at 14.00 Hrs.**

**Date of Opening of Technical Bid & Time**

**13.10.20 at 15.00 Hrs.**

This Tender Document contains 15 Pages

## BEML LIMITED

Regional Office, PB No. 5, Jingurdha Colliery, Singrauli, Dist. Singrauli- (MP) 486889

### Limited Tender Notice

- **Tenders invited in two-bid system (Technical Bid and Commercial bid in e-mode through BEML SRM platform)** are invited from reputed contractors who have Previous experience in major Repair / Refurbishment of WDL buckets or bucket jewellery items on Walking dragline. Work experience of only preceding 05 years will be considered for technical evaluation.

#### **DESCRIPTION OF WORK:-**

**Refurbishment of 04 sets of drag chain-08 times i.e. each set has to be refurbished 02 times serially & refurbishment of 02 sets of Hoist chain-02 times i.e. each set has to be refurbished 01 time of 33 CuM. Capacity W2000 Dragline working at NCL, Khadia Project.**

#### **SCOPE OF WORK FOR DRAG CHAIN REFURBISHMENT:-**

The parent material weld build up if any shall be carried out by E11018 Electrodes. The following are the procedure:

1. Clean the surface area intended for weld build up.
2. Ensure the area crack free by visual inspection.
3. Preheat the portion of surface before starting the weld build up to a temperature of 250°C.
4. Carry out welding using AWS E7018 electrode.
5. Weld toes should be smoothly ground.
6. The dimensions & contour to be ensured as per the sketch enclosed for end link & Overall length of drag chain (Intermediate link to be build up inline with existing less worn out dimensions) after weld build up area.
7. Conduct DPT test to ensure free from surface defects.
8. For welding of wear plates to maintain the required thickness of the chain, you may choose electrodes based on wear plate raw material. For example, In case of Mild steel wear plate – E7018 electrodes

Weld Precautions during the Parent material build up:

1. No undercut is permitted
2. When carrying out welding, keep the earthing connections as close as possible to the job being welded.

The following are recommended brands of welding electrode for in case of E11018 specification :

S.No	Brand name	Manufacturer name	Sizes (dia,mm)	Current range, A
1.	Ultratensal- MH	D & H Secheron	3.2, 4.00	3.15mm (110-120A) 4.00mm (130-140A)
2.	Tenalloy	Ador welding	3.2, 4.00	
3.	Esab 118	Esab	3.2, 4.00	
4.	Rasi E11018 M	Rasi electrodes	3.2, 4.00	

The following are recommended brands of welding electrode for in case of E 7018 specification:

S.No	Brand name	Manufacturer name	Sizes (dia,mm)	Current range, A
1.	Supratherm	D & H Secheron	3.15, 4.00 & 5.00	3.15mm (110-130A) 4.00mm (140-160A) 5.00mm (180-200A)
2.	Esab 36 H	Esab	3.15, 4.00 & 5.00	
3.	Tenalloy	Ador welding	3.15, 4.00 & 5.00	
4.	Maxidure 7018 LH	Weldcraft	3.15, 4.00 & 5.00	
5.	Rasi E 7018 LH	Rasi electrodes	3.15, 4.00 & 5.00	
6.	Ratna 7018	Raja Ratna	3.15, 4.00 & 5.00	
7.	Anand Therme	Anand Arc Electrodes	3.15, 4.00 & 5.00	

Enclosure:

- (i) Sketch indicating overall length of Drag chain.
- (ii) Sketch indicating the dimension of End link pertaining to Drag chain.

### SCOPE OF WORK FOR HOIST CHAIN REFURBISHMENT:-

The parent material build up shall be carried out by E11018 Electrodes. The following are the procedure:

1. Clean the surface area intended for weld build up
2. Ensure the area crack free by visual inspection
3. Preheat the portion of surface before starting the weld build up to an temperature of 250°C
4. Carry out welding using AWS E11018 electrode by SMAW process.
5. Weld toes should be smoothly ground
6. The dimensions & contour to be ensured as per the sketch enclosed at build up area.
7. Conduct DPT test to ensure free from surface defects.
8. For welding of wear plates to maintain the required thickness of the chain, you may choose electrodes based on wear plate raw material. For example, In case of Mild steel wear plate – E7018 electrodes

Weld Precautions during the Parent material build up :

1. No undercut is permitted.
2. When carrying out welding, keep the earthing connections as close as possible to the job being welded.

The following are recommended brands of welding electrode for in case of E11018 specification :

S.No	Brand name	Manufacturer name	Sizes (dia,mm)	Current range, A
1.	Ultratensal- MH	D & H Secheron	3.2, 4.00	3.15mm (110-120A) 4.00mm (130-140A)
2.	Tenalloy	Ador welding	3.2, 4.00	
3.	Esab 118	Esab	3.2, 4.00	
4.	Rasi E11018 M	Rasi electrodes	3.2, 4.00	

The following are recommended brands of welding electrode for in case of E 7018 specification :

S.No	Brand name	Manufacturer name	Sizes (dia,mm)	Current range, A
1.	Supratherm	D & H Secheron	3.15, 4.00 & 5.00	3.15mm (110-130A) 4.00mm (140-160A) 5.00mm (180-200A)
2.	Esab 36 H	Esab	3.15, 4.00 & 5.00	
3.	Tenalloy	Ador welding	3.15, 4.00 & 5.00	
4.	Maxidure 7018 LH	Weldcraft	3.15, 4.00 & 5.00	
5.	Rasi E 7018 LH	Rasi electrodes	3.15, 4.00 & 5.00	
6.	Ratna 7018	Raja Ratna	3.15, 4.00 & 5.00	
7.	Anand Therme	Anand Arc Electrodes	3.15, 4.00 & 5.00	

**NOTE:-**

1. **EMD & Security Deposit:**

Tenderers are required to submit an amount of Rs.5000/- towards Earnest Money Deposit in the form of Digital transfer in favour of BEML Limited and copy of the same along with Technical Bid.

BEML Bank Account details:

Account number: 10773219053

Branch: SBI MORWA

IFSC Code: SBIN0003767

MICR Code: 486002516

2. Contract will be governed by all statutory requirements amended from time to time and General terms & conditions of the contract of BEML Ltd.
3. BEML Ltd reserves the right to reject any or all the tenders without assigning any reasons whatsoever. Decision of BEML Ltd in this regard shall be final & binding to all parties.

For BEML Limited

**Regional Manager**

## 1. INSTRUCTION TO BIDDERS:-

1. Tenderers are required to submit an amount of Rs.5000/- towards Earnest Money Deposit in the form of Digital transfer in favour of BEML Limited and copy of the same along with Technical Bid. EMD DD will be refundable.
2. Bidders are required to go through instructions carefully and submit the bid as required. Clarifications if any may please be obtained from Service Department on any working day/time.
3. Tender is in two bid system.
4. **PROJECT-IN-CHARGE.** Means the person appointed for the duties set forth in the contract / work order on its behalf and whose authority is notified in writing to the contractor by BEML.
5. Please note that as per the directives from Ministry of Defence, Class 3 Digital Signature with Encryption facility is mandatory for submission of bid on our e-Procurement system. System will not accept Class 1 or Class 2 Digital Signatures.
6. Please note that activation of the Digital Signature Token in our system happens after 12.00 midnight from the Start Date of the validity, i.e. the next date after the Start Date of the validity. Hence in case you are getting a new Class 3 Digital Signature Token or arranging renewal of the existing Class 3 Digital Signature Token, it is advisable to get the same at least two days before the due-date of the tender.
7. In case of any queries on Digital Signature or submission of bid in the system, please contact BEML SRM Team on 080-22963269, 080-22963141 or e-mail to admin.srm@beml.co.in.

## 2. SUBMISSION OF TECHNICAL BID:-

**Please upload all the technical bid documents in the RFx Information ———> Notes & Attachments in the system. Please ensure that no price details are mentioned in any of the documents uploaded as part of the Technical Bid.**

**Technical bid: Following documents should be uploaded in as mentioned above on SRM Platform:**

1. Scanned copy of the entire tender document duly signed & sealed by the bidder. Any alteration, erasure or over-writing will render the tender invalid. Alteration neatly carried out and duly attested over with the full signature of the bidder however is permitted.
2. Online payment receipt of EMD Fee.
3. The bidders shall submit relevant records in proof of complying with qualification criterion conditions along with the Technical Bid.
  - Previous experience in Repair / Refurbishment of WDL buckets or bucket jewellery items or any other major welding work on Walking dragline, rope shovel or Hydraulic excavators.
  - The vendor should have a valid bank account number and shall provide the account details in the technical bid. Payment to the contractor will be made either by crossed cheque or RTGS mode.
  - Contractors should have valid PAN Number & GST No and the same should be submitted.
  - Income Tax will be deducted at source as per the prevailing Income Tax rules.

### **3. SUBMISSION OF PRICE BID:-**

1. Please quote the price details in 'price conditions' in the system only against the respective items provided therein.
2. Select corresponding item conditions (CGST+SGST or IGST or etc.) against the respective items.
3. Technical Bids of the bidders will be opened first on the Technical Bid Opening Date/Time.
4. Price Bids of the technically accepted bidders only will be opened subsequently upon completion of the technical evaluation.
5. The bidder should accept all the terms and conditions of the tender.
6. Before making the offer the bidders are advised to carefully go through the terms and conditions, which form part of the agreement. For any further details required, Tender issuing officer of BEML Ltd., may be contacted in person or through telephone nos. 07805-266668 / or email singrauli@rm.beml.co.in.
7. BEML Ltd reserves the right to assess the capacity and capability of the parties for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender. Offer of the Bidder if prima-facie found not comparable with the quantum of work envisaged and the bid is an effort to be L1, then the offer is liable to be rejected. BEML Ltd decision in this regard shall be final and binding.
8. **PRICE BID** – The bidders are required to enter the price for all the items listed in the 'Price Conditions' in SRM System. The price should be quoted for each item after careful study of the actual job requirement so that, in case the contract awarded, contractor should not express any difficulties in execution of the contract. **L-1 firm will be considered individually for each type of chain.**
9. The rates quoted shall include both labour charges & material charges under one head individually for Drag & Hoist chain & the price quoted should be for each set i.e. one time re-build cost per set of Drag / Hoist chain. GST should be quoted extra as per the prevailing rates.
10. In the event of furnishing false information / incomplete information, the offer(s) shall be rejected.
11. BEML Ltd reserves the right to reject any bid, which is technically unacceptable and unworkable. Further BEML Ltd also reserves the right to reject any or all bids without assigning any reasons thereof.
12. BEML Ltd shall not be responsible for any acts and omissions of the staff of bidders and liabilities arising out of the acts and omissions as such will be borne by the bidders.

#### **A. SCOPE OF WORK BY THE CONTRACTOR:-**

**Refurbishment of 04 sets of drag chain-08 times i.e. each set has to be refurbished 02 times serially & refurbishment of 02 sets of Hoist chain-02 times i.e. each set has to be refurbished 01 time of 33 CuM. Capacity W2000 Dragline working at NCL, Khadia Project.**

#### **B. MANPOWER:**

Adequate skilled, semi skilled and unskilled man power should be deployed to complete refurbishment of each bucket as per the time schedule indicated.

The contractor shall provide the above manpower to carry out the complete work in one/two/three shifts as required. All the Workmen have got to be authorized by the In-

charge of the project mines of M/s NCL and they shall not be under aged and shall meet the prevailing Labor Laws/Act/Regulations/PF rules.

#### **C. SAFETY AND SAFETY EQUIPMENTS.**

Knowledge of Safety rules and regulations and ensuring their implementations and the availability of Safety Equipments, like SAFETY BELTS, SAFETY SHOES, SAFETY GOGGLES, SAFETY CAPS (HELMETS), FIRST AID BOXES AND WELDING EXTRACTION EQUIPMENT Etc., Shall be the responsibility of the contractor. The contractor shall adhere to various other Safety aspects as required. BEML Ltd shall not be responsible for any accidents to the workmen and equipments owing to safety reasons and the compensations thereof shall be taken care of by the contractor.

### **4. TERMS & CONDITIONS:-**

#### **A. QUALIFICATION CRITERIA:-**

The bidders shall submit relevant records in proof of complying with qualification criterion conditions.

1. who have Previous experience in major Repair / Refurbishment of WDL buckets or bucket jewellery items on Walking dragline. Work experience of only preceding 05 years will be considered for technical evaluation.
2. The vendor should have a valid bank account number and shall provide the account details in the technical bid. Payment to the contractor will be made either by crossed cheque or RTGS mode.
3. The bidder has to submit entire tender document with seal & signature as a token of acceptance of NIT.
4. Contractors should have valid PAN Number, GST Registration certificate.
5. Income Tax will be deducted at source as per the Income Tax rules prevailing.

Note: Bid will be treated as invalid if contractor fails to upload the digital transaction receipt in respect of EMD amount before due date & time of submission.

#### **B. GENERAL TERMS & CONDITIONS:-**

1. Receipt of digital payment of Earnest Money Deposit (EMD) as indicated in the NIT (Notice Inviting Tender) is to be uploaded with the Technical Bid documents in the C-Folder in the system.
2. EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of award of work to the successful tenderer. EMD shall not carry any interest.
3. BEML Ltd reserves the right to appropriate the whole or any part of the amount of the security deposit without prejudice to other claims against the contractor for losses suffered by BEML due to failures on the part of the contractor or due to termination of contractor becoming disqualified because of liquidation and other reasons. Such losses, damages, charges, expenses or cost, as assumed by BEML Ltd., shall be final and binding the contractor and shall not be called into question.
4. The tender document shall be deemed to form an integral part of the contract to be entered for this work.



5. BEML Ltd reserves the right to have parallel / similar contract with any number of contractors.
6. Disputes if any arising between the company and the supplier in connection with this purchase order or any other matters connected herewith that same referred to a sole arbitrator to be appointed by BEML. The arbitration / proceedings shall be in accordance with provisions of Indian Arbitration and conciliation Act 1996 and Rules framed there under. The place of arbitration shall be at Bangalore or any other place mutually decided by and between the company and the supplier and all arbitration proceedings shall be conducted in English language. The award of the sole arbitrator shall be final and binding on all the parties.
7. In case of any suit or other legal proceedings arising under or relating to this contract, the courts at Bangalore shall only have jurisdiction.

#### **5. SCOPE OF WORK BY BEML :-**

1. Expert Advice from M/s BEML be on no charge basis.
2. Arranging gate pass from NCL for transportation of the failed chains for re-furbishment.

#### **INSPECTION AND TESTS**

(i) Inspection Criteria.

The inspection criteria for acceptance of the repair work will be:

- a) Material conformance (wear plates and electrodes) as per Drawing/ standards.
- b) Welding of wear plates and hard facing as per Drawing.
- c) RT, Dye-penetrant Test and UT as per requirement for casting crack.
- d) Uniform/ required weld deposition.

(ii) Inspection Authority.

Project-in-Charge (BEML) of Dragline Maintenance, Singrauli is authorized to certify the repair Work carried out and all materials used and process adopted including the quality of wear plates and consumables like electrodes etc.

#### **6. COMMERCIAL TERMS:-**

##### **6.1 PERFORMANCE GUARANTEE (GUARANTEE PERIOD)**

1. Each refurbished set of drag chain bucket shall give a service life of 1000 working hours (Minimum). Any repair of the aggregate during Guarantee period shall be carried out at free of cost during scheduled Maintenance hours of the Equipment only. The contractor shall position for this purpose adequate Welders / Fitters with required welding Equipment including consumables for use as and when required.
2. Each refurbished set of Hoist chain bucket shall give a service life of 2000 working hours (Minimum). Any repair of the aggregate during Guarantee period shall be carried out at free of cost

during scheduled Maintenance hours of the Equipment only. The contractor shall position for this purpose adequate Welders / Fitters with required welding Equipment including consumables for use as and when required.

If the contractor fails to remedy the defects, BEML is entitled to remedy the defect or damage or order the remedies through third parties on contractors account at actual cost for such work and the same will be deducted from the contractor's bill. This shall, however not relieve contractor of his obligations regarding guarantee.

## **6.2 PENALTY:-**

Time allowed for refurbishment of each set of drag chain & Hoist chain will be 15 days & 08 days respectively from the date of handing over of failed chains.

For each week of delay, over and above the allowed time as above, a penalty of 0.5% per week or part thereof, subject to a maximum of 10% of the value of the refurbishment cost of each set of chains will be imposed.

## **6.3 PAYMENT TERMS AND CONDITION:-**

i) 90% payment related to each set of refurbishment of Hoist or Drag chain shall be made subject to acceptance certificate issued by Project-in-charge (BEML) for having completed the repair work specifying all details such as time period specs etc.,

ii) 10% payment after completion of guarantee period of 1000 hrs for each set of Drag chain & 2000 hrs for each set of Hoist chain.

## **6.4 GENERAL TERMS:-**

The contractor shall carry out Refurbishment of Drag & Hoist chains strictly adhering to BEML drawings and WELDING STANDARDS and also as per the advice from time to time by Project in-charge (BEML). Ensure full co-operation for testing of weld joints. All documents like drawings & material specifications literatures should be returned to BEML after the expiry of the contract.

## **6.5 CONFIDENTIAL CLAUSE:-**

The contractor shall use all technical information, drawings and other advices / information provided by BEML only for execution of this contract. The contractor shall not pass on any data, material or information or drawings to other agency or use for any other purpose.

## **6.6 WAGES FOR WORKMEN AND WORKMEN COMPENSATION**

(a) WAGES FOR WORKMEN.

It will be the obligation of the contractor to pay reasonable wages to the workmen employed by them. However, such wages shall not be less than the wages payable under the Minimum Wages Act, 1948 or the wages notified by the respective State/central Governments who are the concerned authorities for notifying the minimum wages payable to the workmen possessing different skills and who are engaged in executing the contract .The contractor shall also be bound by the statutory provisions of the Contract Labour Regulation and Abolition Act, Apprentices Act, PSU Act, PF ACT etc., concerning the employment of the Labour by the contractor. All the obligations under the different Act provisions shall be that of the contractor and the contractor shall indemnify BEML against any or all claims in this regard. The contractor shall also furnish the documentary evidence regarding the wages paid, correctness of the wages paid, PF and ESI payment in respect of the labour engaged for the purpose of executing the contract.

These reports shall be submitted to the Project-in-Charge (BEML). It shall also be the responsibility of the contractor to obtain statutory approvals as may be required in this behalf and BEML will in no way responsible for this action and BEML will be discharged of and indemnified against all such responsibilities.

#### **(b) WORKMEN COMPENSATION**

It is also agreed that BEML shall not be liable for any compensation to be payable in respect of any workmen employed by the contractor and it shall be the sole responsibility of the contractor for payment of compensation if any, arising during the course of execution of the contract. For this purpose, the contractor shall indemnify BEML during the currency of the contract against all such claims made by any person(s) employed by the contractor in execution of the contract.

BEML shall not be responsible for providing employment to contractor's labourers and or payment of any retrenchment benefits, and it shall be the duty and responsibility of the contractor to pay all terminal benefits at the time of completion of contract and shall produce satisfactory proof for having paid so, before the final bill is settled.

#### **6.7 SUSPENSION OF WORK:-**

The contractor shall on written order of the Project-in-charge (BEML), suspend the progress of the works or any part thereof for such time or times and in such manner as the Project-in-Charge (BEML) may consider necessary and shall during such suspension properly protect and secure the work, so far as is necessary in his opinion.

#### **6.8 DELAYS IN THE CONTRACTORS PERFORMANCE:-**

The TIME SCHEDULE for REFURBISHMENT TIME of individual types of chains (hoist & drag) as stipulated in this contract Clause Number and amendment thereof shall be the ESSENCE OF THE CONTRACT.

Except as provided under force majeure clause a delay by the contractor in the performance of its delivery obligations shall render the contractor liable to the imposition of penalty as per clause no.

– 6.2

#### **6.9 ASSIGNMENT SUB-LETTING AND SUB-CONTRACTING:-**

The contractor shall not assign the contract either wholly or part thereof or any benefit or interest therein or there under without the prior written approval of BEML.

The contractor shall not sublet the whole part of the contract. However, where otherwise provided in the contract/work order the contractor may sublet a part of the contract with prior approval of BEML. But such an approval if given shall not relieve the contractor of any of the liabilities and obligations under the contract and he shall be responsible for the acts defaults and neglects of the sub-contractor, his agents or workmen.

#### **6.10 INDEMNITY:-**

The contractor shall indemnify BEML at all times against all claims made by the contractors personnel and third parties in respect of any injuries accidents or any other claim in the form of compensation.

#### **6.11 TERMINATION OF CONTRACT:-**

One month notice will be given by BEML before termination of Contract.

#### **7.0 FORCE MAJEURE:-**

The contractor shall not be responsible for any delay in execution of this contract if the delay is caused as a result of Force Majeure.

“Force Majeure“ means an event beyond the control of the Contractor, such as Floods, wars or revolutions, epidemics, strikes (caused by other than contractors own employees/ workmen), terrorist attack etc.

#### **7.1 ARBITRATION CLAUSE:-**

If BEML and the contractor are not able to resolve any contract dispute amicably within a reasonable period of time, such disputes shall be referred to a sole Arbitrator to be appointed by BEML and the proceedings before the Arbitrator shall be governed by the provisions of Arbitrations and conciliation Act 1996, in which event the Arbitration proceedings shall be held at Bangalore and the Arbitrator shall be required to give a reasoned award. Courts in Bangalore alone shall have jurisdiction in the matter.

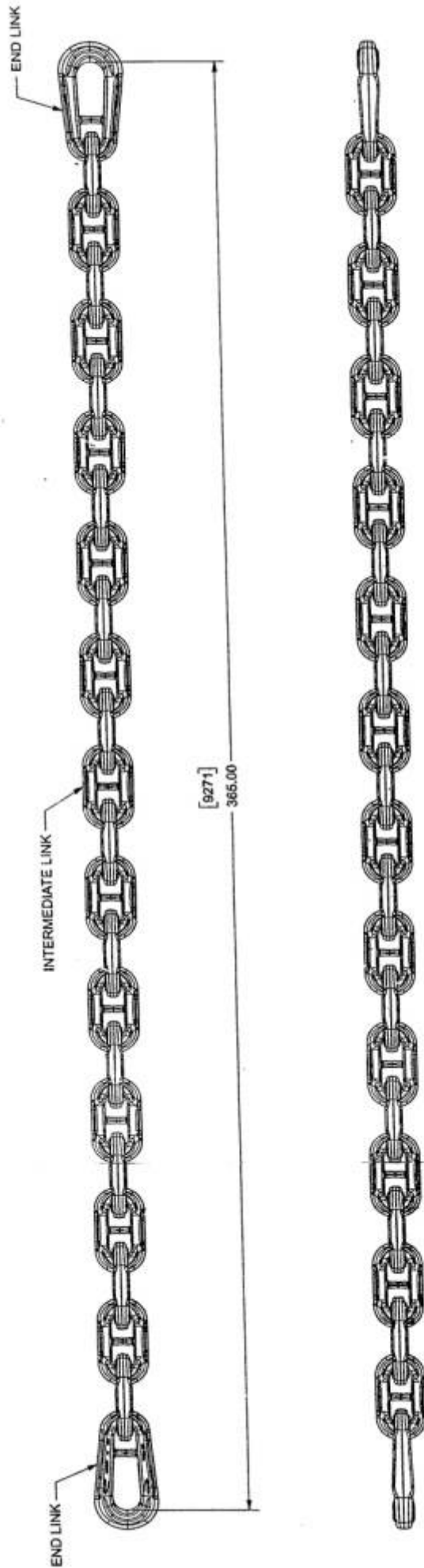
## **7.2 APPLICABLE LAW:-**

The contract shall be interpreted in accordance with the laws prevailing in India.

## **7.3 JURISDICTION OF COURTS:-**

The courts in Bangalore only will have jurisdiction.

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**Regional Manager**



**DIMENSIONS OF DRAG CHAIN END LINK FOR REFERENCE.**

