

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)

* * * * *

TENDER DOCUMENT FOR
“SUPPLY OF CASTING MATERIALS FOR DIFFERENT MINOR IRRIGATION PROJECTS”

The tender document comprises of the following:

1)	Tender call notice No. OCC/CWS/PROC/MI-11/ 44 /22-23 dated. 14.12.2022	01 (One) sheet
2)	Terms and conditions	04 (Four) sheets
3)	Format in lieu of EMD	01 (One) sheet
4)	Drawings	18 (Eighteen) sheets
5)	Price schedule	02 (Two) sheet

Total :		26 (Twenty Six) sheets

**Signature of the tenderer or his/their
power of attorney holder
with designation & seal.**

**Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010**

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)

TENDER CALL NOTICE No. OCC/CWS/PROC/ MI-11 / 44 /2022-23 dated. 14.12.2022

Sealed tenders in conformity with the terms, conditions, drawing and technical specifications in tender documents are invited from reputed manufacturers / traders for **“Supply of casting materials for different Minor Irrigation Projects”** as per details below:

Cost of tender document (Non-refundable)	Sale of tender document		Receipt & opening of technical bid of tender	Opening of price schedule bid of tender
Rs. 4000/- GST @ 18% Rs.4720/- by hand or Rs.4820/- by Regd. Post/ courier	From 15.12.2022	To 21.12.2022 up to 1.00PM	Up to 3.00 PM & 3.30 P.M. on 21.12.2022	At 4.00 PM On 21.12.2022

The tender document can be purchased by the interested reputed manufacturers or their authorized dealers / traders by hand from the office of the undersigned on deposit of cost of tender document i.e. **Rs.4000/-** plus GST @ 18% amounting to **Rs.4720/-** in cash or in shape of A/c. payee demand draft drawn in favour of “Odisha Construction Corporation Limited” - Project Account on any Nationalised Bank/ Scheduled Bank payable at Bhubaneswar (Non-refundable) and production of attested copies of the following documents and verification thereof by the undersigned. The tender document can also be obtained by the interested reputed manufacturers or their authorized dealers / traders by registered post, speed post/ courier on sending the cost of tender document i.e. **Rs.4000/-** plus GST @ 18% and postage charges of **Rs.100/-** amounting to **Rs.7180/-** in shape of A/c. payee demand draft drawn as stated above and attested copies of the following documents and verification thereof by the undersigned. The undersigned will not be responsible for any kind of delay by the postal/courier authorities.

- 1) Valid GST Registration Certificate.
- 2) PAN Card
- 3) The bidders have to submit copies of purchase orders, credentials, certificates etc. in support of supply of similar items of magnitude minimum amounting to 10.00 lakh in any one year of last 5 financial years (i.e. from financial year 2017-18 to 2021-22 including current financial year 2022-23).
- 4) Tenderer should submit valid manufacturer / trader registration certificate.
- 5) Tenderer should submit format of Bid Security Declaration from Bidder in lieu of EMD.

The tender document can also be downloaded from our Website www.odishaconstruction.com or Govt. of Odisha website www.odishagov.nic.in to submit the tender (**Bidders are requested to visit our website regularly for any changes since it will not be published in news paper again**). However, the cost of tender document i.e **Rs.4000/-** plus GST @ 18% amounting to **Rs.4720/-** in shape of A/c payee demand draft as stated above in favour of “Odisha Construction Corporation Limited” - Project Account on any Nationalised Bank/ Scheduled Bank payable at Bhubaneswar (Non-refundable) along with attested photo copies of all above documents should be submitted while submitting the tender in Envelope-I. Otherwise, the offer shall not be considered and OCCL will not be responsible for missing of any page while downloading. If there will be a public holiday on the last date of sale of tender document and receipt & opening of the tender as specified above, the tender document will be sold and tender will be received & opened on the next working day at the same time and venue.

The SSI/NSIC/MSME units participating in tender are not entitled for exemption from payment of Tender Paper costs as communicated vide DOWR Letter No. IIM-24/2018-14318/WR dated 24.05.2018 & Head Office, OCCL Letter No.5502/OCC/ CW-02/09(Vol-V)(WE) dated 30.05.2018.

The tenders will be opened in the presence of the tenderers or their authorised representatives. Tender through Fax/Telex/telegram/e-mail will not be accepted

The undersigned reserves the right to accept or reject any or all quotations without assigning any reason thereof

Signature of the tenderer or his/their
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with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)

**CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)**

**TERMS AND CONDITIONS OF TENDER FOR
“SUPPLY OF CASTING MATERIALS FOR DIFFERENT MINOR IRRIGATION PROJECTS”**

- 1) Reputed manufacturers/ traders having supplied similar item of similar magnitude earlier and satisfactorily accepted by the clients will be eligible to participate in the tender. The copies of purchase orders, credentials, certificates etc. in support of similar supply and satisfactory performance thereof will be furnished along with the tender.
- 2) Tender should be submitted in two bid system in two separate sealed covers and both will be submitted in a single sealed outer cover subscribing in bold letters as **“Supply of casting materials for different Minor Irrigation projects”** and also date of opening of tender. The name and address of the tenderer should not be written on outer cover. Only the name and address of the purchaser should be written on the outer cover.
- 3)
 - i) The first envelope super scribing in bold letters as **“TECHNICAL BID”** should contain the following:
 - a. Attested copy of valid GST registration certificates. The tenderer will mention his GST Regn. No. in his tender clearly without which the tender will not be taken into consideration.
 - b. Attested copy of PAN Card.
 - c. The bidders have to submit copies of purchase orders, credentials, certificates etc. in support of supply of similar items of magnitude minimum amounting to 10.00 lakh in any one year of last 5 financial years (i.e. from financial year 2017-18 to 2021-22 including current financial year 2022-23).
 - d. Complete tender document in original including terms and conditions but without detailed specifications and price schedule duly signed on each page by the tenderer or his/their power of attorney holder. In case of power of attorney holder, an attested copy of power of attorney should be furnished.
 - ii) Second envelope subscribing in bold letters **“SPECIFICATION AND PRICE SCHEDULE”** should contain detailed specifications and price schedule in original only duly filled in without leaving any column and line blank and signed on each page by the tenderer or his/their power of attorney holder.
- 4) The tender document can be purchased by the interested reputed manufacturers / traders by hand from the office of the undersigned from **15.12.2022 to 21.12.2022** (up to 1.00 P.M) during office hours on deposit of cost of tender document i.e. **Rs.4000/-** plus GST @ 18% amounting to **Rs.4720/-** in cash or in shape of A/c. payee demand draft drawn in favour of **“Odisha Construction Corporation Limited” - Project Account** on any Nationalized Bank / Scheduled Bank payable at Bhubaneswar (non-refundable) and production of attested copies of the following documents and verification thereof by the undersigned. The tender document can also be obtained by the interested reputed manufacturers / traders by registered post/speed post/courier on sending the cost of tender document i.e. **Rs.4000/-** plus GST @ 18% and postage charges of **Rs.100/-** amounting to **Rs.4820/-** in shape of A/C. payee demand draft drawn in favour of **“Odisha Construction Corporation Limited” - Project Account** on any Nationalized Bank / Scheduled Bank payable at Bhubaneswar (non-refundable) and sending attested copies of the following documents and verification thereof by the undersigned.

**Signature of the tenderer or his/their
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with designation & seal.**

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- a. Valid GST Registration Certificate.
 - b. PAN Card
 - c. The bidders have to submit copies of purchase orders, credentials, certificates etc. in support of supply of similar items of magnitude minimum amounting to 10.00 lakh in any one year of last 5 financial years (i.e. from financial year 2017-18 to 21-22 including current financial year 22-23).
 - d. Tenderer should submit valid manufacturer / trader registration certificate
 - e. Tenderer should submit format of Bid Security Declaration from Bidder in lieu of EMD.
- 5) The tender document can also be downloaded from our Website www.odishaconstruction.com or Govt. of Odisha website www.odishagov.nic.in to submit the tender (**Bidders are requested to visit our website regularly for any changes since it will not be published in news paper again**). However, the cost of tender document i.e. **Rs.4000/-** plus GST @ 18% amounting to **Rs.4720/-** in shape of A/C. payee demand draft, as stated above in favour of "Odisha Construction Corporation Limited" - Project Account on any Nationalized Bank/ Scheduled Bank payable at Bhubaneswar (non-refundable) along with attested photo copies of all above documents should be submitted, while submitting tender in Envelope-I, otherwise, the tender will be cancelled. OCCL will not be responsible for missing of any page while downloading.
 - 6) The tenders will be received up to **3.00 PM** on **21.12.2022** and **TECHNICAL BID** will be opened in the office of the undersigned on the same day at **4.00 PM** in presence of the tenderers or their authorized representatives, if they so desire. If there will be a public holiday on the last date of sale of tender document and receipt & opening of the tenders as specified above, the tender document will be sold and tenders will be received & opened on the next working day at the same time and venue.
 - 7) The undersigned will not be responsible for any kind of delay in receipt of tenders by the postal/courier authorities.
 - 8) The **PRICE SCHEDULE BID** will be opened on **21.12.2022 PM**. Then the documents in the first envelope submitted by the tenderers will be scrutinized preliminarily on the spot. The second envelope of the valid eligible tenders after preliminary scrutiny of the documents in the first envelope will be opened on the same day immediately subject to fulfilling the requirements mentioned in the tender schedule.
 - 9) The materials should be supplied in finished / fully machined conditions by successful tenderer / supplier as per required dia, length and quantity and should strictly conform to relevant standards of Bureau of Indian Standard (BIS) as mentioned in detailed specification and price schedule.
 - 10) The original test certificate of materials from a Govt./Govt. approved testing laboratory will be provided by the successful tenderer/ supplier along with supply of materials. The manufacturer's test certificate will have to be also furnished by the successful tenderer/ supplier. The purchaser is having the option to test the materials in any laboratory at the cost of the supplier and if the materials are not found in accordance with the specifications and grade in relevant Indian Standards, the materials will be rejected.
 - 11) The materials will be guaranteed by the supplier against any defect for a period of 18 months from the date of supply or 12 months from the date of use, whichever is earlier. Guarantee certificate in this regard will accompany with supply of materials. If any defect is found in the materials within the guarantee period, the same will have to be replaced free of cost by the supplier.

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- 12) The rate of materials should be quoted by the tenderer on unit basis only. The same should be supplied by the successful supplier as per required dia, length and quantity in numbers as mentioned in detail specification and Price Schedule.
- 13) The successful tenderer shall have to furnish a performance bank guarantee for 10% value of materials within 07 days from the date of issue of Purchase Order. The Bank Guarantee shall be released after completion of the guarantee period.
- 14) Pre-delivery inspection (P.D.I) before despatch of the materials will be made at the manufacturer's works by the authorized representative of the purchaser / client / third party for which the manufacturer should intimate in writing for P.D.I. 10 days in advance regarding readiness for P.D.I.
- 15) The tenderer will quote their rates F.O.R. OCCL Store, Central Workshop, Rasulgarh, Bhubaneswar-10 (Odisha) indicating separately the basic price, packing, forwarding, transportation, transit insurance, handling charges, taxes, duties, levies etc. strictly in the specifications and price schedule format in original. All columns and lines of the specification and price schedule should be filled in properly without leaving any thing blank. The details and rates of duties, taxes etc. should be indicated clearly in the specification and price schedule.
- 16) The tenderer should quote appropriate taxes with the offer.
- 17) The rates and amounts should be quoted both in figures and words in the price schedule. Any correction or overwriting in the specification and price schedule should be duly certified by the tenderer or his power of attorney holder. In case of any mismatch in figures and words, the rates in words will be considered. In case of any mismatch in rates and amount, the rate will be considered.
- 18) 90% payment will be made within 30 days of receipt, verification and acceptance of the complete materials along with bill, test certificate, guarantee certificate and other documents. Balance 10% will be released after 18 months of supply or 12 months from the date of commissioning whichever is earlier. However if a performance bank guarantee is received for 10% of the value of materials, the same will be released within 60 days from the date of receipt of materials.
- 19) The purchaser reserves the right to forfeit and encash the performance bank guarantee in full in case any bronze casting is found defective and not replaced by the tenderer/supplier within a suitable time fixed by the corporation. Any repair to the bronze casting shall be made only after approval of the purchaser. In this connection, the decision of the purchaser is final and binding on the tenderer/supplier.
- 20) Price escalation will not be allowed under any circumstances. The quoted rates will remain firm till execution of the work order.
- 21) The validity of the offer should be for a period of 180 (One hundred eighty) days from the date of opening of the tender.
- 22) The complete ordered quantity shall be supplied by the successful tenderer within 90 (Ninety) days from the date of issue of purchase order failing which the order is liable for cancellation without assigning any reason thereof by the purchaser. In case of cancellation of the order the EMD will be forfeited. In case of any delay in supply of material beyond the delivery schedule whatever may be the reason, supplier shall be liable to pay L.D. @ 0.5% (Half percent) of the total order value per week of delay or part thereof subject to a maximum of 5% (Five percent) of the total order value.

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- 23) After submission of tender and before placing order, the bidder may be asked by the undersigned to attend techno-commercial discussions and reply to queries within a specified period. If the bidder fail to do so, the tender submitted by the bidder is liable to be cancelled.
- 24) Conditional offers with deviations will not be accepted. Those, who do not agree to the terms and conditions regarding payments, delivery and others, need not quote.
- 25) The authority reserves the right to accept/reject any or all tenders without assigning any reason thereof. The required quantity of materials can be splitted among the two or more tenderers. In this connection, the decision of purchaser is final and binding on the tenderer.
- 26) The duplicate copy of the order shall be signed by the supplier on each page with his seal as acceptance of the order and shall be returned to the purchaser within 07 (Seven) days of receipt of this order failing which the order is liable for cancellation.
- 27) Tender through fax/telex/telegram/e-mail will not be accepted.
- 28) Any dispute arising out of this tender or order thereof is to be settled in proper court under the jurisdiction of Odisha High Court at Cuttack or courts under the jurisdiction of Odisha High Court at Bhubaneswar only.

**Signature of the tenderer or his/their
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OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010**

**FORMAT OF BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMD
(In Bidders Letter Head)**

I/We the authorised signatory of M/s..... participating in the subject Tender No.....for the item/job of, do hereby declare:

That in the event we withdraw / modify our bid during the period of validity or I/we commit any breach of Tender Condition / Contract which attracts penal action and I/we will be suspended from being eligible for bidding/ award of all future contract(s) of Odisha Construction Corporation Limited, Bhubaneswar, Odisha for a period of six months from the date of committing such breach.

Signature and seal of Authorised Signatory of bidder

Name of Authorised Signatory.....

Company Name.....

**Signature of the tenderer or his/their
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with designation & seal.**

**Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010**

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)

DETAILED SPECIFICATION AND PRICE SCHEDULE FOR “Supply of casting materials for different Minor Irrigation projects” VIDE TCN No.OCC/CWS/PROC/MI-11 / 44 /2022-23 DATED. 14.12.2022 DUE DATE OF OPENING ON DATED 21.12.2022											
Sl. No.	Description of Item	Part No	Unit	Qty. Reqd. in unit	Rate per unit in Rs.					Total amount in Rs. for full materials	
					Basic Price per unit	Packing, forwarding, transportation, transit insurance, handling charges, incidental charges etc.	GST as applicable	Total in figures	Total in words	In figure	In words
SCOURING SLUICE GATE OF BORANGIJORE / JUNANIJORE / KATAGAON / PUJARIGUDA MIP											
1	200X 50X 8 th bronze pad – LTB-1 OF IS : 318 As per drawing (Annexure-I)	3-11	Nos.	48							
2	Lifting pin As per drawing (Annexure-II)	3-14	Nos.	25							
SCREW HOIST FOR SCOURING SLUICE OF BORANGIJORE / JUNANIJORE / KATAGAON / PUJARIGUDA MIP											
3	Clamp for bush – str. Steel (As per drawing) (Annexure-III)	2-16	Nos.	36							
4	Half round bush – LTB-1 of IS : 318 (As per drawing) (Annexure-IV)	2-17	Nos.	36							
SCREW HOIST FOR SCOURING SLUICE OF BORANGIJORE / JUNANIJORE / KATAGAON / PUJARIGUDA / KURKUNDA / SANKHABHANGA MIP											
5	Bushing clamp – str. Steel (As per drawing) (Annexure-V)	4-6	Set	112							
6	Split Bush- LTB-I of IS : 318 (As per drawing) (Annexure-VI)	4-7	Nos.	112							
HEAD REGULATOR GATE OF NANDIRAJORE LHR											
7	120 x 30x 12 th bronze pad- LTB-1 of IS : 318 (As per drawing) (Annexure-VII)	1-13	Nos.	4							

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Sl. No.	Description of Item	Part No	Unit	Qty. Reqd. in unit	Rate per unit in Rs.					Total amount in Rs. for full materials	
					Basic Price per unit	Packing, forwarding, transportation, transit insurance, handling charges, incidental charges etc.	GST as applicable	Total in figures	Total in words	In figure	In words

HEAD REGULATOR GATE OF BORANGIJORE LHR /RHR / JUNANIJORE LHR &RHR/ KATAGAON HR / PUJARIGUDA LHR & RHR / RUKUNANALLA RHR / SANKHABHANGA LHR MIP

8	80 x 30 x 12 th bronze pad LTB-1 of IS : 318 (As per drawing) (Annexure-VIII)	1-13	Nos.	4							
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HEAD REGULATOR GATE OF NANDIRAJORE LHR / RUKUNANALLA RHR

9	Lifting Pin – As per drawing (Annexure-IX)	1-28 / 1-18	Nos.	4							
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HEAD REGULATOR GATE OF BORANGIJORE LHR /RHR / JUNANIJORE LHR &RHR/ KATAGAON HR / PUJARIGUDA LHR & RHR MIP

10	Lifting Pin – As per drawing (Annexure-X)	1-18	Nos.	12							
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SCREW HOIST FOR HEAD REGULATOR OF BORANGIRJORE RHR / JUNANIJORE RHR / KATAGAON HR MIP

11	Bushing clamp – As per drawing (Annexure-XI)	1-2	Nos.	6							
12	Split Bush – As per drawing (Annexure-XII)	1-3	Nos.	6							
13	Nut (Ø 50mm) – As per drawing (Annexure-XIII)	2-2	Nos.	3							
14	Nut retainer (Ø50mm) – As per drawing (Annexure-XIV)	2-3	Nos.	3							

SCREW HOIST FOR HEAD REGULATOR OF BORANGIRJORE LHR / JUNANIJORE LHR / PUJARIGUDA LHR & RHR / RUKUNANALLA RHR / SANKHABHANGA LHR MIP

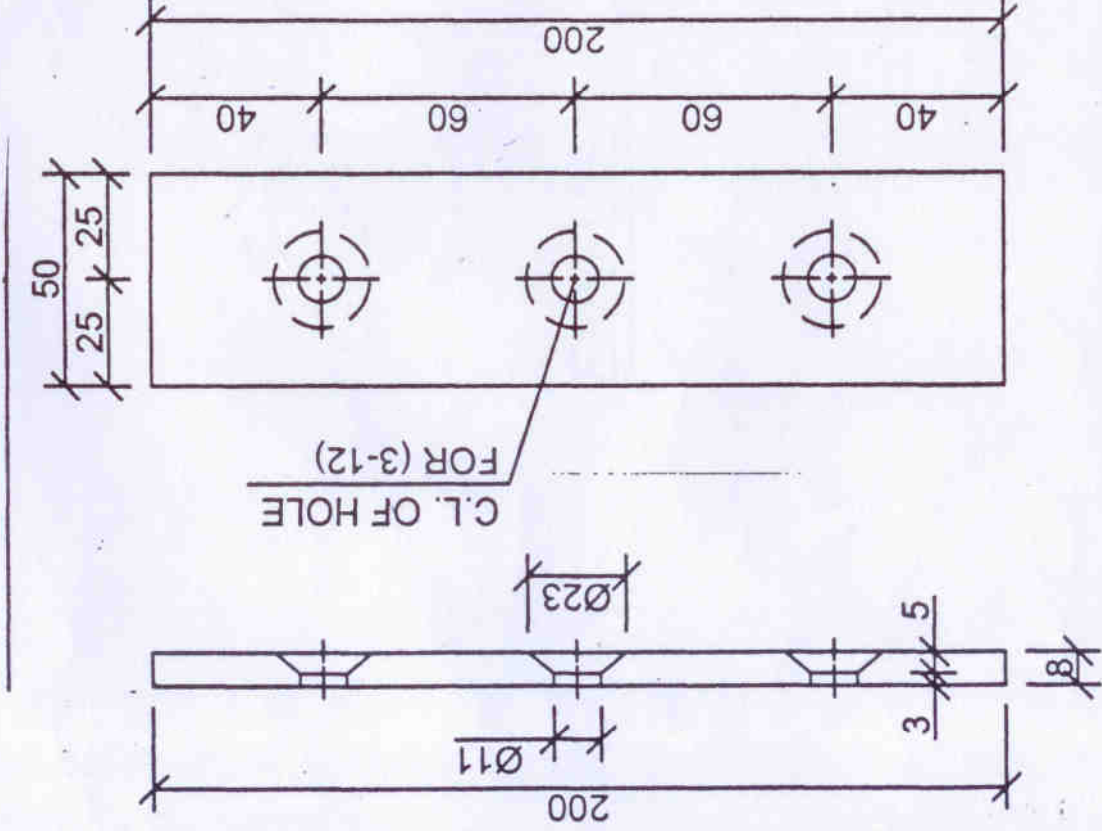
15	Bushing clamp – As per drawing (Annexure-XV)	1-2	Nos.	12							
16	Split Bush – As per drawing (Annexure-XVI)	1-3	Nos.	12							
17	Nut (Ø63mm) – As per drawing (Annexure-XVII)	2-2	Nos.	6							
18	Nut retainer (Ø 63mm) – As per drawing (Annexure-XVIII)	2-3	Nos.	6							

- N.B:-**
- 1) All the materials shall be supplied in finished / fully machined conditions.
 - 2) Lowest bid value shall be evaluated considering cumulative value of items 1 to 18.

Signature of the tenderer or his/their
power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010

Answer - I

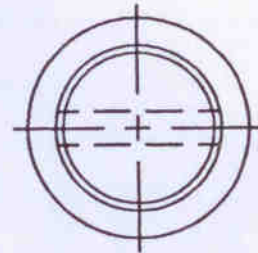


BRONZE PAD (3-11)

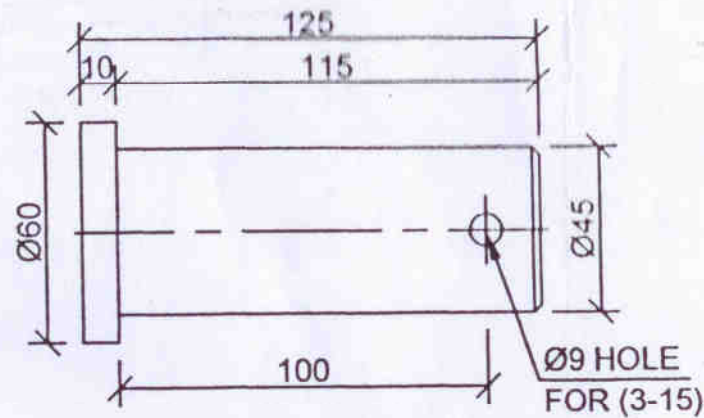
MATERIAL - LTB-1 OF IS:318-1981

Total qty - 48 (Forty eight) Nos.

Pujari gada /
Tunari gade / Katagani / Bonari gade
Sounding a service gate of minor
Irrigation project
acc.



END VIEW



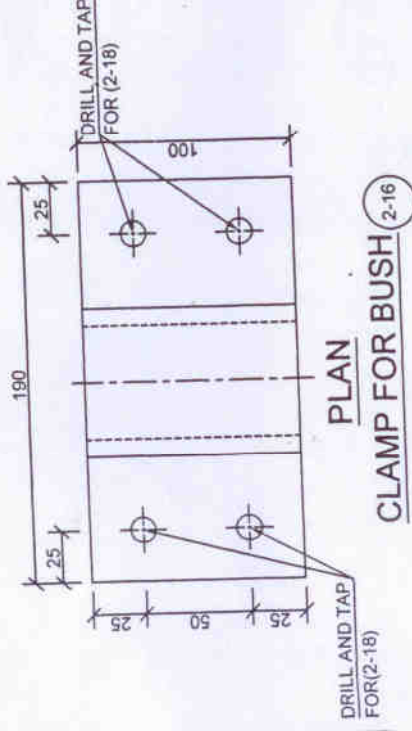
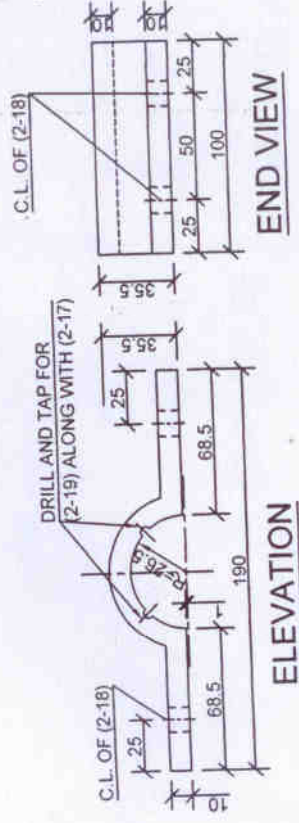
LIFTING PIN (3-14)

MATERIAL - X04Cr19Ni9 OF IS:1570(PART-V)

Total Qty - 25 (Twenty five) nos

Rajasekhar /
Sundararam / Katagam / Bonaagipone
Scouting Service of Minor
Investigation Project
occi

Annexure III



Total Qty - 36 (Thirty six) Nos

Material - Str. Steel

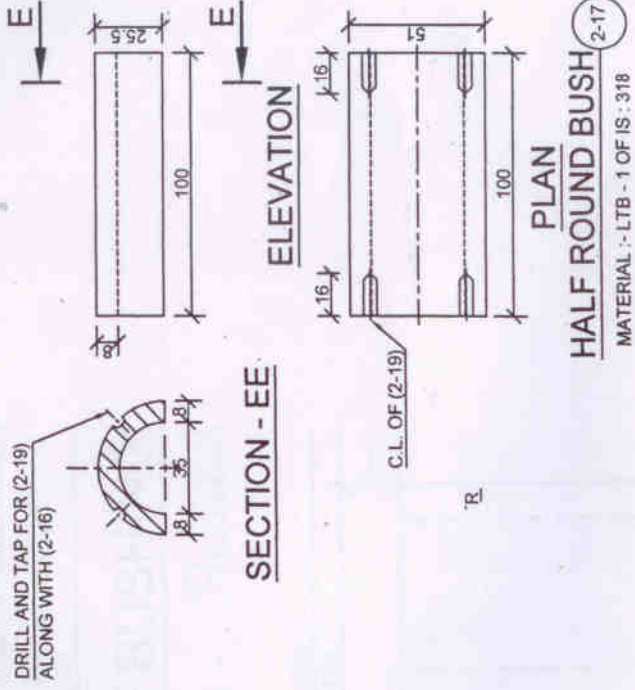
Is: B64 (Part-1) - S-1 with.

Note :- (2-18) - 1/2" bolt M12X50N
where.

(2-19) - Gumbo screws M15X16 IS: 2388

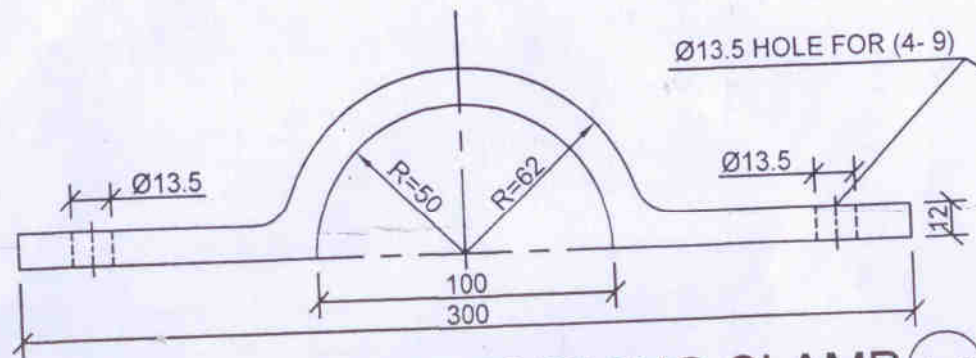
Katagaw/Boragijore/Junagone
Scouring Sluice gate of
Minor Irrigation Project
Oct.

Appendure - IV



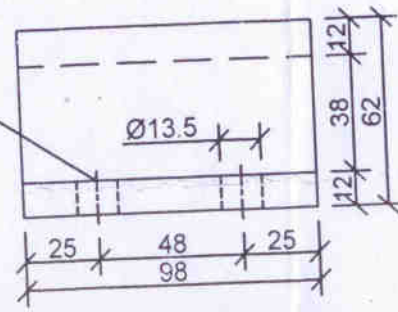
Total Qty - 36 (Thirty Six) Nos.

Katagam Bonaryjone/Taranyjone
Scouring Sluice gate of
Minon Irrigation Project
Oce.

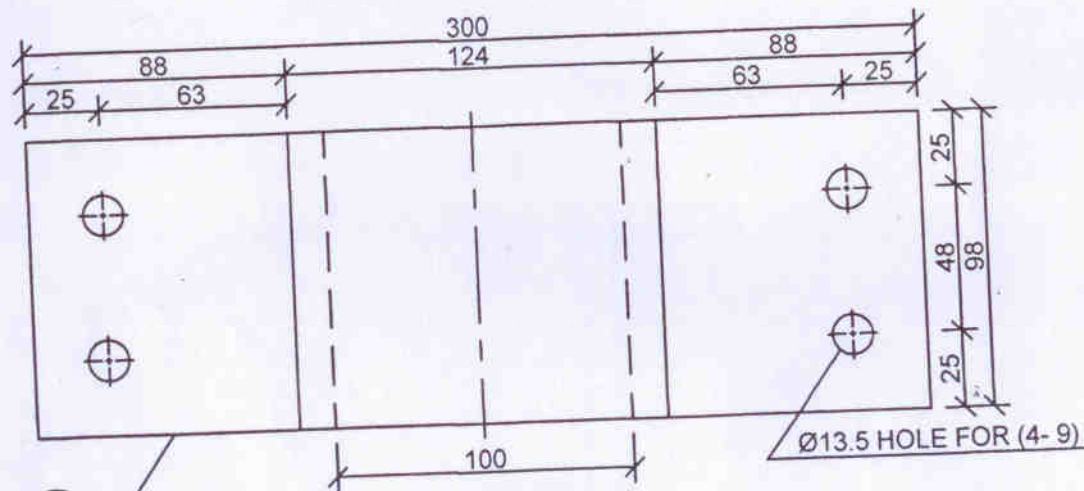


ELEVATION OF BUSHING CLAMP (4-6)

Material - Structural Steel



END VIEW



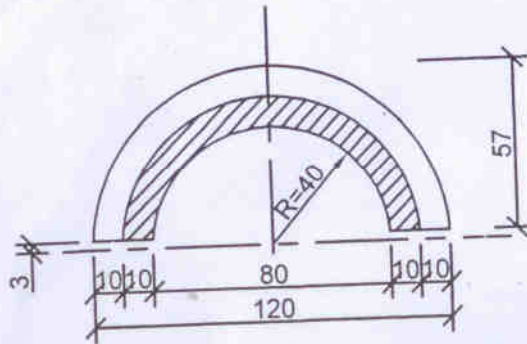
(4-6)

PLAN

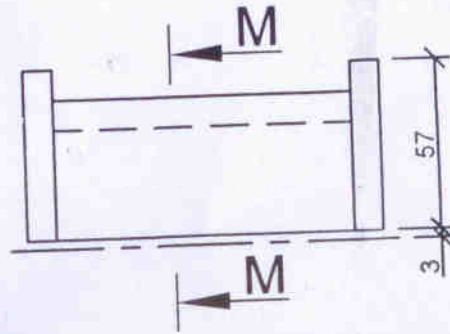
Material - Str. Steel

Total Qty - 112 Nos

Kawalunda / Jananijone / Sankhabhanga
Katazon / Pujarijone / Boraijone
Scouring sluice gate of
minor Irrigation project
OCC

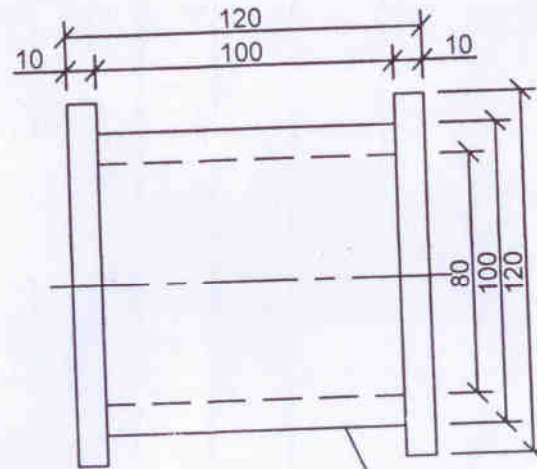


SECTION - MM



ELEVATION OF BUSH (4-7)

MATERIAL :- LTB - 1 OF IS:318

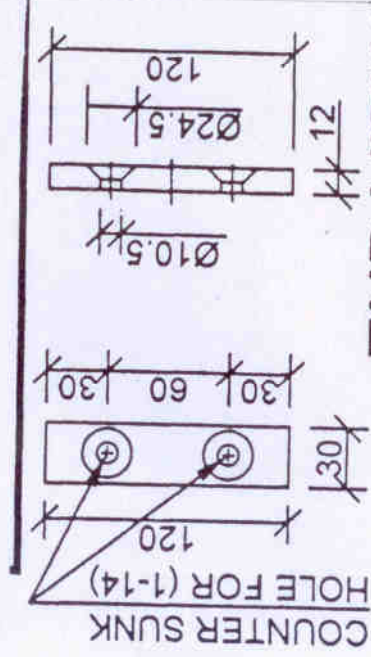


PLAN (4-7)

Total Qty - 112 Nos

Kunkunda / Tonangijone / Sakhabanga
Katagaon / Pujarijuda / Bonangijone
Scouring Sluice gate of
Mihir Irrigation Project
O.C.C.

Answer - VII



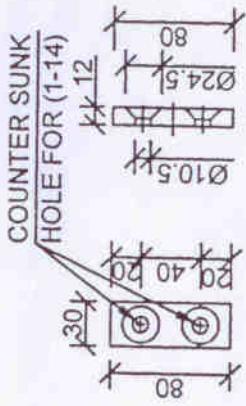
END VIEW

THRUST PAD (1-13)

Mat:- LTB-1 of IS:368

Qty - 04 Nos.

Nandiyore LTR MIP
over



END VIEW

THRUST PAD (1-13)

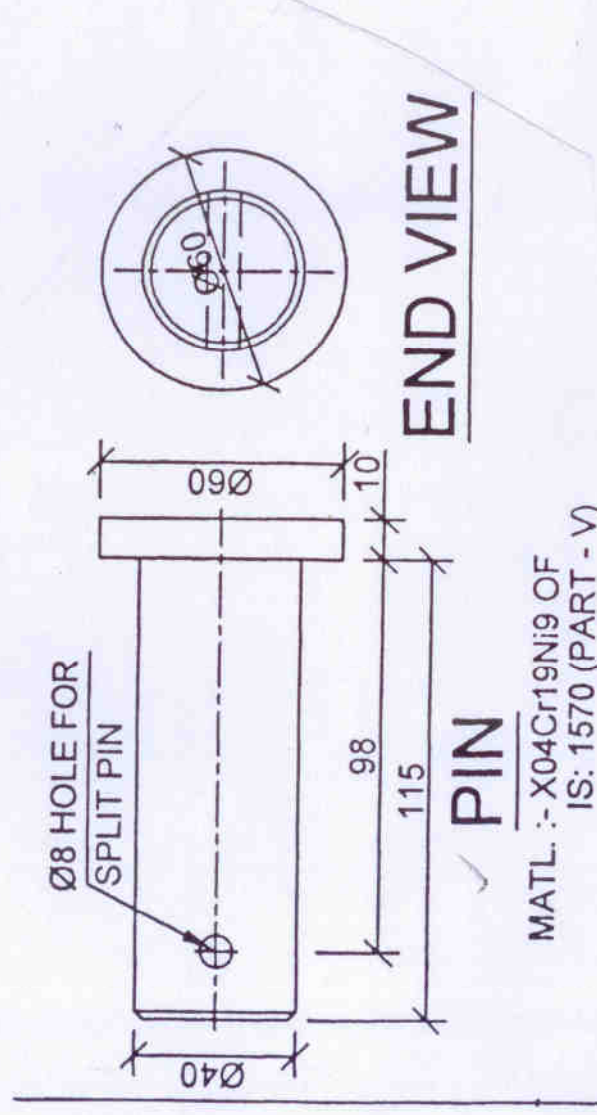
Material - LTB-1 of IS: 318

Quantity - 32 (Thirty Two) Nos

Location

Pujariyada HR/HR, Bangalore
LHR/HR, Tumacore LHR/HR/
Lukunada HR MIP
oed

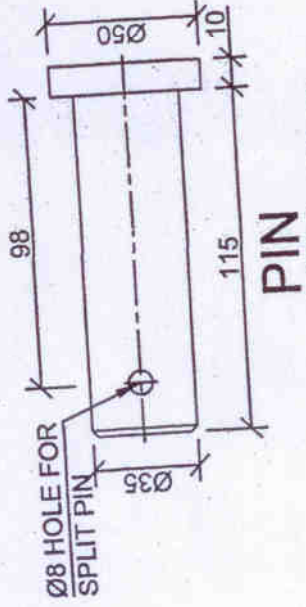
Annexure - 18



Total Qty - 04 Coupled nos

Ward itrajore Uth /
Rukmanalla Rth
M/P

Approved - X



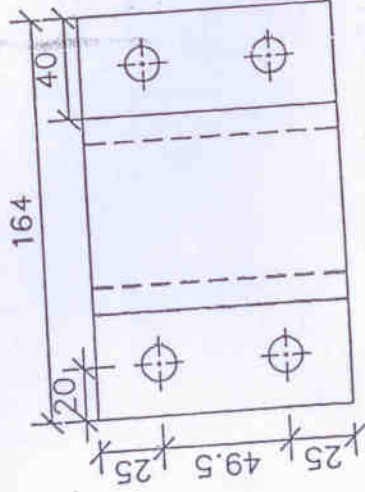
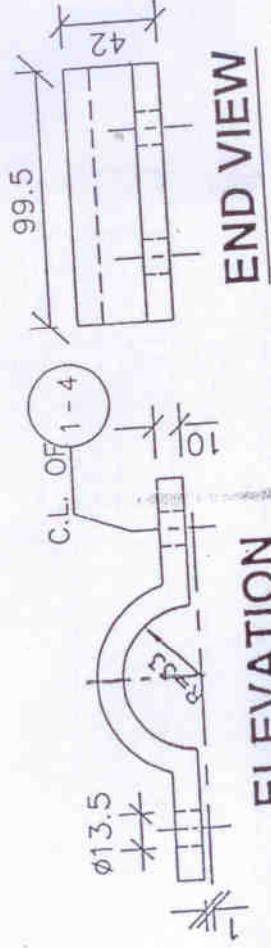
PIN

MATL :- X04Cr19Ni9 OF
IS: 1570 (PART - V)

Quantity - 12 (Twelve) Nos.

Pujariyanda LHR/RHR,
Boranga'sore LHR/RHR,
Jundhigore LHR/RHR,
Kestagan LHR
MIP

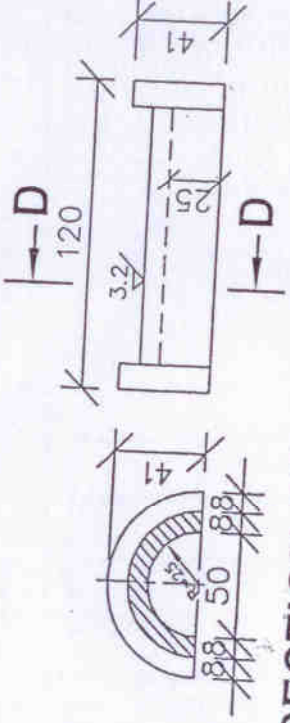
Answer - 81



Material - Chr. Steel
Quantity - 06 (SIX) nos

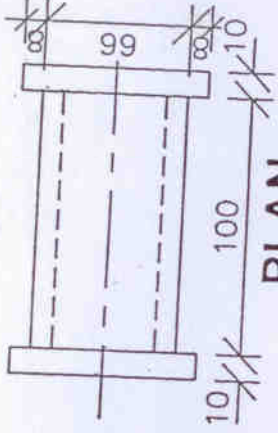
Boringi Jore RHR Tananjore RHR
Kotagam uR

Assignment - XII



SECTION-DD

ELEVATION



PLAN

SPLIT BUSH

1-3

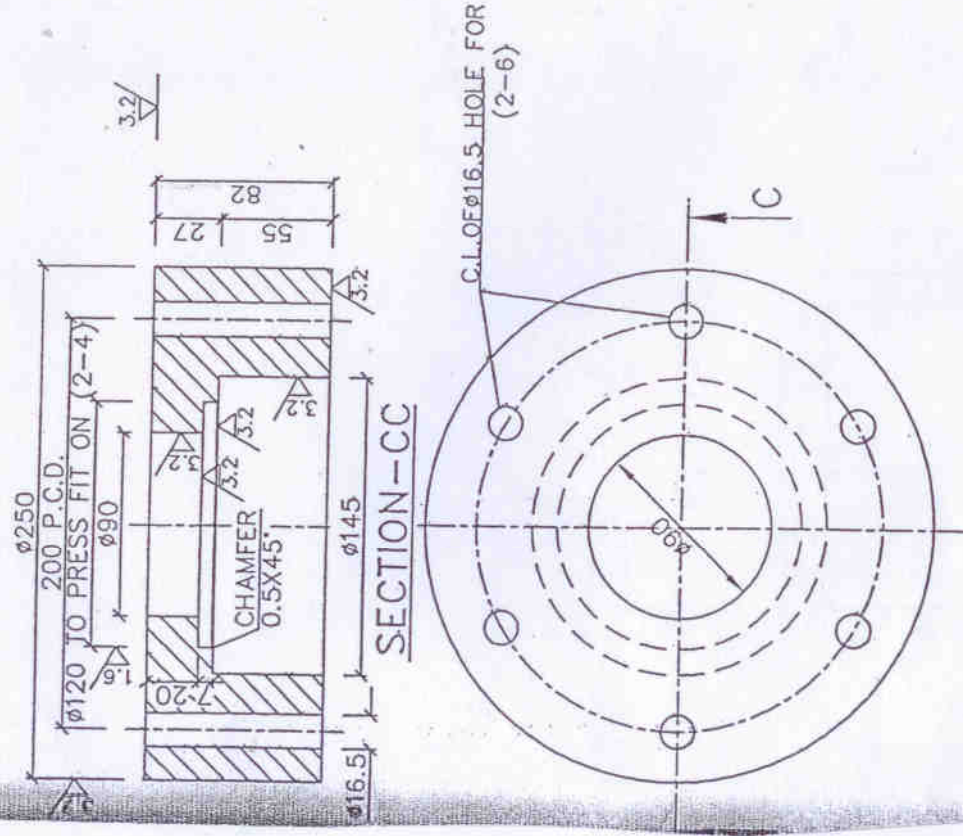
MATERIAL - LTB-1 OF IS:318

Quantity - 96 (SIX) NOS

Bengaluru RHR, Tumkur RHR
Kotagam LHR

Bonnager'sore RTH, Jananijore RTH
Katagann LTH

Approved - XIV



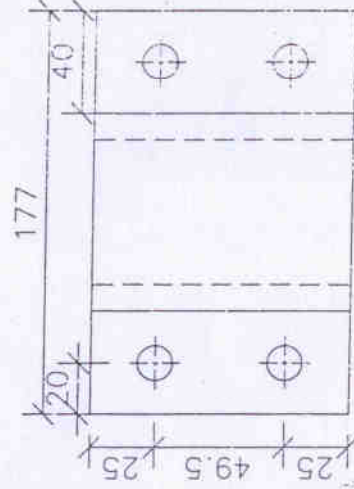
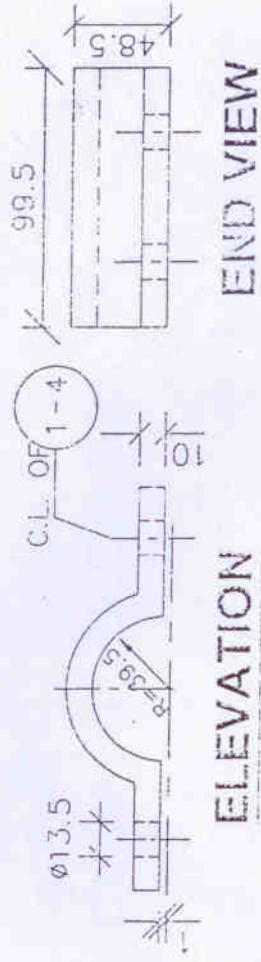
NUT RETAINER (2-3)

MATERIAL - CAST STEEL
GR.340-570W OF IS:1030

Qty-03 nos

Banarajane RHR Tawarjane RHR
Kotagam RHR

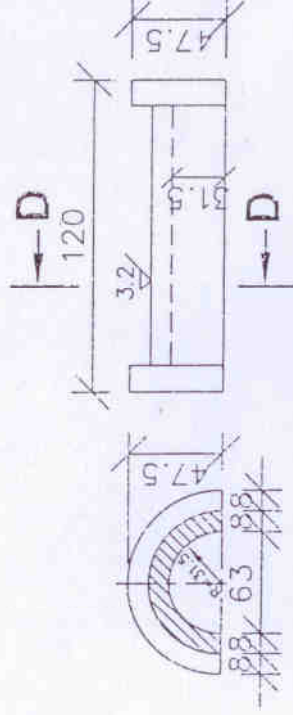
Appendix - XV



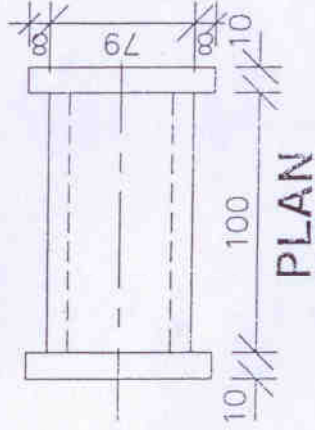
BUSHING CLAMP 1-2

Quantity - 12 (Twelve) nos

Pujanigunda LHR/ RHR, Bhangijore LHR
 Tuvaniore LHR/ Wadivajore LHR
 Lukunalla RHR MIP



SECTION-DD ELEVATION



PLAN

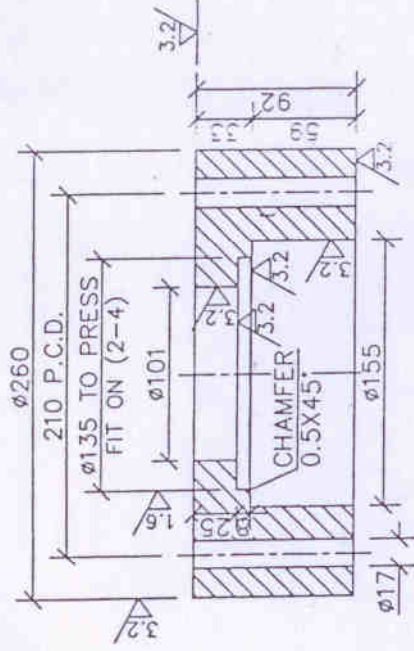
SPLIT BUSH (1-3)

MATERIAL - LTB-1 OF IS:318

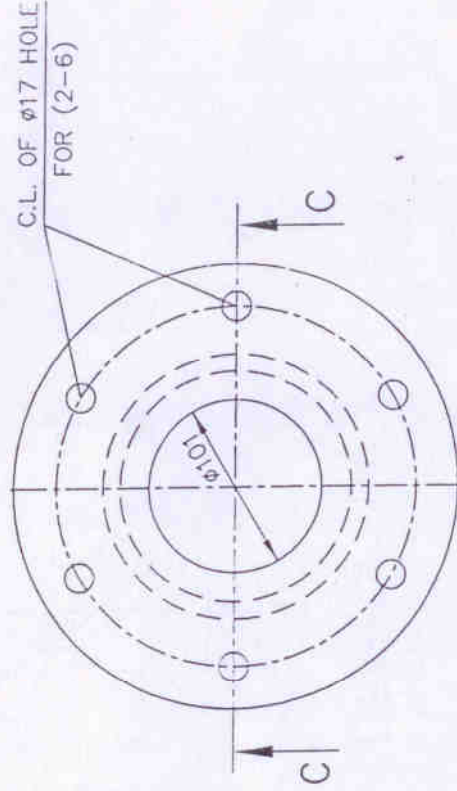
Quantity - 12 (Twelve) nos.

Pujariyada LHR/HR, Banarajore LHR,
 Tanarajore LHR/Nandirajore
 LHR
 Rukmanalla RHR M/P

11/11/2017



SECTION-CC



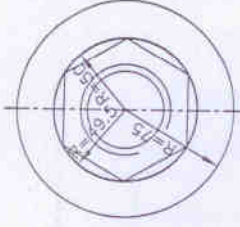
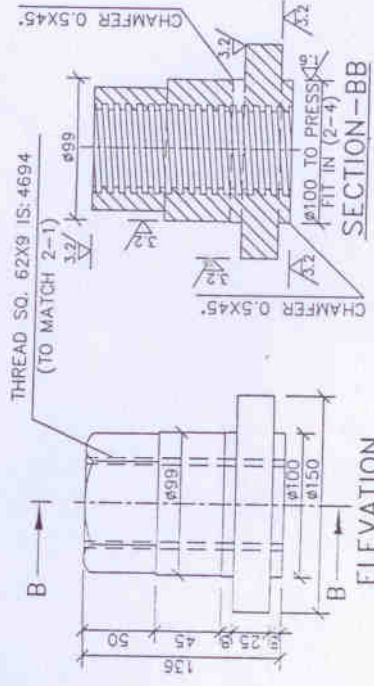
NUT RETAINER (2-3)

MATERIAL - CAST STEEL
GR.340-570W OF IS:1030

Quantity - 06 (50) NOS

Paikrigida LHR/HR, Bmangjone LHR,
Jenarigone LHR / Nandigjone
LHR
Rukunadaka LHR MIP

Appendix - XVIII



PLAN

NUT (2-2)

MATERIAL: CAST STEEL
GR. 340-570W OF IS: 1030-1989

Quantity - 06 (SIX) nos

Pugazhiguda LHR/HR,
Bongajore - LHR
Tanjore LHR / Nandivara
LHR
Sukmanalla RMR WIP