



ISO 9001 Company

Heavy Engineering Corporation Limited
(A Govt. of India Enterprise)
Heavy Machine Building Plant
Ancillary & Contract Department

Open Tender Notice

Tender No. ACD/HMB/20/SF/2143/OTE-6113 dtd 04.09.20 is available on our website in e-procurement section i.e. <https://etenders.gov.in/e procure/app>. Aspiring bidders may go through the tender document.

Interested bidders are requested to submit their most competitive offer through e-procurement mode only. Offer submitted through offline mode will not be considered. For more information please visit our website <https://etenders.gov.in/e procure/app>.

Bid submission closing date	24.09.20	01:00 PM
Technical Bid opening date	25.09.20	03:00 PM

Prospective Tenderers are advised to get register themselves only on at NIC e-tender portal i.e. <https://etenders.gov.in/e procure/app>, obtain 'User ID' & 'Password' and go through the 'Self Help files' available in the Home Page after log in to the portal <http://etenders.gov.in>. They should also obtain Class III Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. Detailed instructions for online bid submission are attached in **annexure-5**. No registration fee would be charged from the bidders.

Bidders are required to upload the bid along with all supporting documents including priced part (BoQ) only on the e-tendering website (<https://etenders.gov.in/e procure/app>), on or before the due date and time for submission of bid.

NOTE:

- 1. Any Future changes/notifications including extension of bid due date, pertaining to this tender will be published/hosted only on website & CPP Portal only.**



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Submission of tender

The Following 2 covers shall be submitted through online CPP - portal by the bidders. Last date and time of submission of bids (cover 1, 2) is as per given dates.

Cover – I: - Containing techno-commercial bid

Cover – I containing

- i. Duly Filled Annexure-1
- ii. Ref. and PO as per Annexure 1, Sl. 2
- iii. Facilities available at your works for the same work/similar work as per Annexure 1, Sl. 3
- iv. All other documents as per Annexure 1 and Self Declaration as per Annexure 3

Cover - II: Price Bid (BoQ)

a) The tenderer shall upload the digitally signed Schedule of price bid in the form of BOQ.xls

Bidders may please note, the schedule of quantities is attached in the portal. The same (BOQ) shall be downloaded and be filled in the editable (un protected) cells only and they should necessarily submit their financial bids in the format provided after entering the financial quotes, name of the bidder etc.

Bid Opening Process is as below:-

Cover-I: Technical bid opening date will be as per given dates. If any clarification is needed from the bidder about the deficiency in his uploaded documents in Cover-I, he will be asked to provide it through Short fall documents folder in e-tendering portal one time only or through mail. The bidder shall upload the requisite clarification / documents within time specified by HEC, failing which tender will be liable for rejection.

Cover-II: The financial bids of the contractors / firms found to be meeting the qualifying requirements and technical criteria shall be intimated through portal. (Depending on Cover-I evaluation any changes in the date shall be intimated through e-tendering portal).



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No. ACD/HMB/20/SF/2143/OTE-6113

Dtd 04.09.20

HEC intends to procure the following Steel Forging Items. Interested firms are requested to submit their most competitive offer for supply of following items as per the technical instructions and the terms & conditions given below.

(A) Scope of Supply:

Sl. No.	Drg.No.	Desc.	Qty in Set	Wt/Set in Kg	Material Grade
1	3335.40.501 3333.80.603	Hook 5T Hook Nut	1	23.00	20C15, IS:4367-91 45C8, IS:2004-91
2	3335.20.501 3335.20.503	Hook 10T Hook Nut	1	70.60	20C15, IS:4367-91 45C8, IS:2004-91
3	3291.01.601 3291.01.621	Hook 20T Hook Nut	1	135.00	20C15, IS:4367-91 45C8, IS:2004-91
4	3327.60.601 3327.60.615	Hook 20T Hook Nut	1	115.60	20C15, IS:4367-91 45C8, IS:2004-91
5	3335.40.401 3335.40.402	Hook 30T Hook Nut	1	265.00	20C15, IS:4367-91 45C8, IS:2004-91
6	3715.34.401 3715.34.402	Hook 50T Hook Nut	1	451.00	20C15, IS:4367-91 45C8, IS:2004-91
7	H483-13-418A	Cam	2	30.00	St 20X IS:1576-61

(B) Technical Instructions:

1. Items are to be supplied as per drawings and its technical instructions.
2. Items have to be supplied with Ultrasonic Quality (conforming to Standards) in case it is mentioned in the HEC drawings.

The supplier has to give identification mark (to be indicated afterwards) on each item.



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Terms & conditions

1. The rate quoted shall be Inclusive of all packing & forwarding, Freight charges & insurance on F.O.R HMBP Stores.
2. The Price quoted by the tenderer should be exclusive of GST. The rate and nature of GST applicable should be shown separately. GST will be paid to the seller at the rate at which it is liable to be assessed or has actually been assessed on the date of supply provided the transaction of sale is legally liable to GST and within the delivery period.
3. **Validity of offer** - The rates quoted must be firm and the offer made must remain valid for acceptance up to **three months** from the date of opening of the tender. The rate quoted must be in word and figure as well. In case any discrepancy in rate given in figures and word, the rate given in words will prevail.
4. **Payment terms:** 90% payment along with 100% taxes and duties within two months of receipt of material in HMBP and 10% against C.R.V (to be issue by our Stores after receipt and acceptance of material at HMBP). In case of any deviation by the bidders necessary loading @ 1% Per Month (12% max Per Year) on quoted price shall be applicable and L-1 firm will be decided based on landed cost after loading on quoted price.
5. **Delivery Schedule –within 60 days from the date of issue of PO.** In case the delivery schedule is not acceptable to any bidder, the Price bid of the bidder may not be opened for the said Enquiry.
6. Full particular i.e. specification, literature and or drawing wherever applicable should be submitted along with the quotation.
7. The Corporation does not pledge itself to accept the lowest or any tender and reserve to itself the right of accepting the whole or any part of tender or portion of the quantity offered and you shall supply the same at the rate quoted.
8. Inspection of the manufactured items will be done by QCA/HMBP or his authorized representative at supplier's works, Necessary tools and measuring instruments to be provided by the supplier.
9. Corporation reserves the right to call for and examine at any time the books of accounts and other document and papers of the firm for the purpose of ascertaining whether any excess payment has been made or the firm likely to be received / received undue benefit out of execution of the particular contract.
10. Earnest Money Deposit –Not Applicable
11. **Tender Fee –Rs 200/-** will have to be deposited by demand draft on any of the nationalized banks in favor of "Heavy Engineering Corporation Limited, payable at Ranchi. The copy of Tender Fee in form of DD will have to enclose in the Techno-Commercial bid (Part 1) and the original copy of the same has to reach before opening date of tender. Exemption of Tender Fee shall be applicable on submission of valid SSI/NSIC/MSME certificate and as per Govt rules. SSI/NSIC/MSME Certificate to be enclosed in Techno Commercial Bid Part 1.



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12. **Security deposit (SD)** – Successful tenderers will have to deposit security equal to 5 % of the value of the contract within the desired period i.e. within 21 days of PO date. Failing this, the contract will be cancelled at the risk and expenses of the suppliers. SD will have to be deposited by demand draft on any of the nationalized banks in favor of “Heavy Engineering Corporation Limited, payable at Ranchi” or in the form of Bank Guarantee.
13. Delivery : The time for and the date of delivery of the Stores stipulated in the acceptance of tender shall be deemed to be the essence of the Contract and delivery must be completed not later than the dates specified therein. Otherwise:
 - a. The purchaser to recover from the Contractor a sum of 0.5% per week (Completed week) of the price of the Stores (upto maximum 10%) as liquidated damages, which the contractor has failed to deliver as aforesaid or
 - b. The purchaser may procure the undelivered stores/ similar items from elsewhere, without notice to the contractor at the risk of the contractor without canceling the contract in respect of the consignment not yet due for delivery or
 - c. To cancel the contract or a portion thereof.
14. There is no obligation on our part to accept delayed / late tenders. Tenders received after the due date of opening are liable to be summarily rejected.
15. The rates quoted shall also be inclusive of embossing on the material. The ownership namely HMBP should be at a predominant place of the material to a size/ thickness upon the volume of the material.
16. The corporation reserves the right to reject any / all tender partly / fully and no tenderer can ask any explanation anywhere in this regard.
17. Successful Bidders have to sign the confidentiality agreement in HEC’s format.
18. **Guarantee clause-** The items supplied shall be guaranteed for a period of 12 months from the date of commissioning or 18 months from the date of its delivery whichever is earlier against defective materials or bad workmanship
19. The repeat order for 100% quantity may be placed on successful bidder/bidders within one year from the date of delivery of the original Purchase Order on mutual agreement.
20. Order placed as a result of this tender will be governed by the Corporation’s General Terms and Conditions of Contract which can be referred in HEC’s website www.hecltd.com

Note:-

1. As per the govt. Guidelines it is to be specified clearly in your offer whether your firm is registered with SSI/NSIC/MSME and also confirm whether the firm is owned by SC/ST Entrepreneurs or not.
2. Pl. provide UAM no to avail Facilities of MSME.
3. Please get registered your firm with HEC Ltd.

(S.K.Singh)
DGM/ACD/HMBP
FOR AND ON BEHALF OF HEC Ltd.



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Annexure – 1

PART – I (Techno - Commercial Bid)

No. ACD/HMB/20/SF/2143/OTE-6113

Dtd 04.09.20

Sl.No.	Requisite		Remark
1	Whether the (A) scope of Supply & (B) technical instruction mentioned in the tender enquiry is acceptable.	Yes / No	
2	Reference & Photocopies of Major PO's placed on you by HEC /Other companies for same/similar items.	Yes / No	(Upload the relevant documents)
3	Duly Self Attested copies of Forging Facilities available at your works for the same work/similar work. In case you don't have own facility for forging, PI provide the tie up letter & Credential of tie up from where the forging will be procured.	Yes / No	(Upload the relevant documents)
4	Whether SSI/NSIC/MSME (For exemption of Tender Fee only), Also mention UAN No.....	Yes / No	(Upload the relevant documents)
5	Whether Tender Fee deposited (As per clause 11 of Terms & Conditions)	Yes / No	(Upload the copy of DD)
6	F.O.R. HMBP (As per clause 1 of Terms & condition)	Yes / No	
7	Payment Term(As per clause 4 of Terms & condition)	Yes / No	(In case your answer is No, then please mention your term)
8	Delivery Term(As per clause 5 of Terms & condition)	Yes / No	(In case your answer is No, then please mention your term)
9	Validity (As per clause 3 of Terms & conditions)	Yes / No	
10	L.D. Clause(As per clause 13(a) of Terms & conditions)	Yes / No	
11	Risk Purchase Clause (As per clause 13(b) of Terms & conditions)	Yes / No	
12	Guarantee Clause (As per clause 18 of Terms & onditions)	Yes / No	
13	Security Deposit (As per clause 12 of Terms & conditions)	Yes / No	
14	GST Registered	Yes / No	GST rate.....
15	Inspection (As per clause 8 of Terms & conditions)	Yes / No	
16	Firm is owned by SC/ST Entrepreneurs	Yes / No	
17	Whether Terms & Condition/Note etc. mentioned in the tender enquiry is acceptable to the tenderer	Yes / No	
18	Contact person Name: Email: Contact number:		

Note : In case of non-submission / submission of incomplete documents, your offer may not be considered for the said Enquiry.

(Signature of Tenderer)

With official Seal



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Annexure – 2

PART-II (Price Bid)

The tenderer shall upload the digitally signed Schedule of price bid in the form of BOQ.xls

Bidders may please note, the schedule of quantities is attached in the portal. The same (BOQ) shall be downloaded and be filled in the editable (unprotected) cells only and they should necessarily submit their financial bids in the format provided after entering the financial quotes, name of the bidder etc.



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Annexure – 3

No. ACD/HMB/20/SF/2143/OTE-6113

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Self-Declaration

I _____, Son / Daughter of
Shri _____ age _____ years, resident of
_____ in the District of _____, do hereby
declare that all the information given in the offer and in the enclosed documents is true
to the best of my knowledge and belief and nothing has been concealed therein. I am
well aware of the fact that if the information given by me is proved false / not true at
any point of time, I will have to face punishment as per any provision of Law for the time
being in force as well as the benefit availed of by me or the benefit accrued to me shall
be summarily cancelled.

Date: -

(Signature of Tenderer)
With official Seal



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Annexure 4

Format for BANK GUARANTEE FOR SECURITY DEPOSIT

(to be issued by any Nationalized bank preferably State bank of India negotiable at their counters in Ranchi)

TO,

M/S HEAVY ENGINEERING CORPORATION LIMITED
PLANT PLAZA ROAD,
DHURWA,
RANCHI – 4

Dear sir,

In consideration of your agreeing to accept the security deposit of rs.'amount'..... furnishable to you by m/s 'firms name'..... (hereinafter referred to as contractor) in terms of the contract no.'hec's purchase order no'.....for supply of 'details of items'.....(hereinafter referred to as the 'contract') in the form of a bank guarantee in the manner hereinafter contained we.....'bank details'..... branch, having registered office at 'place'..... do hereby covenant and agree with you as follows:

1. We hereby undertake to indemnify you up to a sum of rs.'amount'.....(rupees 'amount in words'.....) against any loss or damage caused to or suffered by you or that may caused to or suffered by you by reason of any breach or breaches on the part of the contractor of any of the terms and conditions contained in the said contract and in the event the contractor shall make any default or defaults in carrying out any of the works under the said contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and



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meaning thereof, we shall forthwith on demand and without any protest or demur pay to you such sum or sums not exceeding in total the said sum of rs.'amount'.....(rupees 'amount in words'.....) as may be claimed by you as your losses and / or damages, costs, charges or expenses by reason of such default or defaults on the part of the contractor.

2. Notwithstanding anything to the contrary contained in this guarantee your decision as to whether the contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims or damages or losses suffered by you but will pay the amount demanded by you under this guarantee forthwith on your demand without any protest or demur.
3. This guarantee shall continue and hold good until it is released by you on the application by the contractor after expiry of the related warranty period of the said contract and after the contractor have discharged all their obligations under the said contract and produced a certificate of due completion of the work under the said contract and submitted a 'no demand certificate' provided always that this guarantee shall in no event remain in force after the date of ...'date'..... without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.
4. We 'bank name', further undertake to extend the validity of this beyond the period prescribed in clause 3 or as extended from time to time, for such further period as may be required in writing before the expiry of this and upon such extension(s), all terms and conditions of this shall remain in full force till the expiry of this extended period(s).
5. You will have the fullest liberty without affecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the contractor or to postpone for any time or from time to time any of your rights or powers against the



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contractor and either to enforce or forebear to enforce any of the terms and conditions of the said contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the contractor or any other forbearance, act or omission on your part or any indulgence by you to the contractor or by any other variation or modification of the said contract or any other act, matter or things whatsoever, which, under the law relating to sureties, would but for the provisions hereof, have the effect or so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of rs.'amount'.....(rupees 'amount in words'.....) as aforesaid or extend the period of the guarantee beyond the said date of ...'date'.... unless expressly agreed to by us in writing in terms of clause 4 hereof.

6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the contractor or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be of the contractor.
7. In order to give full effect to the guarantee herein contained, you shall be entitled to act as if we are your principal debtors in respect of all your claims against the contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of suretyship and other rights, if any, which are in any way inconsistent with any of the provisions of this guarantee.
8. Subject to the maximum limit of our liability as aforesaid this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.
9. Any notice by way of demand or otherwise hereunder shall be in writing and may be sent by special courier, speed post or telefax to us at our local address as aforesaid.



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10. This guarantee and the powers & provisions herein contained are in addition to and not by way of limitation of or substitution for any other guarantee or guarantees heretofore given to you by us whether jointly with others or alone and now existing uncanceled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.
11. This guarantee shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure for the benefit of and be available to and enforceable by the absorbing or amalgamated company or concern.
12. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.
13. We further agree and undertake to pay you the amount demanded by you in writing irrespective of any dispute or controversy between you and the contractor or any reference to arbitration of the said dispute / controversy pending or a civil suit filed by the contractor in respect of the dispute or controversy.
14. Notwithstanding anything contained herein above our liability under this guarantee is restricted to rs.'amount'.....(rupees 'amount in words'.....) and this guarantee shall remain in force until 'date'.... unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry of this guarantee i.e. on or before ...'date' + '6 month'..... all your rights under this guarantee shall be forfeited and we shall be deemed to have released and discharged from all liabilities thereunder. irrespective of whether or not the original guarantee is returned to us.
15. We have power to issue this guarantee in your favour under the memorandum and articles of association of the bank and the undersigned has full power to execute this guarantee under the power of attorney granted to them by the bank.

FOR AND ON BEHALF OF
'name of bank'



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'signature with seal'

Annexure-5
Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- (ii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (iii) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- (iv) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- (v) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- (vi) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- i) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of



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search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

- ii) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- iii) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- i) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- ii) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- iii) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- iv) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.



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SUBMISSION OF BIDS

- i) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- ii) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- iii) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- iv) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by as specified in the tender documents. The details of the DD / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- v) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- vi) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- vii) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender



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documents become readable only after the tender opening by the authorized bid openers.

- viii) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- ix) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- x) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 **CPP Portal** Helpdesk.

Note: For any query related to registration and processing on the Portal please visit

FAQ available at

<https://etenders.gov.in/eprocure/app?page=FAQFrontEnd&service=page>

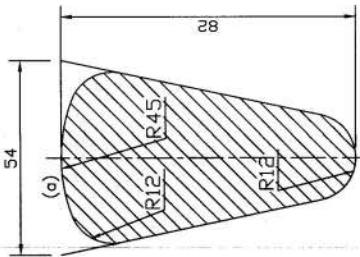
You may call the Helpdesk. The 24 x 7 Help Desk Numbers are
0120-4200462, 0120-4001002, 0120-4001005, 0120-6277787
E-Mail: support-eproc@nic.in

Or

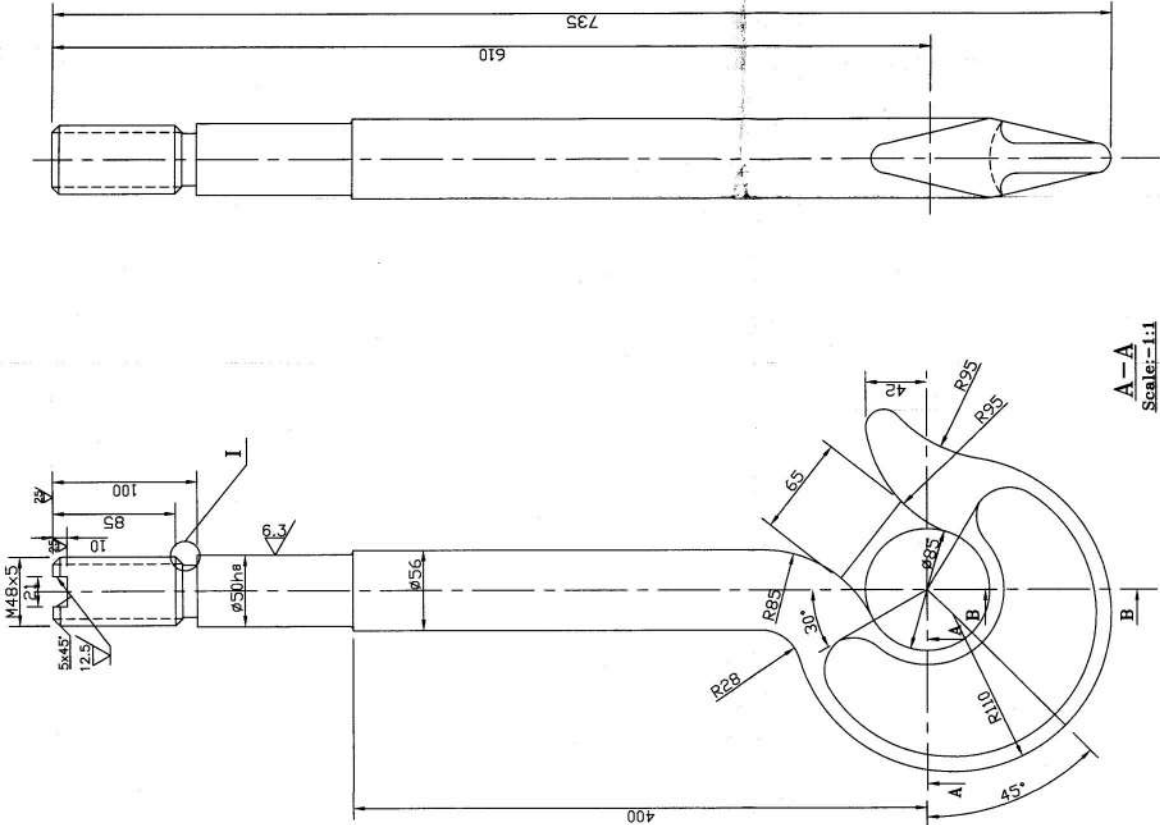
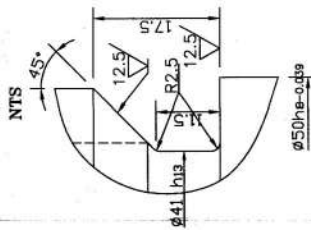
You may call to our service provider, Mr.Kushal (7903884318)
E-Mail: kushalniccl@gmail.com

3335.40.501

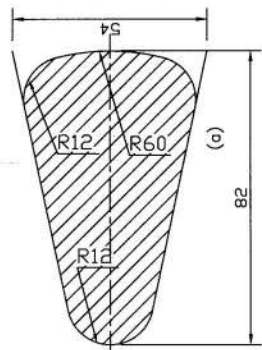
B-B
Scale:-1:1



Detail - I



A-A
Scale:-1:1



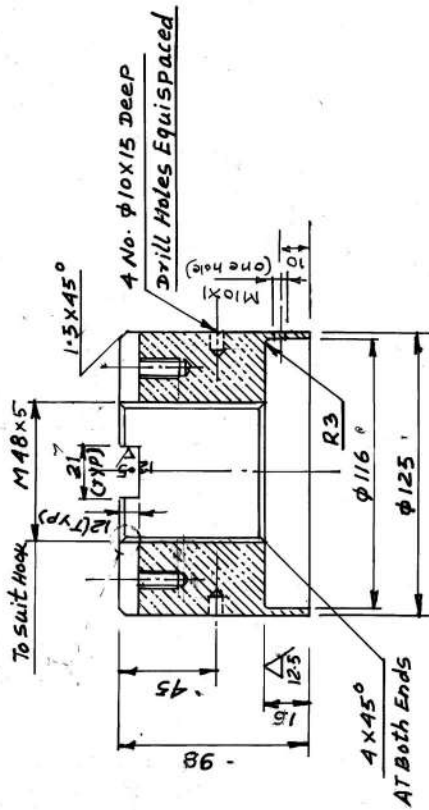
Technical Instructions

1. The surface of the hook must be clean of projected edges, blisters sharp edges. Cracks and under cuts on the machined shank of the hook are not allowed, cleaning of defects with out affecting the strength of the hook may be done. Welding or building up of defects of the hook are not allowed.
2. The hook to be tested as per IS:3815-69 to proof load of 12.6T of the inspection deptt.
3. The hook must carry mark of the plant, capacity and the stamp
4. Material to be tested as per IPSS 1-08.004 for hook.
5. Machining of slot 2:1H11 (12.5/45) to be done together with hook nut drg. no.-3333.80.603
6. Forging should be of ultrasonic quality conforming to FFP standard FFS-235.

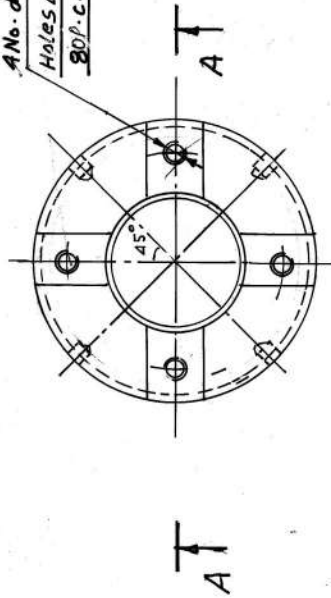
	5T Hook		3335.40.501			
	BUREAU-CHIEF Dr. M. Jha		20 C15			
	GROUP LEADER S.N.L. Gupta		MATERIAL- IS:4387-91			
	DESIGNER Sushant		SCALE-1:2.5 WEIGHT IN KG- 16.00			
DRAWN BY Sushant		H.M.B.		June 11		
REF. ENCL.		HEC L.T.D. RANCHI		Rev-072		
CATEGORY OF DRAWING		APPROVAL	INFORMATION	REFERENCE	RECORD	CONSTRUCTION
		DURGAPUR STEEL PLANT, DURGAPUR, WEST BENGAL MODERNISATION & EXPANSION (PHASE-I)				
		CONSULTANT MECON LIMITED				
		CONTRACTOR HEAVY ENGINEERING CORPORATION LTD RANCHI				
DRAWN		Sushant		TITLE OF DRG.		
DESIGN		Sushant		5T Hook		
CHKD		S.N.L. Gupta		20/5Tx18.5M EOT Crane: Transfer Bay		
APVD		Dr. Jha		SCALE-1:2.5		
INDEX NO.		DESCRIPTION		CONTRACTOR'S DRG. NO.- 3335.40.501		
REV		SIGNATURE		DATE		
1				8/10/11		
PROJECT DWG. NO.		DSP/HEC/10/01/55/MSM-03/DE.40501				

3333.80.603

25/ The rest




Ano. dt. M 10x20 Deep
Holes Equispaced on
80° C.D.



Technical Instructions

1. Material to be tested as per Group III c/s 32 (Table II IM 3300).
2. Machining of 21H₁₁ to be done together with Hook drg. no.

 एच.ई.सी.	विभागाध्यक्ष	H.N. Sah	प्रधान	3333.80.603
	प्रशाका प्रमुख	Dr. M. Jha	एच.एच.बी., रांची	Material :- 45C8 T.C. 2004-91
	युव लीडर	R.J. Pd.	वित्त. नि. नि. :- 7.00	March '10
	डिजाइनर	S. Pd.	HMB	REV-0
	संरचना प्रबंधक	S.S.P. Singh		

Hook Nut

Co-ordinated by :-

PROCESS.....	(NAME)	(SIGN)
WELDING.....		
TECH.....	(NAME)	(SIGN)

Index	No.	Revision	Signature	Date

5 33-3-14779 6

4

3

2

1

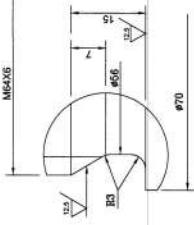
Technical Instructions

- Forging should be of ultrasonic quality as per FFS-235.
- The Hook shall have a total min. reduction in area of 80% if forged out of ingots or a total minimum reduction in area of 50% if forged out of blooms.
- The hook shall be free from all defects. Elimination of defects by welding or any other method shall not be allowed.
- Mechanical properties of the steel shall be as given below
 - Ultimate tensile strength (σt) 60-70kg/mm²
 - Yield Stress (Min) 40kg/mm²
 - Elongation (Min) 18%
- Testing

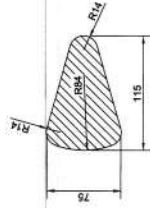
In addition to all tests specified in IS:3815-69 the following tests and examinations shall also be conducted for each hook:

 - Visual inspection.
 - Checking the dimensions of machined portion of the hooks and its shank.
 - Determination of the physical properties of the hook metal.
 - Test for hardness and
 - Die penetration test on every forging for detection of cracks.
 - Sharp corners are to be rounded off.
 - Remaining technical conditions should be as per IPSS-1-08-004-94.

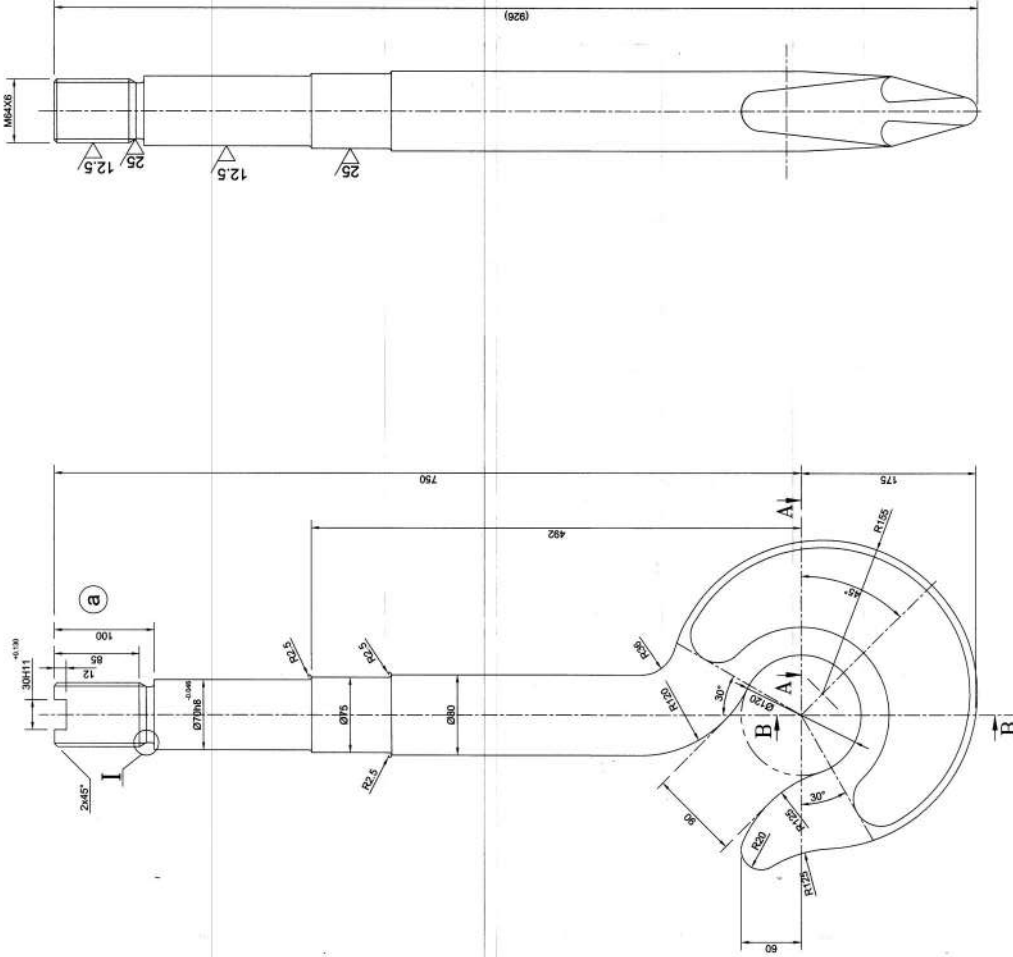
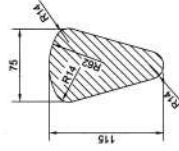
View-I
Scale-2:1



SectionA-A



SectionB-B



NO.	DESCRIPTION	REVISION	DATE
1	MECON'S Comment Incorporated	1	05/07/12

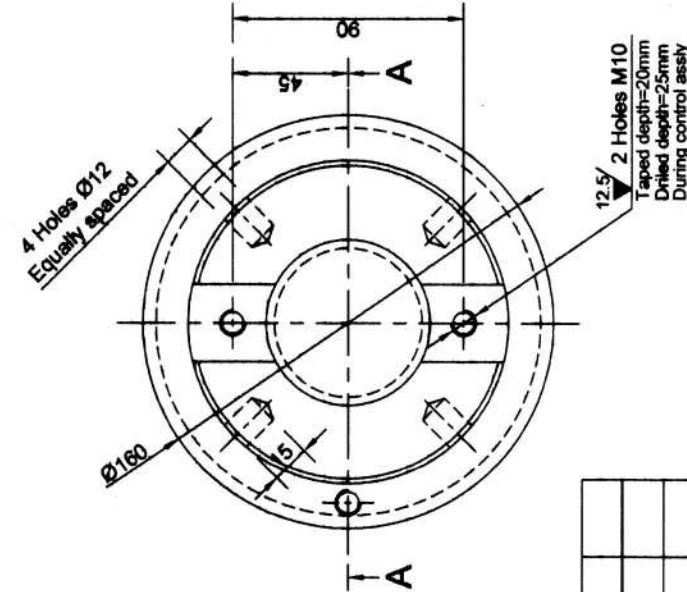
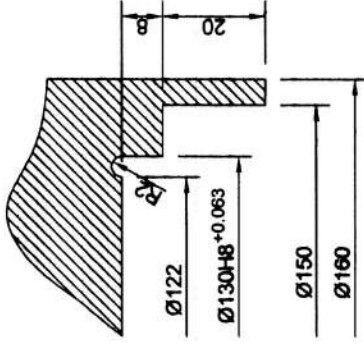
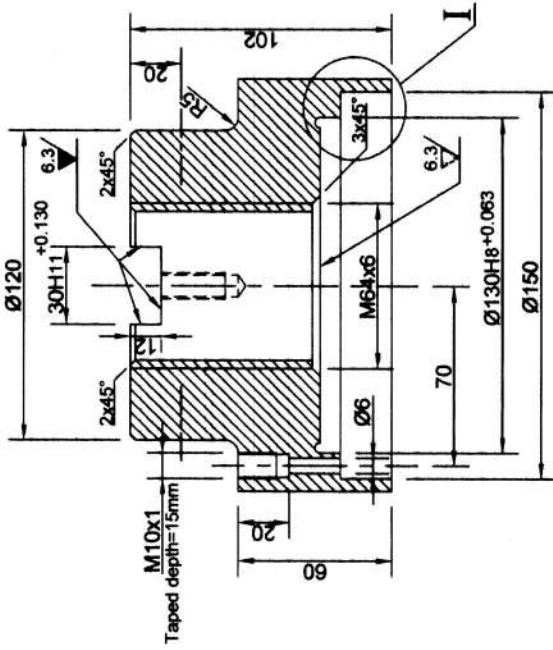
	TITLE OF DRG. 10T Hook	3335.20.501	MATERIAL: IS:2062 91	SCALE: 1:2.5 HEIGHT IN MM: 65.00	DESIGNER: J.K.Sinha	CHECKED: S.N.L.Gupta	DRAWN: S.N.L.Gupta	DATE: Dec-2011	REV: #/2
CATEGORY OF APPROVAL INFORMATION REFERENCE RECORD CONSTRUCTION DRAWING									
	DURGAPUR STEEL PLANT, DURGAPUR, WEST BENGAL MODERNISATION & EXPANSION (PHASE-I)			CONSULTANT					
MECON LIMITED									
CONTRACTOR									
HEAVY ENGINEERING CORPORATION LTD RANCHI									
DRAWN Prem									
DESIGN Sushant									
CHKD S.N.L.Gupta									
PROJECT TITLE OF DRG. 60/10x15.5M EOT Crane: (Roll Shop Bay)									
SCALE: 1:2.5									
APPROVED DATE									
CONTRACTOR'S DRG. NO. - 3335.20.501 #/2									
PROJECT DWG. NO. DSP/HEC/10/01/55/MSM-03/DE-20501									

3335.20.503

Section A-A

Detail-I
Scale 1:1

~~25~~ The rest



TECHNICAL INSTRUCTIONS

1. The hook nut surfaces must be clean. Projected edges, blisters, sharp edges, cracks, welding or building up of defects are not allowed.
2. Material of hook nut should be tested as per Grill, CIs 32 (IM-3200).
3. Machining of groove 30H11 ▼ to be done together with drg. no. 3327.30.601.

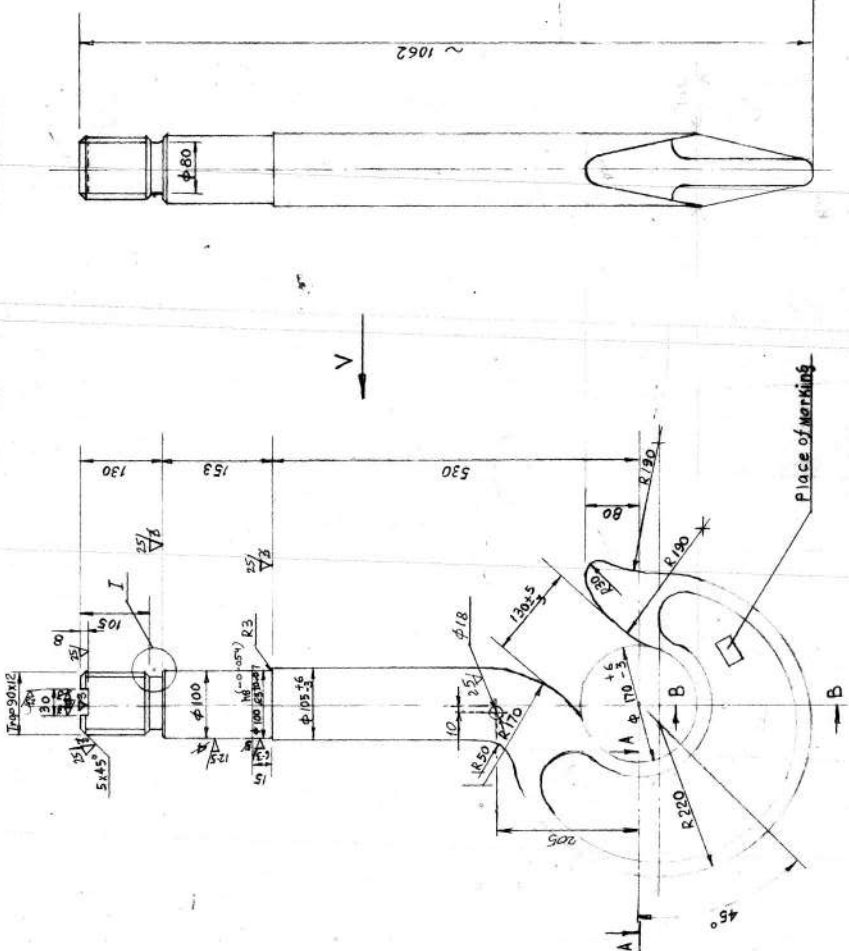
INDEX	NO.	DESCRIPTION	REVISION	SIGNATURE	DATE

	Hook Nut			3335.20.503	
	BUREAU-CHIEF GROUP LEADER DESIGNER DRAWN BY		D.K. Sinha S.N.L. Gupta S.N.L. Gupta Prem	SCALE: 1:2 H.M.B. HEC LTD., RANCHI	MATERIAL: 45 C8 IS:2004-91 WEIGHT IN KG: 7.60 Nov. 2011 Rev-0
REF. DRG. NO. 3335.20.500		REF. DRG. NO.			

33-3-5207

3291.01.601

View-V



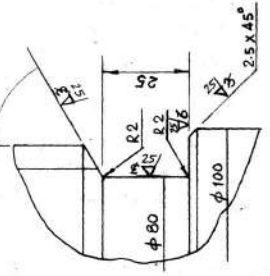
Technical Instruction:-

1. The surface of the hook must be clean; projected edges, blisters, sharp edges, cracks and undercuts on the machined shank of the hook are not allowed. Cleaning of defects without affecting the strength of the hook may be done. Welding or building of defects of the hook are not allowed. *Note: It is to be tested as per IS: 815-59 to a proof load of 4xL*
2. Each hook must with stand test for strength for a load of 25% more than the nominal load. *It is allowed to test the hook for strength along with testing of heat mechanism for which the hook is meant.*
3. The hook must carry the mark of the plant, capacity and stamp of inspection department.
4. Material of the hook should be tested as per Grade V of IS 25 of IS 2008.
5. Forging is to be 100% ultrasonic quality conforming to standard IS: 206-235.
6. The Hook in general shall conform to IS: 3815-59.
7. Hook shall be 100% radiographic quality / radiographic quality. *Confirmed to 100% ultrasonic quality / radiographic quality.*

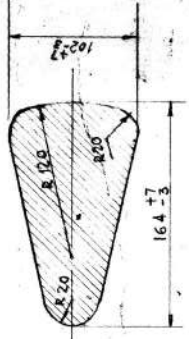
Traced by: *Y. S. J.*

to the rest

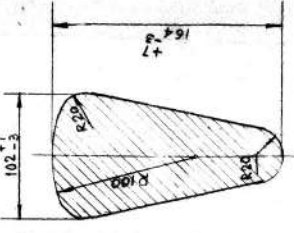
I Scale: 1:1



Section A-A
Scale 1:2.5



Section B-B
Scale 1:2.5



* 20C15
IS:4367-91
— 15-2004-01

CRANE
SD
16/3/99

HOOK 20T.

3291.01.601	
Scale: 1:1	Scale: 1:5
Prepared by: G. Govindaraj	Checked by: R. N. Srinivasan
Reviewed by: U. K. Srinivasan	Drawn by: U. K. Srinivasan
Approved by: A. N. Srinivasan	
3291.01.600	HMB
3291.01.601	3291.01.601

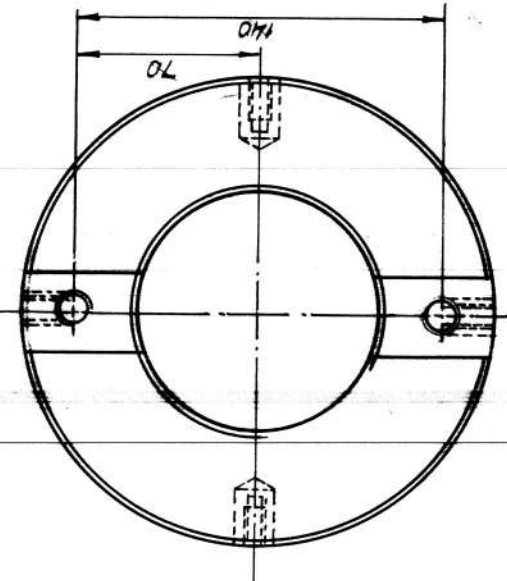
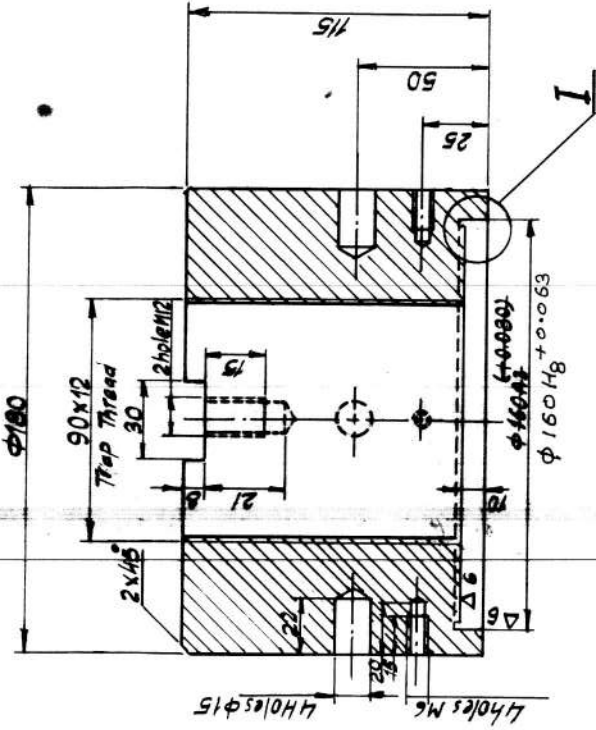
C 2	22-5-2008	20
3	18-5-2008	10
(1)	13-5-2008	13/27
Index No	Revision	Date

3291.01.621

Vs the rest

Technical Instructions

1. The hook nut surface must be clean; projected edges Blisters, Sharp edges, Cracks, Welding or Building in of defects are not allowed
2. Material of the hook Nut should be tested as per Gr. III C/S. 35 (IM 3300)
3. Forging is to be ultrasonic quality as per FFP Standard F-5 235.



I
Scale 2:1

REFINISHED

Bureau Chennai
Sigs & Dts
18-12-64

134
Ref-175 of
18-2004-31

HOOK NUT

3291.01.621

Material: IS-1510-64

Weight in kg. 20

HMB

K. B. C. LTD., BANGHI

July '68

Scale 1:2

Design Chief	C. G. Srinivasan
Design Engineer	R. N. Srinivasan
Designer	L. M. Prasad
Checked by	S. M. Prasad

Traced from original misshapen
1-5-75

3291.01.621
Ref. Des. No.

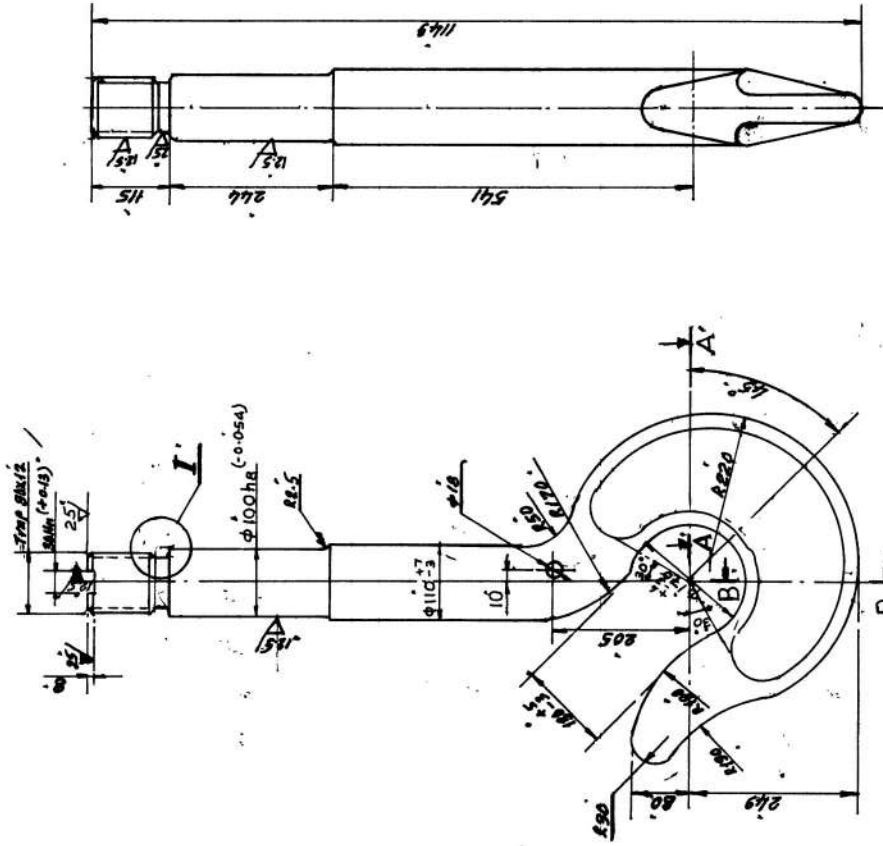
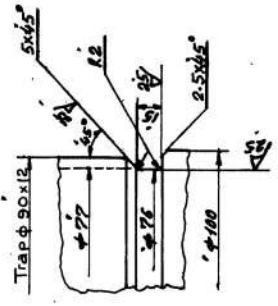
Index No.	Revision	Signature	Date

3327.60.601

to the rest.

Detail-I

Scale: 1:2

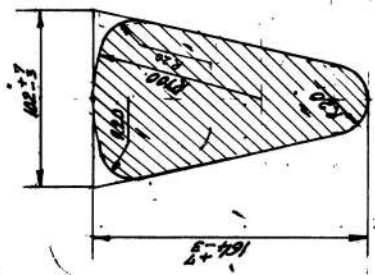


Technical Instructions.

1. The surface of the hook must be clean of projected edges, blister, sharp edges cracks and under cuts on the machined shank of the hook are not allowed. Cleaning of defects with out affecting the strength of the hook may be done. Welding or building up of defects of the hook are not allowed.
2. The hook must carry mark of the plant capacity and stamp of the inspection dept.
3. The hook to be tested as per IS: 3815.63 to a proof load of 457
4. Material is to be tested as per IPSS- 1-08.004 for each hook.
5. Machining of slot 30H^{12.5} (V and 25^V) to be done together with hook nut dry.no. 3327 60 615.
6. Smooth rotation of hook on the nut(3327 60 615) should be ensured.
7. Forging should be 100% ultrasonically tested.

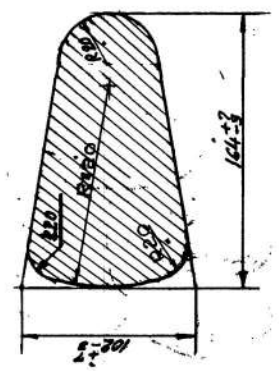
Section BB

Scale: 1:2



Section AA

Scale: 1:2



3327.60.601		HOOK 2Q1		3327.60.601	
MATERIAL: 20Cr15		SCALE: 1:5		WEIGHT IN KG: 95.0	
DESIGNER: E. N. SUDH		DRAWN BY: S. J. P.		DATE: Jan. 94	
CHECKED BY: S. J. P.		APPROVED BY: S. J. P.		REVISION: HMB	
REF. DES. NO.		FORM. CRD.		H. E. C. LTD. RANCHI	
REV. D		REV. D		REV. D	

NO.	REV.	DATE

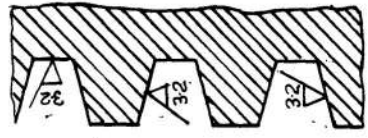
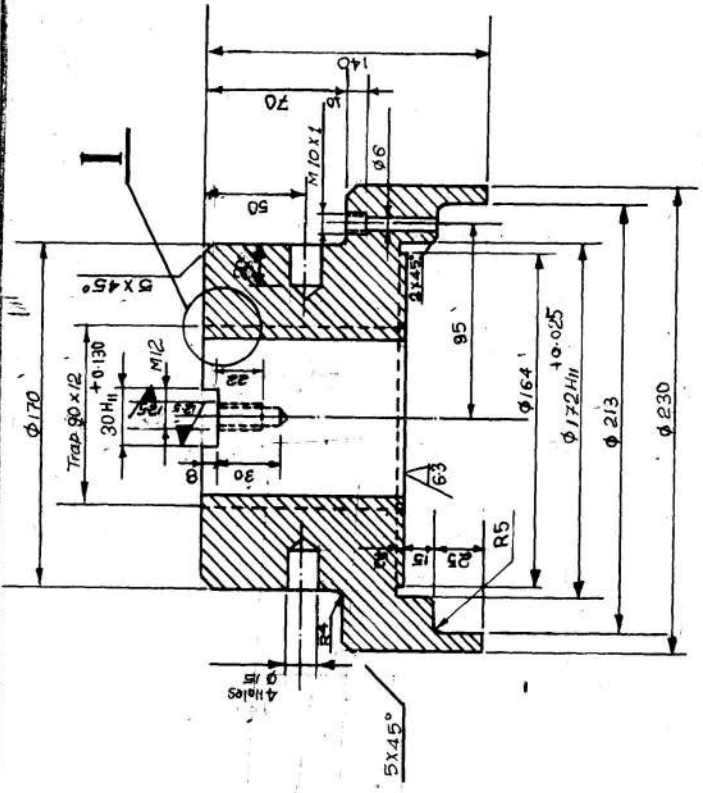
33-2-1084

33-2-1084

3327 60 615

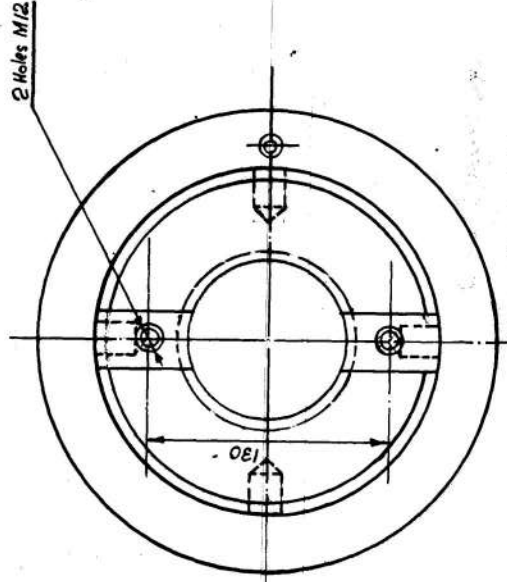
Detail-I
Scale: 2:1

25/ The rest



Technical Instructions

1. Material to be tested as per Group III c/s 32 (Table II, IM 3300)
2. Machining of 30 H₁₁ to be done together with hook dry No. 3327 60 615
3. Smooth rotation of Nut on the Hook (3327 60 601) thread to be ensured.
4. Forging should be 100% ultrasonically tested



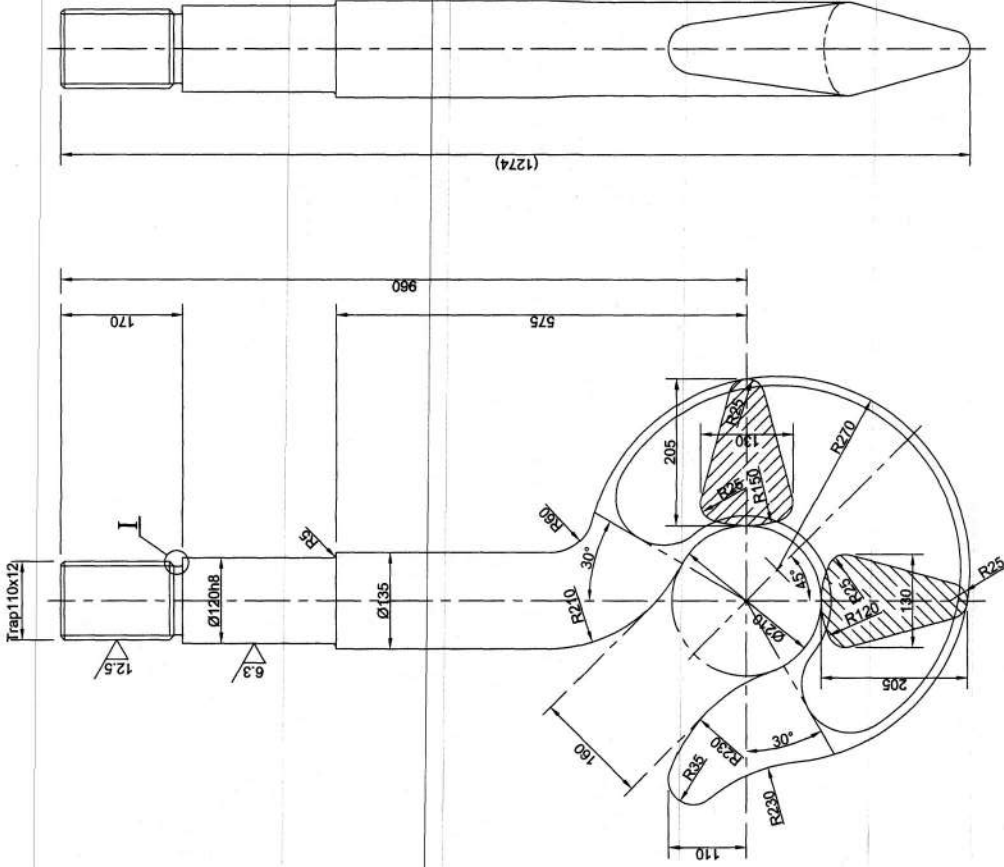
Co-ordinated by:-

Index	Revision	Signature	Date

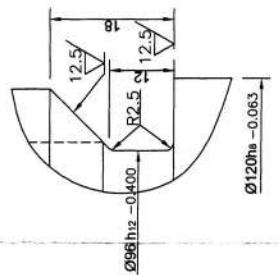
HOOK NUT		332760615	
Project No.	R. N. Sinha	Drawn by	R. J. Prabodh
Check by	B. Prabodh	Checked by	R. J. Prabodh
Material	3327 60 615	Material	3327 60 615
Part No.	3327 60 615	Part No.	3327 60 615
Scale	2:1	Scale	2:1
Author	R. N. Sinha	Author	R. N. Sinha
Checked	B. Prabodh	Checked	B. Prabodh
Approved	R. J. Prabodh	Approved	R. J. Prabodh
Date	JAN 34	Date	JAN 34
Drawn	R. J. Prabodh	Drawn	R. J. Prabodh
Checked	R. J. Prabodh	Checked	R. J. Prabodh
Approved	R. J. Prabodh	Approved	R. J. Prabodh

33-3-2675 33-3-2675

3335.40.401



Detail - I
NTS



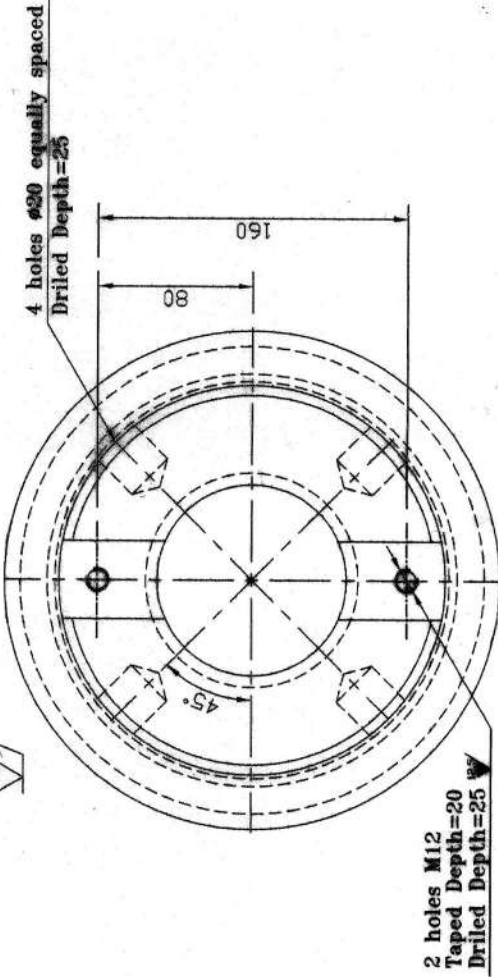
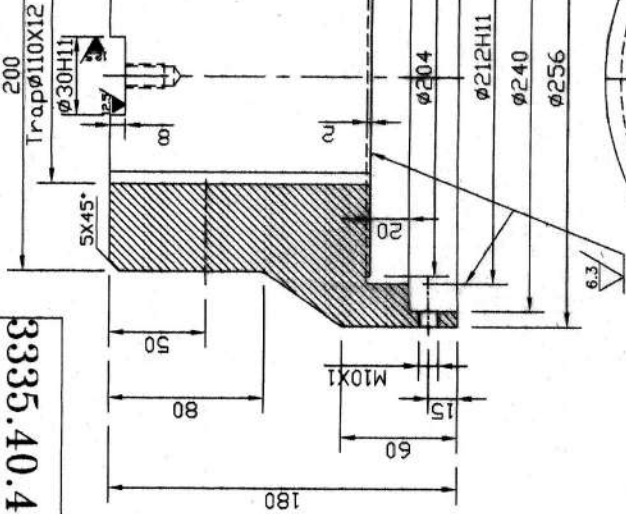
Technical Instructions

1. Forging should be of ultrasonic quality as per FFS-235.
2. The Hook shall have a total min. reduction in area of 80% if forged out of ingots or a total minimum reduction in area of 50% if forged out of blooms.
3. The hook shall be free from all defects. Elimination of defects by welding or any other method shall not be allowed.
4. Mechanical properties of the steel shall be as given below
 - a. Ultimate tensile strength (σ_t) 60-70kg/mm²
 - b. Yield Stress (Min) 40kg/mm²
 - c. Elongation (Min) 18%
5. Testing
 - a. Visual inspection.
 - b. Checking the dimensions of machined portion of the hooks and its shank.
 - c. Determination of the physical properties of the hook metal.
 - d. Test for hardness and
 - e. Die penetration test on every forging for detection of cracks.
6. Sharp corners are to be rounded off.
7. Remaninae-technical conditions should be as per IPSS-1-08-004-94.

		30T Hook		3335.40.401	
BUREAU-CHIEF	D. K. Sinha	SCALE	1:5	MATERIAL	20C15
GROUP LEADER	S.N.L. GUPTA	DESIGNER	Subant	IS:4387-81	WEIGHT IN KG. 235.00
DESIGNER	Subant	DRAWN BY	Prabh	H.M.B.	Nov.'2011
REF. DRG. NO.				HEC LTD., RANCHI	Rev-#1
				CATEGORY OF APPROVAL INFORMATION REFERENCE RECORD CONSTRUCTION	
DURGAPUR STEEL PLANT, DURGAPUR, WEST BENGAL MODERNISATION & EXPANSION (PHASE-I)					
CONSULTANT MECON LIMITED					
CONTRACTOR HEAVY ENGINEERING CORPORATION LTD RANCHI					
DRAWN	Prabh	TITLE OF DRG.		30T Hook	
DESIGN	Sushant	30/5Tx33.5M EOT Crane: (Mill Bay)			
CHKD	S.N.L.Gupta	SCALE-1:5		REV	
APVD	Dr. Jha	CONTRACTOR'S DRG. NO. - 3335.40.401		#1	
PROJECT DWG.NO. DSP/HEC/10/01/55/MSM-03/DE.40.401					

INDEX	NO.	DESCRIPTION	REVISION	SIGNATURE	DATE

3335.40.402



2 holes M12
Taped Depth=20
Drilled Depth=25

4 holes $\phi 20$ equally spaced
Drilled Depth=25

Technical Instructions

1. Material to be tested as per Group-III C/S32 of IM3300/Crane/RPD.
2. Machining of the slot 30H11 ∇ to be done together with the Hook (Drg. - 3284.01.401) during control assly.
3. Smooth rotation of nut on hook to be ensured.
4. Forging should be of Ultrasonic quality conforming to FFS-235.

∇ The rest

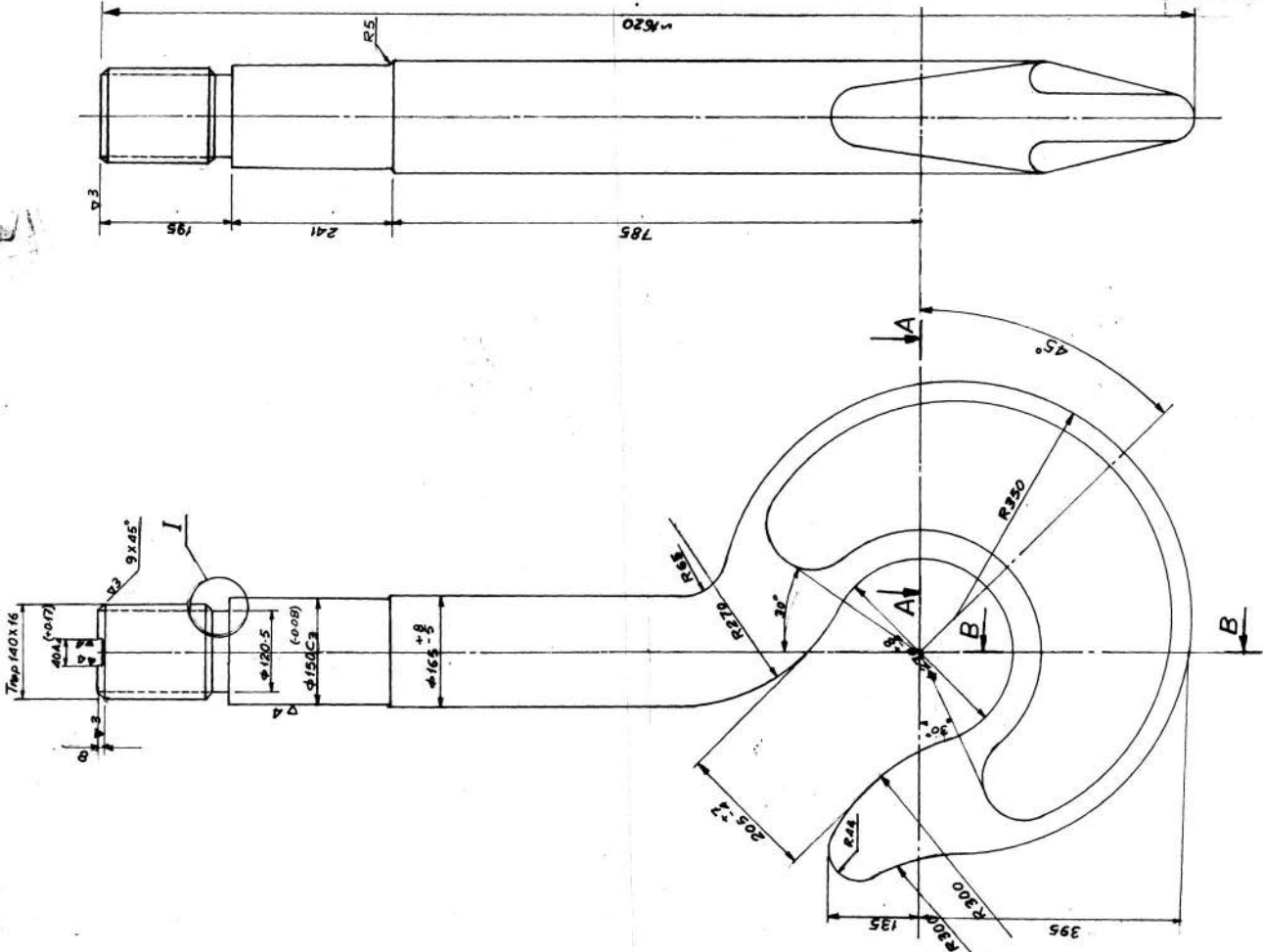
		Hook Nut		3335.40.402	
APPROVED BY: Dr. M. Jha BUREAU CHIEF: D.K. Sinha GROUP LEADER: S.N.L. Gupta DESIGNER: Susant DRAWN BY: P.P.P.		SCALE: 1:2.5 H.M.B. HEC LTD., RANCHI		MAT: 15C8 IS: 2004-91 Nov. 2011 Rev-0	
REF. DRG. NO.	REF. DRG. DATE	REVISION	SIGNATURE	DATE	INDEX

33-3-5269

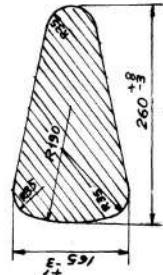
3715.34.401P0

37-2-58

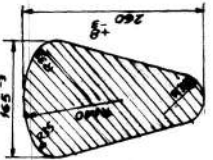
In The rest.



Section - A-A

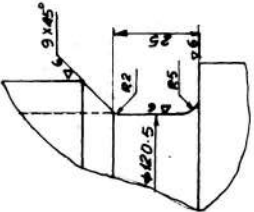


Section - B-B



Detail - I

Scale: 1:1



Technical Instructions

- The surface of the hook must be clean, projected edges, blisters sharp edges, cracks and undercuts on the machined shank of the hook are not allowed. Cleaning of defects without affecting the strength of the hook may be done. Welding or building of defects of the hook are not allowed.
- The hook must stand testing for strength for a load of 25% more than the nominal load. It is allowed to test the hook for strength along with the hoist mechanism for which the hook is meant.
- The hook must carry the mark of the plant, capacity and the stamp of the inspection dept.
- Material to be tested as per Group V CFS 25 IM 9300.
- Machining of 40Mn (40MnV3) to be done together with hook nut dry No 3715.34.402 P0.
- Forging to be of Ultra-temic quality conforming to Standard FFS-235.

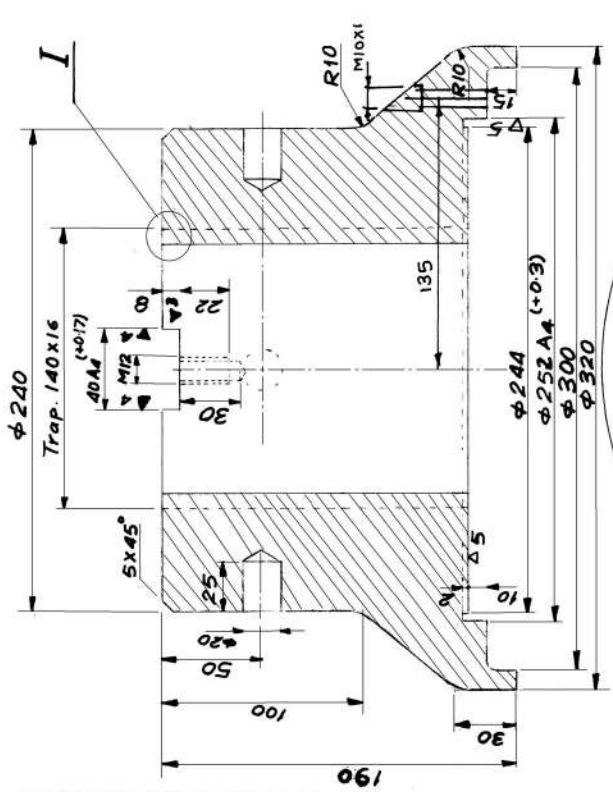
CRANE
24/15/53

* 20C15
IS:4367-91
* 20C8
15+2004-9

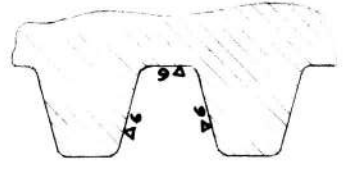
3715.34.401P0		Hook 50T		3715.34.401P	
Spec. No.	3715.34.401P0	Spec. No.	3715.34.401P	Weight in kg	398
Drawn by	A. K. Sinha	Checked by	A. K. Sinha	Material	40MnV3
Design No.		Revision		Inspected by	
Issue No.		Signature		Date	

37-2-58

3715.34.402P0.



Detail-I
Scale-2:1



CRANE
20/12/04

Technical Instruction

1. Material to be tested as per Group III C/S 32 (Table II, IM 3300.)
2. Machining of 40A4 (V4) to be done together with hook drg No. 3715.34.401P0.
3. Forging is to be of ultrasonic quality conforming to Standard FFS-236.

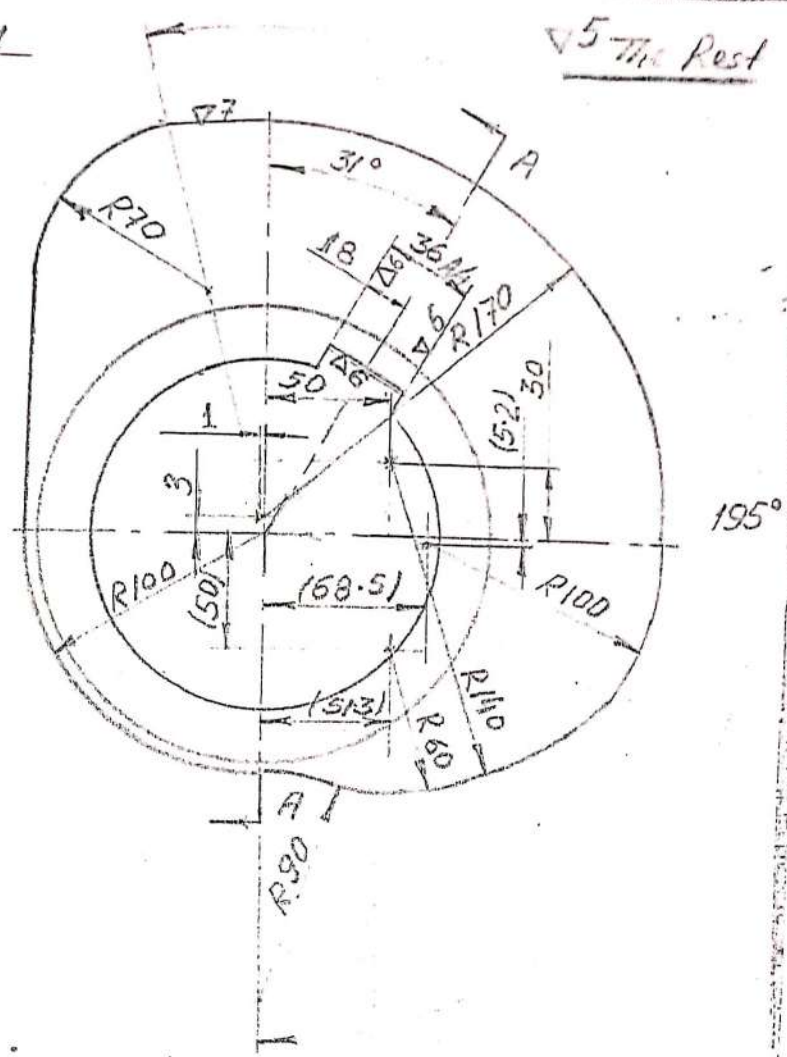
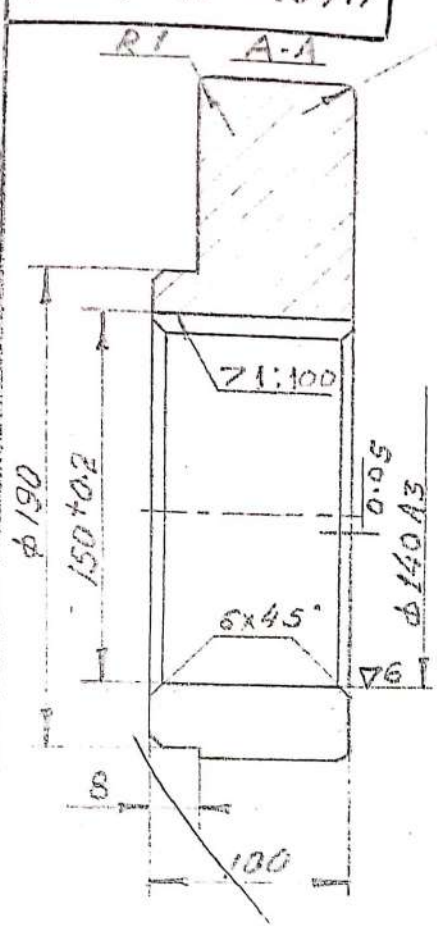
* 45C8
IS:2004-91

3715.34.402P0.		* G-45	
		Material: IS-2004-70	
Head of Dept.	V.C. Mishra	Scale: 1:2.5	Weight in kg 5.3
	Bureau Chief	D. Sricharan	
	Group Leader	A.K. Sinha	
3715.34.402P0.		HMB	
Ref. Drg No.		H. E. C. LTD., RANCHI	
		Feb 80	
		REV. 0	

Hook nut.

Index	No.	Revision	Signature	Date

H483-13-418A



Form-140

Technical Requirement

- 1 Heat Treatment: 20X-42 ± 2.5 - M59 on cam profile
- 2 Non parallelity of generatics of cam profile axis with respect to the hole $\phi 140 \pm 0.03$ should not be more than 0.03 for angle 195° and for the rest not more than 0.1 mm.
- 3 Non-Parallelity of key way sides 36 ± 0.04 to the axis of $\phi 140 \pm 0.03$ should not be more than 0.1 mm.
- 4 Non-symmetry of key way 36 ± 0.04 with respect to the axis AOA should not be more than 0.5 mm.
- 5 Finishing $\nabla 5$ on the surface of radius is allowed.

CAM		H483-13-418A
Model	-	H483
		Material: St 20X IS: 1528-61
		Weight in Kg: 30
Bureau Chief		Scale:
Group Leader	S.K. Sharma	HMB M M D H E D I T O R R A N C H I
Designer	C K Saha	
Drawn by	P R Singh	
		Jan 81