



DREDGING CORPORATION OF INDIA LIMITED
"Dredge House" HB COLONY MAIN ROAD
VISAKHAPATNAM-530 022 (INDIA)

NIT REF: DCI/TECH/RS/12/2025-26/KANDLA

Date: 15.12.2025

NOTICE INVITING e-TENDER

1. DCI invites online tender on CPPP Website: <http://www.eprocure.gov.in> from reputed Indian ship repair firms for entering into rate schedule agreement for the various dredger repair jobs mentioned in the BOQ for a period of two years from the date of finalization of the contract and **extendable for one more year on mutual agreement**. Repair firms are expected to attend repairs onboard DCI Dredgers operating at **Kandla** (Base Port), and may also be permitted to work at other ports at discretion (Schedule-II of BOQ).

DESCRIPTION OF WORK	EMD COST (Rs.)	TENDER DOCUMENT COST (Rs.)
To attend various dredger repair jobs mentioned in the BOQ onboard DCI Dredgers operating at various ports in India for a period of 2 years and extendable by one more year on mutual agreement.	INR 25,000 (Indian Rupees Twenty five thousand only)	INR 6000.00 (Indian Rupees Six Thousand Only)

2. Time Schedule

SL.NO.	PARTICULARS	DATE	TIME
1	Tender e-Publication	15.12.2025	10:30Hrs
2	Document Download Start	15.12.2025	10:30Hrs
3	Document Download End	05.01.2026	10:30Hrs
4	Bid Submission Start	15.12.2025	11:00Hrs
5	Bid Submission End	05.01.2026	11:00Hrs
6	Clarification Start	20.12.2025	11:00Hrs
7	Clarification End	26.12.2025	11:00Hrs
8	Bid Opening	05.01.2026	11:30Hrs

3. Repair jobs to be attended are given below:

S No	Schedule	Description
1	01-01	De- Carbonization and overhauling of engines
2	01-02	Ancillary repair works for diesel engines
3	02-01	Heat Exchangers and Coolers
4	03-01	Centrifugal Sea water & Fresh water pumps
5	04-01	Gear Pumps
6	05-01	Dredge / Sand Pumps
7	06-01	Jet Pumps
8	07-01	Sea Suction and Discharge Valves
9	08-01	Hydraulically operated sluice valves / Butterfly valves
10	09-01	Drag heads
11	10-01	Hydraulic cylinders
12	11-01	Windlass
13	12-01	Sheaves & Pulleys
14	13-01	GI Pipes
15	14-01	Solid drawn MS Scheduled pipes

16	14-02	Solid drawn SS Pipes
17	15-01	Steel renewal
18	16-01	Metal Building and Reconditioning of Heavy items
19	17-01	A.C Motors / Generators
20	18-01	DC Generators / Motors
21	19-01	Alternators
22	20-01	All types of couplings
23	21-01	Hydraulic winches and Gear Boxes
24	22-01	Sand/ Jet pumps suction and discharge pipes
25	23-01	Electrical Miscellaneous works
26	24-01	AC & refrigeration works
27	25-01	Make & supply items
28	26-01(A)	LSA & LB servicing
	26-01(B)	LSA & LR Servicing
29	27-01	CO2 & FFA items
30	28-01	All Gantries
	28-02	Cranes & Ladders
	28-03	Plumbing & Carpentry Jobs
	28-04	Make & Supply of Hydraulic hoses
31	29-01	Tank cleaning

4. Interested ship repair firm can download the tender documents from the website: www.eprocure.gov.in
5. The eligible bidders should have the digital signature certificate (DSC) issued from any agency authorized by controller of certifying authority (CCA), a Govt. of India.
6. Tender document can be downloaded from the website: <http://www.eprocure.gov.in> and those who wish to participate online bidding should remit the amount of cost of tender documents and EMD through RTGS/NEFT and receipt for the same should be scanned and uploaded in CPPP at the time of bid submission, without which Tenders will be rejected.
7. The Bidder shall deposit /remit cost of tender documents of Indian Rupees Rs.6,000.00 into DCI account No: 35833070000014, IFSC code: CNRB0013583, MICR code: 530015032, Canara Bank, DCI Branch, at Visakhapatnam.
8. Earnest Money Deposit (EMD): The Bidder shall deposit / remit Earnest Money deposit of INR 25,000/- (Indian Rupees Twenty-Five thousand only) into DCI account No: 35833070000014, IFSC code: CNRB0013583, MICR code: 530015032, Canara Bank, DCI Branch, Visakhapatnam.
9. Last date & time for online submission of the bid & relevant documents as per the tender document is on 05.01.2026 at 11:00 hrs and will be opened on 05.01.2026 at 11:30 hrs.
10. Further instructions are given in the tender documents.
11. Bidders should have their own/ leased workshop with full repair infrastructure and relevant experiences in Dredgers repairs. In case of leased workshop, lease hire agreement has to be provided.
12. The corporation reserves the right to accept or decline the tender to any party/Bidder at its sole discretion and no correspondence will be entertained in this respect.

HOD (TECH)

website. No editing, addition, deletion of matter shall be permitted. If such action is observed at any stage, such tenders are liable for outright rejection.

8. Interested eligible Bidders may obtain further information from and inspect the bidding documents at the office of :

Head of Dept (TECHNICAL)
DREDGING CORPORATION OF INDIA LTD,
DREDGE HOUSE, H.B Colony Main road
VISAKHAPATNAM- 530 022
ANDHRA PRADESH, INDIA
Email id: hodtech@dcil.co.in

9. All the dry-docking repairs are to be carried out under the inspection / supervision of ship staff.

10. Tender shall be submitted online only at CPPP website: <http://www.eprocure.gov.in>. Bidders are advised to refer the Bidders Manual Kit for e-Submission of the bids online through the Central Public Procurement Portal available at the website: <http://eprocure.gov.in>. Aspiring Bidders/Suppliers who have not enrolled/registered in e-Procurement should enroll/register before participating through the website <http://www.eprocure.gov.in>. The portal enrolment is free of cost.

11. All documents as per tender requirement should be uploaded online and further, no documents will be accepted offline. Any payment shall be made in online mode only. Bidders who are not submitting any of the required documents online will summarily be rejected.

12. The details of the Tender Document cost and EMD should be filled and uploaded online. Earnest Money Deposit (EMD) for INR 25,000.00 (Indian Rupees Twenty five thousand only) (REFUNDABLE) and Tender document cost for INR 6000.00 (Indian Rupees Six Thousand Only) (NON-REFUNDABLE) should be remitted through RTGS/NEFT/BANK GUARANTEE/Any Online Mode for our account detailed below. Bidders who are registered with NSIC, MSME and SME are exempted from Tenders documents cost and EMD upon submission of valid documentary evidences. Bidders without EMD & Tender documents cost will not be considered. The bank details are as follows

- a) DCI Current Account No : 35833070000014
- b) Bank Name : Canara Bank
- c) Branch Name : DCI LTD BRANCH,VISAKHAPATNAM-530022 (AP)
- d) IFSC/RTGS No : CNRB0013583
- e) MICR code : 530015032

13. Technical Bids will be opened through online mode at 11:30 Hours on dt 05.01.2026 at the Head Office of Dredging Corporation of India Ltd, "Dredge House" HB Colony Main Road, Visakhapatnam-530 022 (INDIA).

14. After scrutiny/evaluation of Technical Bid, the Price bid/ BoQ of the technically qualified bidder will only be considered for opening in CPPP portal. DCI reserves the right to enter into a rate schedule agreement with new parties within 1 year of entering into agreement with the same rates, terms & conditions, provided the party meeting the pre-qualification criteria and work shop inspection by DCI committee.

15. Any changes due to administrative or any other causes shall be available on Central Public Procurement Portal (CPPP Website) <http://www.eprocure.gov.in>. Therefore, bidders/contractors are requested to visit this website regularly for any changes in above particulars.

HOD (TECH)

DREDGING CORPORATION OF INDIA LIMITED

DREDGE HOUSE, HB COLONY, MAIN ROAD,

VISAKHAPATNAM – 530 022



NIT Ref: DCI/TECH/RS/2025-26/KANDLA Dt: 15.12.2025

FOR

RATE SCHEDULE REPAIR WORKS



DREDGING CORPORATION OF INDIA LIMITED
VISAKHAPATNAM

INDEX

Sl.No	Description	Page No.
1	General Tender Conditions (GTC)	
2	Schedule items of Repair (BOQ)	
	Schedule –I	
	Schedule –II	
	Schedule -III	
3	Guidelines to the Workshops	
4	Details of the Workshop	
5	Check List for Bidders	
6	Undertaking of Workshops	
7	Format of Work Done Certificate (WDC)-Annexure-I	
8	Integrity Pact – Annexure-II	

GENERAL TERMS AND CONDITIONS

1. We generally entrust the job to ship repair firms as detailed in Schedule-I, II and III. We have endeavored to the extent possible to give full details of scope of work required in the schedule. Depending on the costs and conditions prevailing at each place, we request you to quote your most competitive rates against each item of repair work mentioned herein.
2. Unless otherwise stated in this document, the costs should include labour, material, tools & tackles, all consumables, incidental items of works, loading, unloading, transportation, profits, taxes, duties and levies and all other expenses that may be required to be incurred to carry out the repairs.
 - 2.1 Liabilities if any on account of statutory acts such as Payment of Wages Act, Minimum Wages Act, Employers Liability Act, Industrial Disputes Act, Provident Fund Act, Compensation under Workmen's Compensations Act and other regulations of both Local and Central Governments or any modifications thereof or any other law relating thereto and rules made there under from time to time shall be to the repair firms account. The repair firm must indemnify the Corporation against all such liabilities.
 - 2.2 GST on labour and material etc as per the applicable guide lines of Govt.
 - 2.3 Wages shall be paid by the contractor to the workmen directly. The Corporation has no responsibility whatsoever, in this regard.
 - 2.4 Any liability in case of injury to the workmen on board D.C.I dredgers shall be borne by the contractor/ Repair Firm.
 - 2.5 Unless otherwise specified, expenses incurred towards Transportation (for more than 1 Ton), deploying special equipment such as high lift crane, floating crane, crawler crane and barges etc, by the repairer with the prior approval of the Competent Authority of the Corporation and cost will be reimbursed by the Corporation, on production of supporting bills.
- 3.0 The basic cost of materials used in the repairs will be settled / admitted subject to justification based on prevailing market rates.
 - 3.1 The Corporation reserves the right to establish procedure to satisfy itself about the reasonableness of the claim.
- 4.0 Repairs entrusted are required to be completed within the reasonable time period specified by the Competent Officer(s) of the Corporation awarding the work.
 - 4.1 The workshop should submit / establish the-work procedure prior to carrying out critical jobs on board dredgers, to Master / CEO of the vessel / Head of the Project. Repair works are to be done as per ISO 9001 standards.
 - 4.2 The workshop personnel deployed on board DCI Dredgers should be on Personal Safety Gears like Safety shoes, Gloves, Goggles, and helmets etc.
 - 4.3 The Corporation is at liberty to entrust the balance work to some other repair firm at the repairer's risk and cost, if the repair is not executed within the reasonable time or quality is not satisfactory.
- 5.0 The repairs are required to be carried out at different Ports in India including minor ports depending upon the assignment / place of dry-dock etc. Therefore, you are requested to quote your price at your original place of work and for outstation for the items specified in Schedule I & III, specifying the percentage increase in Schedule-II, with respect to your Original Place of Work.
- 6.0 For certain Items, it has been indicated in the Schedule that the rates are for renewals with ships supply. In such case, where supply could not be arranged by ship, the same shall have to be supplied by repairer, which will be paid along with material handling expenses as agreed by the Corporation.
 - 6.1 The old spare parts are the property of the Corporation and the same will have to be returned to the Corporation by the repairer.

6.2 In case of steel scrap generated out of Crop & Renewal of Steel on board Vessel, the same may be retained by the contractor.

6.3 PRE-QUALIFICATION CRITERIA:

- a) Bidder should have their repair firm with full repair infrastructure facility & full work force. Bidder should submit supporting documents for the work experience on ships/dredgers/marine/mechanical/shipyard/works for the past 7 years. The submitted experience should be relevant to the repair jobs mentioned in the rate schedule.
- b) Repair firm's registration certificate to be provided. If registered as small-scale industry (SSI/MSME/NSIC) with dept industries, the documentary evidence has to be produced.
- c) Repair firm's PAN, PF, GST etc., registration certificate to be provided
- d) Repair firm's dock entry permit for the port where the workshop is operating to be provided
- e) Audited balance sheet for last three years with Positive Net Worth.

6.4 Method of submission of quote: Quote to be submitted online as per the BOQ.

The BOQ contains general and specialized jobs. Repair firms are advised to quote the works as per their competencies. Repair firms may quote "0" (Zero) for those repair jobs which are specialized in nature/ competency is not available without leaving blank.

6.5 VALIDITY OF QUOTATION:

The Bidder should keep open the validity of the tender for 90 days from the date of Price Bid opening. The Bidder shall also keep the validity open for another 30 days in case a request in writing by DCI is made before expiry of initial validity period.

6.6 Method of evaluation of Bids

a) Technical Bids of the participated bidders, who have submitted tender cost and EMD (except those who have been exempted from tender cost & EMD submission), will be opened. Documents submitted by the bidder against PQ criteria will be recorded and will be verified by a DCI committee, followed by workshop Inspection.

b) Workshops already registered & are in service with DCI are exempted from Workshop Inspection in order to speed up the process of Technical Evaluation. Repair firms disqualified during the previous Tendering process either in Technical Evaluation OR Financial evaluation need not apply. Applications / bids received from such disqualified firms will be summarily rejected.

c) Technically qualified bidders as per the recommendations of the DCI committee, will only be admitted and processed for opening of Price bids.

d) As per e-procurement procedure, Bidder has to quote/fill for all the BOQ items. Some of the jobs are specialised in nature and all the parties may not quote for all the schedules. Repair firms can quote those areas/Schedules in which they are competent. For example: Refrigeration & A/C works, LSA & FFA works, and Hydraulic works etc which are specialised in nature.

e) Hence, If any party is not interested in participating/quoting any of the BOQ/Schedules item, they may quote it as 0 (Zero). Such party quoted zero will not be considered (Zero will not be considered for evaluation/finalisation of item wise L1 for that BOQ item). L1 will be arrived/evaluated for that BOQ on manual mode, by taking remaining Parties into consideration. In other words, due to the limitations, the system generated L-1 will not be considered but L-1 will be evaluated manually.

f) The L-1 quote for each item of the repair schedule will thus be evaluated and recorded. A rate schedule with all the L-1 quotes of the bidders will be prepared and circulated for acceptance of all the other technically qualified bidders of the tender. The accepted bidders will enter into rate contract with DCI for attending repair jobs mentioned in the rate schedule for the agreed rates for period of two years from the date of signing of the contract. EMD of the accepted bidders will be converted into security deposit and will be retained by the corporation during the period of the contract.

7.0 **AWARD OF WORK**

7.1 The repair jobs will be raised by the Master / Chief Engineer Officer and awarded by Head of Project / Officer Authorized by Head of Technical Department by issuing Defect List-cum-Work Order. In the Circumstances requiring urgent repairs, work may commence on receipt of letter / email / telephone communication in lieu of Defect List cum Work Order, which will be followed by a confirmatory Work Order-

7.2 The Corporation reserves the right to allot / reject the work to any Registered Repair Workshop of DCI without assigning any reasons.

7.3 The Corporation reserves the right to entrust the repair work on '**Cost Plus**' basis for Items of repair not covered in the Rate Schedule. For such works, payment will be made for the actual costs incurred inclusive of all overheads as detailed at Schedule-I.

8.0 **BILLS:**

8.1 The Corporation will settle and release the admissible bill claim within **90 days** on the receipt of the bill complete in all respects at either DCI-Head Office / Project Office.

8.2 The time stipulated in respect of the payment of the bills is not binding upon the Corporation under unavoidable circumstances. DCI shall not be liable to pay any interest on the delayed payments for any reason what-so-ever.

8.3 Claims and bills raised on duplicate / Xerox / Photostat copies shall be summarily rejected and will not be considered for payment.

8.4 In case, the Contractor claims Rate Schedule items (Schedule-III items) on cost plus basis, payment will be regularized on Rate Schedule rates only.

8.5 It should be ensured that, repair bills complete in all respects should be submitted by the Contractor within **45 days** after completion of the repairs. DCI reserves the right to process the bills submitted beyond 45 days. However, No bill or claim what so ever may be will be entertained on this account beyond 180 days.

8.6 In case of loss bill, WDC/ Yellow copy of DL cum WO (original), the contractor shall immediately inform to the Corporation in writing an Affidavit in support of works awarded by D.C.I and the details work carried with dates by contractor on Rs.100/- stamp paper (duly Notarized) along with duplicate bill, copy of WDC & work order may be submitted at the concerned D.C.I Office within 6 months from the date of completion of work on board dredgers. No bill or claim what so ever may be the reason after six months will be entertained by the Corporation.

8.7 Rates quoted should be for carrying out repair works during normal time and alongside the jetty. Extra percentage as fixed at item 2 (a & b) of Sch-II shall be payable in case of works carried out in anchorage or during double Banking. No other claim or what so ever may be will be entertained on this account.

8.8 No Transportation, Lodging & Boarding Charges for men and material etc., would be allowed separately for outstation works.

9.0 **WORK DONE CERTIFICATE**

9.1 The repair bill (in Triplicate) should be submitted duly supported by the original defect list cum Work Order, Work Done Certificate (WDC) in original, Performance Guarantee Certificate (if applicable) and supporting vouchers in support of material claims (if any).

9.2 The work done certificate must be submitted to the vessel immediately on completion of work. No delay shall be accepted under any circumstances.

9.3 The Work Done Certificate should be prepared in line with the description of rate schedule book duly incorporating the details of labour engaged, materials consumed, Over Time etc.

9.4 The Work Done Certificate should be signed by: Deck side= Master in command, Engg. Side = CEO / EIC, (or), Deck/Engg. Side = Officer Authorized by Head of Technical Department and counter signed by Technical Officer (PO/ HO) should be submitted at the Project Office where work was awarded.

9.5 Workshop should submit the work done certificate duly signed by their authorized representative in proof of the job carried as per the approved procedure and found in order.

9.6 The following details shall be recorded in the Work Done Certificate (W.D.C):

- i. Break-up details of Manpower employed and man-days consumed.
- ii. Date wise Over Time hours,
- iii. Materials used/ consumed.
- iv. Date of commencement & Completion of the works.

9.7 Mode of transportation (Boat/ Road) for repaired items and inspection at workshop by Ship staff / Surveyors shall be invariably recorded in the Work Completion Certificate.

10.0 **OTHER TERMS & CONDITIONS:**

10.1 The decision of the Head of Technical Department at DCI H.O shall be final, conclusive and binding on all parties to the contract, regarding all questions relating to specifications, designs, drawings & instructions, quality of workmanship or materials used, manpower engaged in the repair work or any matter arising out of or relating to the specifications, designs, drawings & instructions concerning the repair works or execution or failure to execute the same, that might arise during the course of execution of maintenance/repair works.

10.2 The above shall not be the subject of arbitration and in no case shall the work be stopped consequent on such a dispute arising and the repair work shall be carried out by the repair workshop strictly in accordance with the instructions of the Head of Technical Department or the Officer specifically authorized by him.

10.3 No counter conditions of repair firms shall be entertained by DCI.

11.0 The Bidder shall furnish latest Income Tax Clearance Certificate and PAN/TAN/ Number, enable us to indicate the same in Tax deducted at source Certificate as per recent I.T. Rules along with the Technical Bid.

12.0 The Bidder shall submit a balance sheet duly audited for the period of three years immediately preceding the current financial year and attested copy of Service Tax registration along with the Technical Bid.

13.0 Bidder is required to pass on the "input credit of GST" available for the material and service procured by them for carrying out repair work to DCI Dredgers. For this purpose, Original invoice (in the name of DCI) is required to be produced & submitted to DCI for all material/ service

procured by them for carrying out repair work for DCI Dredgers, failing which DCI shall only reimburse the basic cost without GST.

(The above points at SI no-13.0 shall not apply to items quoted under Schedule-III)

14.0 TAXES AND DUTIES:

- a) All taxes, duties, levies etc., of any kind levied by any Authority (exclusive of GST), shall be borne by the Bidder and the tendered rates will be deemed to be inclusive of all such liabilities.
- b) Repair firms shall quote their tendered rates, excluding GST. GST will be reimbursed to Repair firms, at actual, on submission of proof of payment by them.
- c) While evaluating the tenders to arrive at Lowest Bidder (L-1), the basic repair cost quoted by the Repair firms, excluding GST shall be considered.
- d) All Indian Repair firms should raise invoice to DCI project offices where the dredger repair are carried out with the GST Numbers of the concerned DCI project offices.

14.1 The Bidder should also produce the latest valid attested copies of State / Central Sales Tax/GST Registration Certificate along with the latest Assessment Orders of the State and Central Governments with proof of payment, with the Technical Bid.

15.0 The Bidder should also produce P.F. registration number issued by the local P.F. Authorities, towards payment of monthly Provident Fund contributions in respect of the workers / employees engaged by him. If the PF number is not submitted, the PF recovery will be made as per the percentage fixed by the PF Authorities from time to time from the repair bill.

15.1 A copy of latest payment certificate detailing the amount paid for number of employees should be produced annually to the Corporation for verification.

16.0 All the correspondence exchanged between DCI and Bidder shall form part of this contract.

16.1 The Rates in this agreement shall be valid for a minimum initial period of two years commencing from the date of signing of this R.S agreement by successful bidder(s) and extendable for further period on mutual consent.

17.0 The Bidder should also possess valid Port/Customs entry/License respectively, which should be produced to the Corporation for verification purpose wherever required.

18.0 EARNEST MONEY DEPOSIT (EMD):

Details of EMD to be submitted

Category of W/S	Value of EMD
All Category	Rs.25,000/-

- a) The Bidder shall deposit Earnest Money deposit of Rs. 25,000.00/- (Indian Rupees Twenty five thousand only) into DCI account No: 35833070000014, IFSC code: CNRB0013583, MICR code: 530015032, Canara Bank, DCI Branch, Visakhapatnam and same should be scanned and uploaded in CPPP at the time of bid submission, without which Tenders will be rejected.
- b) Unsuccessful Bidders EMD will be discharged or returned as promptly as possible, but not later than the expiration of the period of Tender validity as prescribed by DCI.
- c) The successful Bidders EMD will be converted into performance security on the placement of work order.
- d) The earnest money deposit may be forfeited:
 - I. If a Bidder:
 - a) Withdraws its tender during the period of tender validity specified by the Bidder in the tender.
 - b) Does not accept the correction of errors
 - II. In the case of a successful Bidder, if the Bidder fails:

- a) To sign the work order
- b) To execute the work as per the work order.
- e) Earnest Money Deposit shall not carry any interest.

18.1 The Bidder is required to furnish the value of EMD by depositing into DCI account as given & advised in NIT and details to be submitted with the Technical Bid.

18.2 The E.M.D. will be released only after satisfactory completion of the work at the end of Contract period. Under no circumstances, submission of above stated EMD by way of BG/Electronic transfer can be adjusted from your outstanding/future bills.

18.3 After the agreement is concluded with the Bidder, the EMD received in the shape of Bank Guarantee will be converted as Security Deposit and retained with the Corporation till the expiry of the Contract period.

18.4 The above amount will be forfeited without any prejudice in case of any default of the repair firm on any account of any works or claims.

18.5 In case the party submits E.M.D in the shape of Bank guarantee, it should be given on Rs.100/- stamp paper.

18.6 Bids without E.M.D will be summarily rejected and no correspondence whatsoever will be entertained.

18.8 The EMD's/BGs shall be furnished a fresh under this contract.

19.0 PERFORMANCE SECURITY:

EMD will be converted into security deposit if the bidder accepts the DCI booklet consisting of L-1 rates obtained from the rate schedule tender for the project. In case of MSME repair firms who are exempted from submission of EMD, have to submit performance security of Rs 25000/- within 10 days of execution of the contract. The performance security will be retained by DCI during the tenure of the contract. Performance security will not carry any interest.

19.1 The Bid cover should contain the Schedules I, II, III as the case may be, duly filled in with the rates quoted for each item..

20.0 The workshop should quote all the items of a particular schedule.

21.0 The Corporation decision is final in all matters.

22.0 DCI reserves the right to accept, reject or extend the period of any or all tenders without assigning any reasons whatsoever.

23.0 Belated tenders are liable to be summarily rejected.

24. ARBITRATION:

- a) Any dispute or difference arises between the DCI and the contractor in connection with the contract or as to the rights and liabilities of the parties hereto, other than those referred to in above or on letters which are stated to be final and binding on the contractor shall be referred to the arbitration by a sole Arbitrator, as per the provisions of the Arbitration and Conciliation Act 1996 and the award of the sole Arbitrator shall be final and binding upon the parties hereto, subject to the provisions of the Arbitration and Conciliation Act 1996. Appointment of sole arbitrator is at the discretion of DCI.
- b) The arbitrator shall give a reasoned Award and it shall be in accordance with the provisions of the Arbitration and Conciliation Act 1996 or any statutory modifications or reenactment thereof. The venue and seat of the Arbitration shall be Visakhapatnam and the courts at Visakhapatnam shall have exclusive jurisdiction on all the matters with reference to this contract.
- c) The Sole Arbitrator is precluded from awarding any interest for the pre-reference period and pendente lite period. The Sole Arbitrator's fees, cost of stay arrangements and transportation shall be equally shared by the two parties. Other legal costs like hiring fees of advocates, appearance fees, professional fees for pleadings, drafting, arguments, etc will be borne by the respective parties. The parties will enter into an agreement to this

effect after a dispute, which either party wants to refer to arbitration, has arisen and before referring the dispute to arbitration. Representing matters to independent external monitors in case of tenders/contracts which are of Rs. 1 crore and above value Signatories to the Integrity Pact with regard to a Tender/Contract can represent a matter with regard to the Tender/Contract to the Independent External Monitors(IEMs) under the Integrity Pact Provisions. Persons signing the Integrity Pact shall not approach for Negotiation/Conciliation/Arbitration/Adjudication while representing matters to the IEMs and he/she will await their decision in the matter.

25. LEGAL PROCEEDINGS:

Jurisdiction, for legal proceedings, if any, shall be at Visakhapatnam, Andhra Pradesh, India.

26.1 The bidder to give an undertaking that they have not made any payment or illegal gratification to any person /authority connected with the bid process so as to influence the bid process and have not committed any offence under prevention of **Corruption Act in connection with the bid.**

26.2. The bidder shall disclose any payments made or proposed to be made to any intermediaries (agents etc.) in connection with the bid.

27. INTEGRITY PACT (IP):

Shall cover this tender throughout its various phases, and IP would be deemed as a part of the contract through an appropriate provision. The bidders should sign and submit an “Integrity Pact” as enclosed in **Annexure-II** along with the Technical bid in a **separate envelope** superscripted “**Integrity Pact**”. Bids not accompanied by duly signed “Integrity Pact” shall be liable for rejection. IP would be implemented through the Independent External Monitor (IEM) for this tender. The successful Bidder will execute the Pact with Dredging Corporation of India Limited after award of Work.

19. Integrity Pact (IP): Shall cover this tender throughout its various phases, and IP would be deemed as a part of the contract through an appropriate provision. The bidders should sign and submit an “Integrity Pact” as enclosed in Annexure-II along with the Technical bid. Bids not accompanied by duly signed “Integrity Pact” shall be liable for rejection. IP would be implemented through the Independent External Monitor (IEM) for this tender. The successful tenderer will execute the Integrity Pact with Dredging Corporation of India Limited after award of Work. The successful tenderer will also be required to sign the “Integrity Pact” as enclosed in Annexure-IV. The addresses of the same are: 1) Shri Prahlad Kumar Sinha, A303 Sanskriti Vihar, 10th Avenue, Gaur city 2, Greater Noida West, Gautam Budh Nagar, UP – 201318 Mobile – 9432677066 Email: pekay66@gmail.com (b) Shri Aditya Kumar Mittal, Flat C-2/10 (3102), Vanashree CHS, Plot 1 & 2, Sector 58A, Palm Beach Road, Near Seawood Estates, Nerul (West), Navi Mumbai– 400706 Mobile: 9560527000 Email: adityakumarmittal@gmail.com

28. DCI has the right to enter into a rate schedule agreement with new parties within 1 year of entering into agreement with the same rates, terms & conditions, provided the party meeting the pre-qualification criteria and work shop inspection by DCI committee.

Thanking you,

Yours faithfully,
for Dredging Corporation of India Limited

(YSR Murthy)
Head of Department (Tech)

GUIDELINES TO REPAIR FIRM WITH REGARD TO SUBMISSION OF INVOICES

1. DL cum WO containing the scope of repair to be undertaken onboard DCI Dredger will be issued by Master/CEO of the vessel. The DL issued by the vessel will be sanctioned by the technical officer/ Project Manager of the project where the vessel is operating. Two copies of the DL cum Work order, namely the work order to be attached with the invoice and another copy containing the workshop copy will be forwarded to repair firm for commencing the work. Workshop has to commence the job by mobilizing material and man power required for completion of the repair job. Repair work has to be carried out to the satisfaction of the ship staff. In the circumstances requiring urgent repairs, even letter/fax/e-mail communication/ in lieu of work order will be issued, followed by confirmatory work order duly sanctioned by the Competent Authority.

2. After successful completion of the job, work completion certificate has to be prepared by the workshop containing the details like DL cum WO number & date, work commencement and completion date, description of the repair work carried out, men and material used for carrying out the repairs, number of shifts the man power (skilled and unskilled) worked onboard, work carried out during overtime etc are to be mentioned in the work completion certificate. The work completion certificate should be prepared in 4 copies (One original + 3 Copies) with the signature of supervisor attending from the workshop, for scrutiny and endorsement by Master/ CEO of the vessel. Original work completion certificate has to be stamped as "ORIGINAL –FOR PAYMENT "and on all other copies the rubber stamp "COPY – NOT FOR PAYMENT" should be affixed. The description of job in WDC should be in-line with DCI work scope mentioned in work package. The work completion certificate in quadruplicate will be signed by Master /CEO of the vessel. The 4th copy of the WDC will be retained by the vessel and other three copies (One original + 2 duplicate copy) will be forwarded to Project office for endorsement of Project Manager. After endorsement by Project Manager, the workshop has to collect the WDC for submission of invoice in triplicate to Project Manager. If the repair works are supervised by H.O. in the absence of project office, the work completion certificates are to be endorsed by the technical superintendent of the vessel instead of Project Manager.

Any job that is not covered in the rate schedule has to be carried out on cost plus basis. In such case, material bill in proof of procurement of material used in the repair work has to be submitted along with the repair invoice for scrutiny of the project office. The work completion certificate should clearly specify the man power engaged, date of commencement and completion of the job, no of shifts consumed by the man power, details of the material used in the repair works etc are to be recorded in the WDC for endorsement of Master/ CEO of the vessel and Project Manager /Attending Superintendent.

- a. Details of repairs if any, carried out by sub-contractors of the Repair firm, are to be separately indicated in the WDC for the approval of Master/CEO of the vessel and Project manager/ Attending Supdt, as the case may be. The certified WDC should be submitted along with the Invoice of the Repair firm.
- b. Please ensure that WDC does not contain any adverse remarks / observations of MASTER / CEO. Such remarks should be sorted out before sailing of the dredger from the port where the repair work has been carried out. This will avoid non-payment/ subsequent correspondence and delay thereof in settlement of the Invoice.
- c. Please indicate the quoted rates against each amount claimed in the Invoice – Item wise and schedule wise to facilitate easy scrutiny.

- d. Details of services rendered by OEM may be submitted along with the **original passed invoice or Proof of payment & Repair firm certified copy of bill, time sheets** duly signed by MASTER or CEO as the case may be and countersigned by Project Manager/ Attending Superintendent, otherwise claim will not be entertained. OEM service engineers to be arranged by the Repair firm with DCI approval. The Service engineer charges will be paid to the Repair firm with 10% mark-up (i.e., actuals + 10 %).

- e. Cost of materials incorporated in the work as reflected in work done certificate (in case of material purchase of above Rs. 10,000/- value made, supporting vouchers/bills i.e., **Original passed invoice or Proof of payment & Repair firm certified copy of bill** along with proof of payment should be enclosed. Extra 10% on actual material cost only will be paid towards overhead handling / transportation and other incidental charges etc.,

DETAILS OF THE SHIP REPAIR FIRM

(Please furnish copies of documents wherever applicable)

1. a) Name of the Repair firm with full address including phone/e-mail / fax, etc.
b) Names & addresses of key persons to be contacted and their qualification, experience, etc.
2. a) Constitution of the firm :
b) Act under which registered :
c) Date of commissioning of the firm
d) Date when repairs commenced
3. Financial background:
a) Names & addresses of banks with whom the accounts are held :
b) Maximum amount of work order carried out during the last three years.
c) Statement of accounts of the firm for the last 3 years with certified published annual report showing the turnover and financial result
d) Whether the firm avails assistance from any Repair firms / Government / other Agencies with details
4. Total area of each Repair firm (indicating separately the details of workshop etc) including details of the firm's workshop facilities, Fabrication shops, machinery facilities and other infra structure facilities etc. indicating their dimensions and capacity.
5. Availability of bonded warehouse and its location, indicating the total area and facilities if available
6. Details of major repairs carried out in your Repair firm for the past 7 years
7. Total infrastructural facilities (crane capacity, pumps capacity etc.) owned by you and available at the Repair firm indicating their capacity, make, etc. and place of operation.
8. Details of special tools if any in your Repair firm
9. Details of total man power indicating the qualification & experience of key persons.
10. Names & address (including phone numbers, e-mail etc) of agents for services?
11. Scrap disposal arrangements

CHECK LIST

Bidders are requested to take into account of the following before submission of the tender for rate schedule works

<u>Sl No.</u>	<u>Action</u>	<u>(Yes / No)</u> <u>l</u>
1	Please read and understand full set of tender documents	
2	Visit the dredger, if required, and understand the nature of repairs to be carried out.	
3	Sign and stamp all pages of the tender documents by the authorized signatory. Mention name & designation of the signatory on the tender.	
4	Make 2 sets of tender documents i.e. Part-I - Technical Bid and Part-II - Financial Bid (Price Bid)	
5	Technical Bid should contain following: a) General Tender Conditions b) BOQ Schedule –I, II & III (Blank) c) Guidelines d) Details of Repair firm. e) Check List. f) Undertaking of ship Repair firm. g) Format of WDC h) Integrity pact i) Payment receipt in proof of Tender document cost. j) Payment receipt in proof of Earnest Money Deposit.	
6	Financial Bid should contain the PRICES (Schedule-I, II III) and Percentage of Discount offered, if any.	
8	Rates should be quoted as per tender and submit the completed tender document in online on the website:- http://www.eprocure.gov.in	
9	Rates offered shall include all Taxes, duties, etc. of any kind, but excluding GST.	
11	No COUNTER CONDITIONS are offered. (either in Technical & Price bids)	
12	Bidders can access and download the tender documents from CPP Portal and can fill them with all relevant information and submit the completed tender document online on the website: http://www.eprocure.gov.in . Bidders should submit in Two Cover System (Technical Bid (Cover 1) and Price Bid/Bill of Quantity (BoQ) (Cover 2) for rate schedule repair jobs “Tender No: DCI/TECH/RS/2025-26/KANDLA, Date: 15.12.2025 and due date: 05.01.2026.	
13	Please ensure the tender should submit in CPP portal before the closing time of the tender.	
	<u>PLEASE AVOID</u>	
14	Counter-conditions as it may attract rejection of tender	
15	Mentioning rates in the Technical Bid	
16	Corrections of the prescribed tender documents as it will attract cancellation of tender	

UNDERTAKING

Tender No. DCI/TECH/RS/2025-26/KANDLA dated: 15.12.2025

RATE SCHEDULE REPAIRS OF DCI DREDGERS

As per the Tender requirements, we hereby state that we have strictly quoted for all items in the document as provided on the website only. If we fail to quote for any item and such action is observed at any stage, DCI have a right for rejection of tender.

As per the Tender requirements we hereby state that we have not made any payment or illegal gratification to any person/Authority connected with the Bid process so as to influence the Bid process and have not committed any offence under the prevention of Corruption Act in connection with the Bid.

We also state that no payments have been made nor proposed to be made to any intermediaries in connection with Bid.

Signature of Bidder & Seal

FORMAT OF WORK DONE CERTIFICATE (WDC)

DL cum WO No _____ & Date: _____

Work commencement date :

Work completion date :

a) For the works covered in Schedule -III

(i) Job Description with Schedule Number (if the work is covered in the rate schedule):

(ii) Job done on stream, double banking, and overtime has to be mentioned

b) For the works NOT covered in Schedule –III (done on cost plus jobs)

(i) Job description

(ii) Man Power engaged: Skilled _____, unskilled _____, No of shifts engaged _____

(iii) Description of the material consumed with quantity (supporting invoice for material procured to be submitted if the value of the material procured is Rs 10000/- or more.

(iii) Job done on stream, double banking, overtime etc are to be mentioned

Signature of the Workshop representative
Manager/ Technical officer

Signature of Master /CEO

Signature of Project

INTEGRITY PACT

(Before award of Work: To be submitted on company letter head with duly signed & stamped)

(After award of Work: To be executed on Rs.100/- non-judicial stamp paper in two sets)

Dredging Corporation of India Limited (DCIL) hereinafter referred to as "The Principal".

And

_____ *(Indicate firm name)* hereinafter referred to as 'The Bidder/ Contractor'

Preamble:

The Principal intends to award, under laid down organizational procedures, contract/s for _____ ***(Name of the work)***. The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and /or Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

b. The Principal will during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.

c. The Principal will exclude from the process all known prejudiced persons.

2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

1. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

a. The Bidder(s)/ contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principals employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage or during the execution of the contract.

b. The Bidder(s)/ Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

c. The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractors will not use improperly, for purposes of competition or personal gain, or passion to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the bidder(s)/ contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the “Guidelines on Indian Agents of Foreign Suppliers” shall be disclosed by the Bidder(s)/ Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/ representative have to be in Indian Rupees only.

e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3: Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process.

Section 4: Compensation for Damages

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.

2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.

2. If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process for action can be taken.

Section 6: Equal treatment to all Bidders/Contractors/Subcontractors.

1. The Bidder(s)/ Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.

2. The Principal will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors.

3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7: Criminal charges against violation Bidder(s)/ Contractor(s)/ Subcontractor(s).

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Sub contractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer (CVO).

Section 8: Independent External Monitor/ Monitors

1. The Principal appoints competent and credible Independent External Monitors (IEMs) for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman, DCIL.
3. The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Subcontractor(s) with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties Offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairman, DCIL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit Proposals for correcting problematic situations.
7. Monitor shall be entitled to compensation on the same terms as being extended to/ provided to Independent Directors on the DCIL Board.
8. If the Monitor has reported to the Chairman DCIL, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman DCIL has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word 'Monitor' would include both singular and plural.
10. Integrity Pact would be implemented through the Independent External Monitor (IEM) for this IFB. The addresses of the same are:

- 1) Shri. Aditya Kumar Mittal,
Flat No.C-2/10 (3102), Vanashree CHS,
Plot No.1 & 2, Sector 58A, Palm beach road,
Near Seawoods Estates, Nerul (West)
Navi Mumbai, Maharashtra - 400706
Mobile: +91-9560527000
Email- adityakumarmittal@gmail.com
- 2) Shri. Prahlad Kumar Sinha
A 303, SanskritiVihar, 10th Avenue,
Gaur City 2, Greater Noida West,
Gautam Budh Nagar, U.P. - 201318
Mobile: +91-9432677066
Email- pekay66@gmail.com

Section 9 - Pact Duration

This pact begins when both parties have legally signed it. It expires for the Contractor 08 months after the last payment under the contract, and for all other Bidders 08 months from the date of signing Agreement.

If any claim is made /lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by Chairman of DCIL.

Section 10 - Other provisions

1. This agreement is subject to Indian Law, Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several provisions of this agreement turnout to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Issues like warranty/ Guarantee etc. shall be outside the purview of Monitors.
6. In the event of any contradiction between the Integrity Pact and its Annexure, the clause in the Integrity Pact will prevail.

(For & on behalf of the Principal)

(Office Seal)

(For & On behalf of Bidder/Contractor)

(Office Seal)

Place_____

Date_____

Witness 1:

(Name & Address)

Witness 1:

(Name & Address)

Witness2:

(Name & Address)

Witness2:

(Name & Address)

HYDRAULIC CYLINDERS – DCI BH1

EXCAVATOR BOOM HYDRAULIC CYLINDER DETAILS

TUBE ID	-	400 MM
ROD	-	280 MM
STROKE	-	3400 MM
WORKING PRESSURE	-	320 BAR
DESIGN PRESSURE	-	380 BAR
TEST PRESSURE	-	570 BAR
EQUIVALENCY PUSHING	-	275 BAR
EQUIVALENCY PULLING	-	220 BAR

EXCAVATOR STICK CYLINDER DETAILS

TUBE ID	-	280 MM
ROD	-	200 MM
STROKE	-	2500 MM
WORKING PRESSURE	-	320 BAR
DESIGN PRESSURE	-	380 BAR
TEST PRESSURE	-	570 BAR
EQUIVALENCY PUSHING	-	190 BAR
EQUIVALENCY PULLING	-	150 BAR

EXCAVATOR BUCKET HYDRAULIC CYLINDER DETAILS

TUBE ID	-	260 MM
ROD	-	180 MM
STROKE	-	1750 MM
WORKING PRESSURE	-	320 BAR
DESIGN PRESSURE	-	380 BAR
TEST PRESSURE	-	570 BAR
EQUIVALENCY PUSHING	-	230BAR
EQUIVALENCY PULLING	-	110 BAR

SPUD TILTING HYDRAULIC CYLINDER DETAILS

TUBE ID	-	380 MM
ROD	-	220 MM
STROKE	-	1500 MM
WORKING PRESSURE	-	320 BAR
DESIGN PRESSURE	-	380 BAR
TEST PRESSURE	-	570 BAR

DECK CRANE HYDRAULIC CYLINDER DETAILS

TUBE ID	-	330 MM
STROKE	-	2750
WORKING PRESSURE	-	320 BAR
DESIGN PRESSURE	-	380 BAR
TEST PRESSURE	-	570 BAR

**APPROXIMATE DIMENSIONS OF THE HYDRAULIC CYLINDERS FITTED ONBOARD DCI
TSHD DREDGERS**

S No	Description	DR-8	DR-11	DR12/14	DR-15/16/17	DR-19/20/21
1	Bottom door	250* 160*1000	270*160*1080	320*160*1715	320*160*1080	280*140*1100
2	Upper door	NA	NA	180*90*700	NA	160*80*620
3	Swell compensator	250*160*1000	200*2000	200*2000	220*180*2000	273*200*3000
4	Drag head gantry	250*125*2200	200*100*1950	275*140*2320	250*125*2050	220*110*1855
5	Inter gantry	250*125*2200	200*100*1950	275*140*1715	250*125*2050	180*100*1740
6	Trunnion Gantry	250*125*2200	200*100*750	200*100*530	200*100*589	200*100*500
7	Overflow duct	NA	200*140*3400	250*160*4600	280*180*589	250*160*4300
8	Sluice valve		800mm/650mm		800/600	
			100*50*965	100*50	100*50	
			100*50*780	80*40	80*40	
