

दीनदयाल पत्तन प्राधिकरण
DEENDAYAL PORT AUTHORITY



Office of the Executive Engineer (C-I),
Administrative Office Building
Room no. 206, First Floor
Post Box No. 50, Gandhidham-Kachchh
Email: dpt.roro@gmail.com
www.deendayalport.gov.in

No: CN/WK/Ghogha/1686

Date: 09/12/2025

To,

Expression of Interest

Sub: - Request for EOI for "Dredging in Approach Channel, Turning Circle, Berth Pockets surrounding of Landing Pontoon, etc., for maintaining 6.8m BCD from the existing dredged level at Ghogha Ro-Ro Terminal – Gujarat." - Reg.

Sir,

Deendayal Port Authority intends to carry out the work for "Dredging in Approach Channel, Turning Circle, Berth Pockets surrounding of Landing Pontoon, etc., for maintaining 6.8m BCD from the existing dredged level at Ghogha Ro-Ro Terminal – Gujarat".

Kindly submit your Expression of Interest along with a budgetary – offer as per the prescribed format i.e. Annexure – I & II.

The rates quoted must be inclusive of all taxes, duties for performing the scope of work & exclusive of GST. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your expression of interest along with a budgetary quotation for the above work should reach the following address on or before 16/12/2025 by 15:00 Hrs.

Address: -

Office of the Executive Engineer (C-I),
Project Division, Administrative Office Building,
Room No. 206, First Floor, Annexe,
P.O. Box No. 50, Gandhidham – Kachchh.

Thanking you,

Yours faithfully,

**Executive Engineer (C-I)
Deendayal Port Authority**

sl
fr

BILL OF QUANTITIES

Sr. No.	Description of Items	Quantity	Rate	Unit	Amount
1.	<p>Mobilization of all equipment machinery, crafts including all type of dredgers and ancillary crafts commensuration with the method statement to carry out all the works as per the scope of work within the time specified and demobilize all the equipment brought after completion of the respective works with the prior approval of the "Engineer-in-charge" including cost of all, labour, fuel, consumables, transportation etc. complete.</p> <p>NOTE:</p> <p>(i) The contractors along with their technical offer shall furnish the list of equipment, machineries, dredgers and other ancillary craft along with their tentative schedule for mobilization and demobilization of the equipment's, machinery, floating crafts including the Dredgers. Notwithstanding the fact as to whether the list contains all the equipment/ machinery/ crafts/ dredger or not. It is the responsibility of the contractor to mobilize additional equipment, machineries, crafts, dredgers, etc. without claiming any extra cost for proper completion of the work proper within the specified time.</p> <p>(ii) The total mobilization and demobilization charges shall not be more than the limit prescribed.</p> <p>(iii) 75% of the total lump sum rate quoted for the item shall be released only after mobilization of respective type of dredgers proposed to be deployed for the work in good working condition as per their work methodology statement and upon completion of at least 5% of the total dredging quantity as detailed in Clause No. 5 (without correlating to mobilization of machinery or equipment) and balance 25% of the quoted rate shall be released only after demobilization of all the equipment/machinery/crafts/dredgers and other ancillary crafts.</p>			L.S.	

	(iv) The rate shall include all duties, taxes (excluding GST) and all other charges/expenditure etc., complete in all respects.				
2.	Dredging in Approach channel of length 4150m and 100m wide, turning circle of 150m radius, berth pockets and surroundings of Landing platform, etc., Ghogha from the existing level up to the designed depth of 6.8m BCD, by deploying suitable dredgers like Trailer Suction Hoper Dredger (TSHD)/ Cutter Suction dredger (CSD) / Back hoe(BHD)/grab dredger & necessary ancillary equipment and disposing off the dredged material in the designated disposal area as shown in the drawings during the contract period including all costs and charges and also insurance and all other incidental expenditure arising out of or in connection with the contract etc. and conducting necessary joint quadruplicate pre, progressive and post hydrographic surveys etc.	1,00,000.00		Cu.m.	
3.	Dredging in Approach channel of length 4150m and 100m wide, turning circle of 150m radius, berth pockets and surroundings of Landing platform, etc., Ghogha to maintain the designed depth of 6.8m BCD, by deploying suitable dredgers like Trailer Suction Hoper Dredger (TSHD)/Cutter Suction dredger (CSD)/ Backhoe(BHD)/ grab dredger & necessary ancillary equipment and disposing off the dredged material in the designated disposal area as shown in the drawings during the contract period including all costs and charges and also insurance and all other incidental expenditure arising out of or in connection with the contract etc. and conducting necessary joint quadruplicate pre ,progressive and post hydrographic surveys etc.	10.00		Month	
Total Amount					

Note:-

- The quoted rate shall exclude the GST component. However, the actual GST amount paid by the contractor shall be reimbursed upon production of the paid receipt/invoice.
- The contract period is 12 months.
- The Contractor may raise monthly bills for the completed in-situ quantity based on the quoted rates and payment will be released normally once in a month upon due certification by the Engineer-in-Charge.
- The quantity mentioned in the item No. 2 of BoQ is tentative and it may vary upto any extent either plus side or minus side depending on the non-dredging period of subsequent contract.

1. SCOPE OF WORK / TERMS OF REFERENCE (TOR): -

- The scope of work consists of "Dredging in Approach Channel, Turning Circle, Berth Pockets surrounding of Landing Pontoon, etc., for maintaining 6.8m BCD from the existing dredged level at Ghogha Ro-Ro Terminal – Gujarat" for a period of 12 months for smooth functioning of ferry operations.

- a. Dredging to be carried out in the approach channel and turning circle from the existing level up to the designed depth of 6.8m BCD from the date of commencement of work and shall be completed within 2 months thereafter.

Note: No dredging is contemplated in the side slopes and the natural slope occurred as per the site condition shall be accepted.

- b. Dredging work in approach channel of length 4150m and 100m wide, turning circle of 150m radius and landing platform, etc., of Ghogha channel to maintain the designed depth of 6.8m BCD shall commence from the date of completion of item no. 2 of BoQ and shall be continued for a period of 10 months thereafter.
- Design depth: - **6.8m below CD**
- The contractor shall provide all necessary materials equipment and labour etc. For the execution of the work till completion. Prior Approval of the EIC is required for the use of the materials before it is used in the work of Dredging in Approach Channel, Turning Circle, Berth Pockets surrounding of Landing Pontoon, etc., at Ghogha Ro-Ro Terminal - Gujarat.
- Type of Dredger: - Suitable Trailer Suction Hopper Dredger (TSHD)/ Backhoe Dredger(BHD)/cutter Suction Dredgers(CSD)/Grab Dredger etc.
- Tentative Dumping Ground Location: **Lat-21-40.202' N, Long-72-23.197' E**, approximately at a distance of **6NM** or as directed by EIC.
- Payment will be based on in-situ quantity arrived from joint quadruplicate Hydrographic survey charts. Cumulative Dredged quantities shall be calculated based upon the Base Depth/Pre-Survey chart basis and net dredged quantity shall be paid for the amount of work done during that month. At the end of the project, all the Dredging areas shall be handed over to DPA by achieving a dredging depth of 6.8m BCD as final levels.
- The tidal data shall be measured by Tide gauge located at Jetty close to Survey area. The tidal data shall be measured at every 5min. interval throughout survey period. This observed tide shall be used to reduce raw water depth to chart datum.

- Joint Quadruplicate/ quadruplicate Pre-Dredging Hydrographic survey shall be conducted for accessing the dredged quantities, the same levels shall be treated as Base Depth and shall be taken into consideration for payment of all bills till completion of the said work.
- For smooth functioning of the dredging work, double handling method may be accepted depends on the site conditions.
- During the course of Dredging, if any unforeseeable item has been identified, the same shall be informed by the contractor to the EIC prior to execution. After certification of the same by DPA, the payment for same shall be made on mutually agreeable rates after certification of Joint Quadruplicate team.
- The Dredging operations shall be smoothly carried out in such a way that the execution of the Dredging doesn't obstruct any Navigational movements and the Dredger and its Auxiliary units shall not cause hindrance to any ferry movements and other surrounding activities.
- The Contractor shall at its cost charges/ expenses perform and carry out necessary survey works.
- The disposal of dredge material should be in such a way that no hopper leakage will occur during operation.

2. Target Depth, Widths & Length at Ro-Ro Ghogha:

The contractor shall Dredge in the Ghogha approach channel of length 4150m and 100m wide from the existing level to 6.8m BCD within 2 months from the date of commencement of the work or such other extended date as approved by the Engineer – in – charge, at his discretion.

Subsequent to completion of the entire works specified above, the Contract or during the remaining contract Period is expected to maintain the width & depth of the channel as mentioned below. For this purpose, the portion of the channel where the dredging is to be carried out as indicated below; Target width and depth for Dredging in the channel to be achieved:

Sl. No	Dredging Area	Width to be Achieved & Maintained	Depth to be Achieved & Maintained below existing depth	Length
1	Approach channel	100m	6.8m BCD	4.15 Km
2	Turning Circle	300m diameter	6.8m BCD	

Note:

- No dredging is contemplated to form the side slopes and the natural slope occurred as per the site condition shall be accepted.
- The tenderer shall quote the rates for item no. 3 of BOQ on assured depth basis viz., maintaining the Approach channel of length 4150m and 100m wide, turning circle of 150m radius,

berth pockets and surroundings of Landing platform, etc. of Ghogha channel for a depth of 6.8m BCD. Based on the initial assessment and model studies, it is estimated that an overall quantity of 3,30,000 cu.m shall be dredged within a period of 10 months to maintain the designed depth of 6.8m BCD. The tenderer shall note that the quantity indicated is only tentative and no claim shall be entertained based on the quantities dredged for reasons whatsoever.

3. Payment Schedule

3.1 Dredging in the Approach channel – item no. 2 of BOQ

Dredging in the Ghogha approach channel of length 4150m and 100m wide from existing level to 6.8m BCD (item no.2 of BOQ).

The payment for item no 2 of BOQ shall be made on the actual in-situ quantity removed by contractor based on the quadruplicate survey at the rate quoted by them for the above item in the BOQ. The actual quantity shall be worked out from pre-dredge, interim and post dredge survey work and volume shall be computed by survey software generated TIN model-based volume calculation or any other approved method as approved by the Engineer. The employer shall release the above monthly payments after recovery of the amount, if any, as per the conditions of the Contract. It shall be noted the contractor is neither expected to carry out any dredging to form the side slopes nor any claim on account of the natural slope formation consequent to the dredging in the designated area shall be entertained for reasons whatsoever.

If the contractor completes the deepening as per Item Nos.2 of BOQ earlier than the target period of 2 months; the following will be applicable:

- Upon achieving 6.8m BCD at approach channel and turning circle, the contractor shall submit in writing to the Engineer-in-charge that the designed depth of 6.8m BCD has been achieved in entire length and width of the approach channel and turning circle.
- The Employer shall consider the above submission and organize a joint quadruplicate hydrographic survey in the above mentioned Zone of the navigational channel and turning circle. If the hydrographic survey establishes that the target depth has been achieved in the above mentioned Zone, the Engineer In-Charge shall certify the same in writing.
- The Employer will implement payment against Items No. 3 of the BOQ as per Clause 3.2 and payment against BoQ for item no. 2 will cease.
- No other incentive/claim whatsoever from the contractor will be entertained by the Employer for early completion of the dredging and/ or maintaining the designated depth at approach channel and turning circle.

3.2 Dredging - item no. 3 of BOQ

The payment for depth guaranteed maintenance dredging shall be made monthly to the contractor at the rate quoted by them for item no 3 of BOQ for maintaining the designed depth of 6.8m BCD. The employer shall release the above monthly payments after recovery of the amount, if any, as per Clause No. 4 and other the conditions of the Contract.

During the course of the contract, if it is not possible to carry out monthly survey due to bad weather conditions / other reasons due to extraordinary events or circumstance beyond human control such as an event described as act of God (such as a natural calamity) or the quadruplicate survey chart results technically found not realistic/satisfactory, for which the Contractor has to obtain a certificate in writing from the engineer-in-charge and the amount payable for that particular month will be 2/3rd of the amount due for that particular month. The balance 1/3rd amount will be paid whenever the contractor submits the result of a satisfactory survey carried out thereafter, subject to Clause No. 4.

However, in case of non-maintenance of 6.8m depth below CD, in any one month or subsequent months after initial period of Two (2) months where dredging has to be carried out to reach the threshold limit of 6.8m BCD from the existing level, relevant recoveries as per Clause No. 4 shall be applicable.

4. Compensation for not maintaining the target depths and widths

As per joint quadruplicate pre-survey sounding chart shows ruling shortfall is nil or predetermined. The successful bidder should maintain minimum depth 6.8m BCD of channel for maintenance dredging under guarantee depths and widths.

The dredging shall be carried out in such a way that the depths should not fall down below the pre dredging soundings and the same shall be maintained as per table above Ruling short fall statement shall be applicable from the 1st month and/or 1st bill after the completion of the works contemplated in item no. 2 of the BOQ.

The contractor shall carry out maintenance dredging in approach channel, turning circle Berth pockets and surroundings of Landing Pontoon to maintain the required depths/widths as indicated in the tender documents failing which the recovery of amount from the bills of the contractor for ruling shortfall in depths shall be made as per clause no. 2 from 1st Month of the date of commencement of the proposed maintenance dredging work (item nos.3 of BOQ).

For any reason whatsoever if the contractor is not able to maintain the required depth and width in the channel to the required depth and width approach channel, turning circle Berth pockets and surroundings of Landing Pontoon as

specified in Clause No. 2, the Employer shall be entitled to recover from the Contractor for such non-performance/failure an amount not exceeding the amount calculated on the basis for the non-performance based on the higher ruling short fall value determined on the basis of the joint Quadruplicate monthly soundings taken by the Contractor as provided in the Contract.

Penalty Terms for Ruling Shortfall in Depth

Ruling shortfall in depth (in metres)	Penalty as percentage of the monthly amount quoted for Item No. 3 of BoQ for every month of existence of non-performance / failure in approach channel, turning circle. Berth pockets and surroundings of Landing Pontoon
0.2	10%
0.3	15%
0.4	20%
0.5	25%
0.6	30%
0.7	35%
0.8	40%
0.9	45%
1.0	50%

Shortfall: -

Recovery of short fall will be considered as a specified depth of 6.8m below CD minus actual depths available in approach channel, turning circle Berth pockets and surroundings of Landing Pontoon. If the sounding depths available are more than the specified depths of 6.8m below CD it will be considered by restricting to the specified design depth of 6.8m below CD for calculating the short fall in depth.

Note: - In case regular monthly bill survey (which shall be carried out at 30±4-day interval) could not be conducted in any month(s), due to bad weather or any other reasons, the recovery for such month(s) will be made, at the same percentage of short fall in depth, in succeeding month, in which monthly bill surveys is conducted. However, recovery for the short fall in depth, in which monthly bill survey is carried out, will also be made.

The soundings will be rounded off to 0.1m. The fraction of soundings/values less than 0.05 will be rounded down and the fraction of soundings/values equal to or greater than 0.05 will be rounded up. The short fall shall be determined as per the following formula: -

Ruling short fall is the short fall value such that the number of shortfall values including the grid points where soundings are missing which exceeds this value shall be 1% of the total number of shortfall values of all soundings in the channel.

An example for calculation of Ruling short fall is furnished as under:

Total number of grid points where soundings are to be taken= $G=1000$

Number of grid points where soundings are taken = N , (N should be equal to 95% of G or more for acceptance of the sounding chart by the EMPLOYER).
 $=998$

The number of grid points for which soundings are missing (M) is calculated as
 $M=G-N=1000-998=2$

Ruling Short fall shall be $\{[(G/100)+1]-M\}$ th value $=1000/100+1-2=9$ th

For example, following are the short fall values (i.e. 6.8m-actual depth as per the quadruplicate monthly survey chart) in the descending order.

1st grid point 2.5m
2nd grid point 2.2m
3rd grid point 2.1m
4th grid point 1.9m
5th grid point 1.6m
6th grid point 1.2m
7th grid point 1.0m
8th grid point 0.8m
9th grid point 0.6m
10th grid point 0.3m
11th grid point 0.2m
12th grid point 0.1m

i.e. from the above, the ruling short fall will be 0.6m. and the employer shall recover the compensation for the ruling short fall as per the percentage shown in the tender document.

The recovery of every month ruling short falls if any is applicable from the 1st RA bill for item no.3 of BoQ to 9th month or up to pre-final payment in case of any extension granted by the employer. However, the recovery of final month will be applicable as under.

At the end of the contract period, the contractor has to hand over the dredging area to the employer with the width and depth as specified under Clause No. 2, failing which penalty for the left- over quantity shall be made at Rs.1500/- per cu. m, based on the final quadruplicate / quintuplicate survey result. The recovery will be in lieu of the penalty recoverable for shortfall due at the time of the final survey to be conducted at the end of the 10th month (for item no. 3 of BOQ) or at the final month of the extended period, if any granted by employer.

Note-1: The grids where sounding is missing will be recorded first in the descending order table, meaning that the shortfall values corresponding to these grids are considered to be higher than the highest short fall value of the soundings taken.

If the ruling shortfall in depths exceeds more than 1.0 m the contractor shall be given one-month notice to improve the depths failing which the employer may terminate the contract and the balance pending work may be executed by the employer at the risk and cost of the contractor.

5. Mobilization and Demobilization Fees

Maximum of 75% of the total quoted price (contract price) will be payable towards Mobilization/Demobilization charges.

Out of the total quoted rate for Mobilization and Demobilization in the BOQ by the contractor, 75% of the amount is payable on completion of total mobilization of dredgers and other ancillary equipment and upon completion of at least 5% of the total dredging quantity. The balance 25% will be paid only after Demobilization.

Demobilization fees shall be paid only after site clearance and demobilization of the dredgers and marine spread and issue of Taking over certificate. However, dredger can be released on satisfaction of ENGINEER / EMPLOYER regarding completion of work.