

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

TENDER DOCUMENT FOR

“SUPPLY OF WORM REDUCERS FOR 65T HOIST OF DEO SPILLWAY GATE, 18T HOIST OF HALADIA SPILLWAY GATES, 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION PROJECT & 25T GANTRY CRANE OF ANANDAPUR BARRAGE PROJECT”

The tender document comprises of the following:

1)	Tender call notice No.OCC/CWS/PROC/HSP-06/ 26/2019-20 Dated 14.11.2019	01 (One) sheet
2)	Terms and conditions	04 (Four) sheets
3)	Technical Specifications & Data	05 (Five) sheets
4)	Price schedule	01 (One) sheet

Total:		11 (Eleven) sheets

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

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

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

Tender Call Notice No.OCC/CWS/PROC/HSP-06/26/19-20 Dtd.14.11.2019

Sealed tenders in conformity with the terms, conditions and technical specifications in tender documents are invited from reputed manufacturers or their authorized dealers / traders for **"SUPPLY OF WORM REDUCERS FOR 65T HOIST FOR DEO SPILLWAY GATE, 18T HOIST OF HALADIA SPILLWAY GATES, 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION PROJECT & 25T GANTRY CRANE FOR ANANDAPUR BARRAGE PROJECT"** as per details below:

Cost of tender document (Non-refundable)	Sale of tender Document		Earnest money deposit (EMD) required	Receipt & opening of technical bid of tender	Opening of price schedule bid of tender
` 6000/- GST @ 12% ` 6720/- by hand. & ` 6820/- by Regd. Post/ courier	From 15.11.2019	To 30.11.2019 up to 1.00 PM	1(One)% of the total quoted value	Up to 3.00 PM & 3.30 P.M. on 30.11.2019	At 4.00 PM on 30.11.2019

The tender document can be purchased by the interested reputed manufacturers or their authorized dealers / traders by hand from the office of the undersigned on deposit of cost of tender document i.e. ` 6000/- plus GST @ 12% amounting to ` 6720/- in cash or in shape of A/c. payee demand draft drawn in favour of "Odisha Construction Corporation Limited- Project Account" on any Nationalised Bank/ Scheduled Bank payable at Bhubaneswar (Non-refundable) and production of attested copies of the following documents and verification thereof by the undersigned. The tender document can also be obtained by the interested reputed manufacturers or their authorized dealers/ traders by registered post, speed post/ courier on sending the cost of tender document i.e. ` 6000/- plus GST @ 12% and postage charges of ` 100/- amounting to ` 6820/- in shape of A/c. payee demand draft drawn as stated above and attested copies of the following documents and verification thereof by the undersigned. The undersigned will not be responsible for any kind of delay by the postal/courier authorities.

- 1) Valid GST registration certificate
- 2) PAN Card
- 3) Credentials in support of supply of similar items of similar magnitude and satisfactory performance thereof.
- 4) Authorised distributorship / stockists/ dealership certificate, if not a manufacturer.

The tender document can also be downloaded from our Website www.odishaconstruction.com or Govt. of Odisha website www.odishagov.nic.in to submit the tender (**Bidders are requested to visit our website regularly for any changes since it will not be published in news paper again**). However, the cost of tender document i.e. ` 6,000/- plus GST @ 12% amounting to ` 6720/- in shape of A/c payee demand draft as stated above in favour of "Odisha Construction Corporation Limited- Project Account" on any Nationalised Bank/ Scheduled Bank payable at Bhubaneswar (Non-refundable) along with attested photo copies of all above documents should be submitted while submitting the tender in Envelope-I. Otherwise, the tender will be cancelled. OCCL will not be responsible for missing of any page while downloading. If there will be a public holiday on the last date of sale of tender document and receipt & opening of the tender as specified above, the tender document will be sold and tender will be received & opened on the next working day at the same time and venue.

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

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

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

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

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

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

TERMS AND CONDITIONS OF TENDER FOR

“SUPPLY OF WORM REDUCERS FOR 65T HOIST FOR DEO SPILLWAY GATE, 18T HOIST OF HALADIA SPILLWAY GATES, 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION PROJECT & 25T GANTRY CRANE FOR ANANDAPUR BARRAGE PROJECT”.

1. Reputed manufacturers or their authorized dealers / traders having supplied similar item of similar magnitude earlier and satisfactorily accepted by the clients will be eligible to participate in the tender. The copies of purchase orders, credentials, certificates etc. in support of similar supply and satisfactory performance thereof shall be furnished along with the tender.
2. The quotationer should submit Earnest Money Deposit (EMD) @ 1(One)% of the total quoted value along with the quotation in shape of Demand Draft / Banker's Cheque / NSC/KVP or Fixed Deposits on any Nationalised Bank duly pledged in favour of “Odisha Construction Corporation Ltd - Project Account” payable at Bhubaneswar. The quotations received without EMD will be out rightly rejected. EMD of the unsuccessful quotationers will be released only after finalization of the quotation.
3. The tenderer should furnish technical literature and catalogues showing all dimensions and details in support of specifications of Worm Reducer quoted by them.
4. Tender should be submitted in two bid system in two separate sealed covers and both will be submitted in a single sealed outer cover subscribing in bold letters as **“TENDER FOR “SUPPLY OF WORM REDUCERS FOR 65T HOIST FOR DEO SPILLWAY GATE, 18T HOIST OF HALADIA SPILLWAY GATES, 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION PROJECT & 25T GANTRY CRANE FOR ANANDAPUR BARRAGE PROJECT”** and also date of opening of tender. The name and address of the tenderer should not be written on outer cover. Only the name and address of the purchaser should be written on the outer cover.
5.
 - i) The first envelope superscribing in bold letters as **“TECHNICAL BID”** should contain the following:
 - a. EMD of 1(One)% of quoted value as per clause- 2 above.
 - b. Attested copy of valid GST Registration certificate. The tenderer will mention his GST Regn. No./ GSTIN No. in his tender clearly without which the tender will not be taken into consideration..
 - c. Attested copy of PAN Card.
 - d. Attested copies of purchase orders, credentials, certificates etc. in support of supply of similar item of similar magnitude and satisfactory performance thereof.
 - ii) Complete tender document in original including terms and conditions but without detailed specifications and price schedule duly signed on each page by the tenderer or his/their power of attorney holder. In case of power of attorney holder, an attested copy of power of attorney should be furnished.

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

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

6. The tender document can be purchased by the interested reputed manufacturers or their authorized dealers / traders by hand from the office of the undersigned from **15.11.2019** to **30.11.2019** (up to **1.00 PM**) during office hours on deposit of cost of tender document i.e. `6000/- plus GST @ 12% amounting to ` 6720/- in cash or in shape of A/c. payee demand draft drawn in favour of "Odisha Construction Corporation Limited- Project Account" on any Nationalized Bank/Scheduled Bank payable at Bhubaneswar (non-refundable) and production of attested copies of the following documents and verification thereof by the undersigned. The tender document can also be obtained by the interested reputed manufacturers or their authorized dealers / traders by registered post/speed post/courier on sending the cost of tender document i.e. `6000/- plus GST @ 12% and postage charges of `100/- amounting to ` 6820/- in shape of A/c. payee demand draft drawn in favour of "Odisha Construction Corporation Limited - Project Account" on any Nationalized Bank/Scheduled Bank payable at Bhubaneswar (non-refundable) and sending attested copies of the following documents and verification thereof by the undersigned.
- Valid GST registration Certificate.
 - PAN Card
 - Credentials in support of supply of similar items of similar magnitude and satisfactory performance thereof.
 - Authorised distributorship / stockists/ dealership certificate, if not a manufacturer.
7. The tender document can also be downloaded from our Website www.odishaconstruction.com or Govt. of Odisha website www.odishagov.nic.in to submit the tender (**Bidders are requested to visit our website regularly for any changes since it will not be published in news paper again**). However, the cost of tender document i.e. `6000/- plus GST @ 12% amounting to ` 6720/- in shape of A/c. payee demand draft, as stated above in favour of "Odisha Construction Corporation Limited - Project Account" on any Nationalized Bank/ Scheduled Bank payable at Bhubaneswar (non-refundable) along with attested photo copies of all above documents should be submitted, while submitting tender in Envelope-I, otherwise, the tender will be cancelled. OCCL will not be responsible for missing of any page while downloading.
8. The tenders will be received up to **3.00 PM** on **30.11.2019** and **TECHNICAL BID** will be opened in the office of the undersigned on the same day at **3.30 PM** in presence of the tenderers or their authorized representatives, if they so desire. If there will be a public holiday on the last date of sale of tender document and receipt & opening of the tenders as specified above, the tender document will be sold and tenders will be received & opened on the next working day at the same time and venue.
9. The undersigned will not be responsible for any kind of delay in receipt of tenders by the postal/ courier authorities.

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

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

10. The **PRICE SCHEDULE BID** will be opened on **30.11.2019** at **4.00 PM**. Then the documents in the first envelope submitted by the tenderers will be scrutinized preliminarily on the spot. The second envelope of the valid eligible tenders after preliminary scrutiny of the documents in the first envelope will be opened on the same day immediately subject to fulfilling the requirements mentioned in the tender schedule.
11. The Single Reduction Worm Reducer shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of use, whichever is earlier. Guarantee certificate in this regard shall accompany with supply.
12. Single Reduction Worm Reducer must be supplied strictly confirming to relevant details specifications and technical data along with the tender.
13. The tenderer should quote appropriate taxes with the offer.
14. Manufacturers test certificate of Single Reduction Worm Reducer as per details specification and technical data must be provided along with supply. The Single Reduction Worm Reducer shall be inspected at the time of receipt. In case of any defect noticed during the guarantee period the same shall be replaced / rectified immediately by the manufacturer free of cost.
15. The tenderer shall quote their rates F.O.R. OCCL Store, Central Workshop, Rasulgarh, Bhubaneswar-10 (Odisha) inclusive of P & F, transportation, transit insurance, handling charges, unloading charges, GST as applicable etc. should be indicated separately besides the basic price per each in the tender paper strictly in the detailed specifications and price schedule format. All columns and lines of the price schedule should be filled in properly without leaving any column blank.
16. Pre-delivery inspection (P.D.I) before despatch of the materials will be made at the manufacturer's works by the authorized representative of the purchaser / client / third party for which the manufacturer should intimate in writing for P.D.I. 10 days in advance regarding readiness for P.D.I
17. The rates and amounts should be quoted both in figures and words in the price schedule. Any correction or overwriting in the specification and price schedule should be duly certified by the tenderer or his power of attorney holder. In case of any mismatch in figures and words, the rates in words will be considered. In case of any mismatch in rates and amount, the rate will be considered.
18. The successful tenderer shall have to furnish a performance Bank guarantee for 10% value of materials within 30 (Thirty) days from the date of issue of purchase order. The Bank guarantee shall be released after completion of guarantee period.

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

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

19. 90% payment will be made within 30 (Thirty) days after receipt, verification and acceptance of the complete materials along with bill, test certificate, guarantee certificate and other documents. No advance payment shall be made under any circumstances. Balance 10% will be released after 18 months of supply (or) 12 months from the date of use whichever is earlier. However, if a performance bank guarantee is received for 10% of total cost, the same shall be released within 60 (Sixty) days from the date of receipt of materials.
20. The purchaser reserves the right to forfeit & encash the performance Bank guarantee in full in case any defective found or not replaced by the supplier within a suitable time fixed by the purchaser. Any repair to the defective materials shall be made only after approval of the purchaser. In this connection, the decision of purchaser is final and binding on the tenderer / supplier.
21. Price escalation will not be allowed under any circumstances. The quoted rates shall remain firm till execution of the work order.
22. The validity of the offer should be for a period of 120 (One hundred twenty) days from the date of opening of the tender.
23. The complete ordered quantity is to be supplied within 90 (Ninety) days from the date of issue of the purchase order, failing which the order is liable for cancellation without assigning any reason thereof. In case of cancellation of the order the EMD will be forfeited. In case of any delay in supply of material beyond the delivery schedule whatever may be the reason, supplier shall be liable to pay L.D. @ 0.5% (Half percent) of the total order value per week of delay or part thereof subject to a maximum of 5% (Five percent) of the total order value. Thereafter the purchase order will be cancelled with the discretion of purchaser.
24. Conditional offers with deviations will not be accepted. Those, who do not agree to the terms and conditions regarding payments, delivery and others, need not quote.
25. The authority reserves the right to accept/reject any or all quotations without assigning any reason thereof.
26. Any dispute arising out of this tender or order thereof is to be settled in proper court under the jurisdiction of Odisha High Court at Cuttack or Courts under the jurisdiction of Odisha High Court at Bhubaneswar only.

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

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

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

SPECIFICATION & PRICE SCHEDULE FOR “SUPPLY OF WORM REDUCERS FOR 65T HOIST FOR DEO SPILLWAY GATE, 18T HOIST OF HALADIA SPILLWAY GATES, 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION PROJECT & 25T GANTRY CRANE FOR ANANDAPUR BARRAGE PROJECT” VIDE TENDER CALL NOTICE NO.OCC/CWS/PROC.HSP-06/ 26 /19-20 DATED 14.11.2019 DUE ON 30.11.2019										
Sl. No.	Description	Quantity Reqd.	Make	Rate per each					Total amount in ` for full quantity	
				Basic price per each	P&F, Trans., transit Ins. & handling charges, incidental charges etc.	GST as applicable	Total in figures	Total in words	In figures	In words
65T HOIST FOR DEO SPILLWAY GATE										
1	70:1 single reduction worm reducer for input 11KW at 725rpm having input shaft under the output shaft suitable for rotation in both direction unit size-12 SFU at 750 rpm-ELECON make or equivalent(Std.) (Annexure-I)	05 nos. (Five)								
18T HOIST OF HALADIA SPILLWAY GATES										
2	70:1 single reduction worm reducer for input 3.7KW at 720rpm having input shaft under the output shaft suitable for rotation in both direction unit size-7 SNU-U at 750 rpm-ELECON make or equivalent(Std.) (Annexure-II)	05 nos. (Five)								
25T GANTRY CRANE (HOIST) OF RUKURA IRR. PROJECT										
3	70:1 single reduction worm reducer suitable for input of 12Kw at 730 RPM with output shaft at both side unit GU-1000 at 1000 rpm, premium make or equivalent (Std.) (Annexure-III)	01 no. (One)								
25T GANTRY CRANE (LONG TRAVEL) OF RUKURA IRR. PROJECT										
4	70:1 single reduction worm reducer, suitable for input 8H.P. at 968 RPM with extended shaft of 289mm long as per annexure-IVA ,(One No.- Left hand & One No. -Right hand extension) unit size - GO-700 at 1000 rpm, premium make or equivalent (Std.) (Annexure-IV)	02 nos. (Two)								
25T GANTRY CRANE FOR ANANDAPUR BARRAGE PROJECT										
5	70:1 single reduction worm reducer, suitable for input 6H.P. at 950 RPM with extended shaft as per Annexure-VA,(One No.- Left hand & One No. -Right hand extension) unit size - GO-700, premium make or equivalent (Std.)(Annexure-V)	04 nos. (Four)								

N.B:- Provide product catalogue with tender document.

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

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

SPECIFICATION FOR SINGLE REDUCTION WORM REDUCER

Name of project	: DEO IRRIGATION PROJECT
Name of work	: 65T Rope Drum Hoist to operate Spillway Radial Gate
Total Nos. required	: 05 (Five)
Make	: 12 SFU at 750 rpm ELECON make or equivalent.

DATA FOR REDUCTION GEAR BOX

- | | |
|--|--|
| 1. Required reduction ratio | : 70:1 |
| 2. (a) Type of Prime Mover | : AC 3Ø, TEFC Squirrel Cage Induction Motor |
| (b) H.P. rating and speed | : Input Motor 11Kw. at 725 rpm |
| 3. Details of driven machine and Actual power required | : End reduction gear unit for rope drum hoist.
Actual power required. is 10.31 Kw. |
| 4. Type of drive employed between | |
| (a) Prime mover & reducer | : Electromagnetic brake with flexible brake drum coupling. |
| (b) Reducer & driven M/C | : The worm Reducer output shaft is connected to the line shaft of the End Reduction Gear assembly. |
| 5. No. of hours/day the gear unit will be in operation | : One hour |
| 6. Ambient condition | : Outdoor installation with highly humid atmosphere. |
| 7. Handling arrangement of gear unit and shaft arrangement | : Input shaft arranged below the output shaft. The output shaft is extended to both sides of the Worm Reducer. |
| 8. Direction of rotation | : Suitable for both directions of rotation |
| 9. Service factor (minimum) | : 1 (One). |
| 10. Efficiency of Reducer | |
| (a) Running - | : not less than 76.15% |
| (b) Starting - | : not less than 47% |
| 11. Information/Literature to be furnished with the offer. | : (a) Size of unit offered with rating and detail dimensions of gear box mounting, clearance & shaft ends are to be furnished with the offer.
(b) Oil capacity and grade of oil to be filled.
(c) Weight of the Reducer.
(d) Detail literature shall accompany with the offer.
(e) Starting and running efficiencies |

COUNTER SIGNATURE

SIGNATURE

Annexure - 8

ODISHA CONSTRUCTION CORPORATION LIMITED
GOPABANDHU NAGAR, UNIT-8, BHUBANESWAR-751012

SPECIFICATION FOR SINGLE REDUCTION WORM REDUCER

Name of project	: SUBERNAREKHA IRRIGATION PROJECT
Name of work	: 18T Rope Drum Hoist to operate Haladia Spillway Gate
Total Nos. required	: 05 (Five)
Make	: 7 SNU-U at 750 rpm ELECON make or equivalent.

DATA FOR REDUCTION GEAR BOX

- | | |
|--|--|
| 1. Required reduction ratio | : 70:1 |
| 2. (a) Type of Prime Mover | : AC 3Ø, TEFC Squirrel Cage Induction Motor |
| (b) H.P. rating and speed | : Input Motor 3.7Kw. at 720 rpm |
| 3. Details of driven machine and
Actual power required | : End reduction gear unit for rope drum hoist.
Actual power required. is 2.894 Kw. |
| 4. Type of drive employed between
(a) Prime mover & reducer | : Electromagnetic brake with flexible brake drum coupling. |
| (b) Reducer & driven M/C | : The worm Reducer output shaft is connected to the line
shaft of the End Reduction Gear assembly. |
| 5. No. of hours/day the gear
unit will be in operation | : One hour |
| 6. Ambient condition | : Outdoor installation with highly humid atmosphere. |
| 7. Handling arrangement of gear
unit and shaft arrangement | : Input shaft arranged below the output shaft. The output shaft
is extended to both sides of the Worm Reducer. |
| 8. Direction of rotation | : Suitable for both directions of rotation |
| 9. Service factor (minimum) | : 1 (One). |
| 10. Efficiency of Reducer | |
| (a) Running - | : not less than 71.89% |
| (b) Starting - | : not less than 43% |
| 11. Information/Literature to
be furnished with the offer. | : (a) Size of unit offered with rating and detail dimensions
of gear box mounting, clearance & shaft ends are to be
furnished with the offer.
(b) Oil capacity and grade of oil to be filled.
(c) Weight of the Reducer.
(d) Detail literature shall accompany with the offer.
(e) Starting and running efficiencies |

COUNTERSIGNATURE

SIGNATURE

Annexure - III

ODISHA CONSTRUCTION CORPORATION LIMITED
GOPABANDHU NAGAR, UNIT-8, BHUBANESWAR - 751012

SPECIFICATION FOR SINGLE REDUCTION WORM REDUCER

Name of project : RUKURA IRRIGATION PROJECT
Name of work : Rope Drum Hoist for 25T Gantry Crane.
Total Nos. required : 1 (One)
Make : GU 1000 of Premium make or equivalent.

DATA FOR REDUCTION GEAR BOX

1. Required reduction ratio : 70:1
2. (a) Type of Prime Mover : AC 3Ø, TEFC Slipring Motor
(b) H.P. rating and speed : Input Motor – 12 KW/16 HP at 730 rpm
3. Details of driven machine and Actual power required : End reduction gear unit for Rope Drum Hoist.
Actual power required is 13.05 HP.
4. Type of drive employed between
(a) Prime mover & reducer : Electromagnetic brake with flexible brake drum coupling.
(b) Reducer & driven M/C : The Worm Reducer output shaft is connected to the line shaft of the End Reduction Gear assembly.
5. No. of hours/day the gear unit will be in operation : Under three hours.
6. Ambient condition : Outdoor installation with highly humid atmosphere.
7. Handing arrangement of gear unit and shaft arrangement : Input shaft arranged below the output shaft. The output shaft is extended to both sides of the Worm Reducer.
8. Direction of rotation : Suitable for both directions of rotation.
9. Service factor (minimum) : 1 (One)
10. Efficiency of Reducer
(a) Running - : not less than 75.01 %
(b) Starting - : not less than 46 %
11. Information/Literature to be furnished with the offer. : (a) Size of unit offered with rating and detail dimensions of gear box mounting, clearance & shaft ends are to be furnished with the offer.
(b) Oil capacity and grade of oil to be filled.
(c) Weight of the Reducer.
(d) Detail literature shall accompany with the offer.
(e) Starting and running efficiencies

COUNTERSIGNATURE

SIGNATURE 27.09.2018

ODISHA CONSTRUCTION CORPORATION LIMITED
GOPABANDHU NAGAR, UNIT-8, BHUBANESWAR-751012

SPECIFICATION FOR SINGLE REDUCTION WORM REDUCER

Name of project : RUKURA IRRIGATION PROJECT
Name of work : Long Travel Mechanism for 25T Gantry Crane.
Total Nos. required : 2 (two)
Make : GO 700 of Premium make or equivalent.

DATA FOR REDUCTION GEAR BOX

1. Required reduction ratio : 70:1
2. (a) Type of Prime Mover : AC 3Ø, TEFC Slipring Motor 568
(b) H.P. rating and speed : Input Motor - 4.5 KW / 6 HP at 950 rpm
3. Details of driven machine and Actual power required : Gantry Long travel.
Actual power required is 4.504 HP.
6.931
4. Type of drive employed between
(a) Prime mover & reducer : Electromagnetic brake with flexible brake drum coupling.
(b) Reducer & driven M/C : The worm Reducer output shaft is connected to the driving wheel of the Gantry crane through idler gear.
5. No. of hours/day the gear unit will be in operation : Under three hours.
6. Ambient condition : Outdoor installation with highly humid atmosphere.
7. Handing arrangement of gear unit and shaft arrangement : Input shaft arranged above the output shaft. The output shaft is extended to one side (One no.- Left hand & One no.- Right hand extension) of the Worm Reducer.
8. Direction of rotation : Suitable for both directions of rotation.
9. Service factor (minimum) : 1 (One).
10. Efficiency of Reducer
(a) Running - : not less than 70.2 %
(b) Starting - : not less than 43 %
11. Information/Literature to be furnished with the offer. : (a) Size of unit offered with rating and detail dimensions of gear box mounting, clearance & shaft ends are to be furnished with the offer.
(b) Oil capacity and grade of oil to be filled.
(c) Weight of the Reducer.
(d) Detail literature shall accompany with the offer.
(e) Starting and running efficiencies

COUNTERSIGNATURE

SIGNATURE

115/c
Annexure-V

ODISHA CONSTRUCTION CORPORATION LIMITED
GOPABANDHU NAGAR, UNIT-8, BHUBANESWAR-751012

SPECIFICATION FOR SINGLE REDUCTION WORM REDUCER

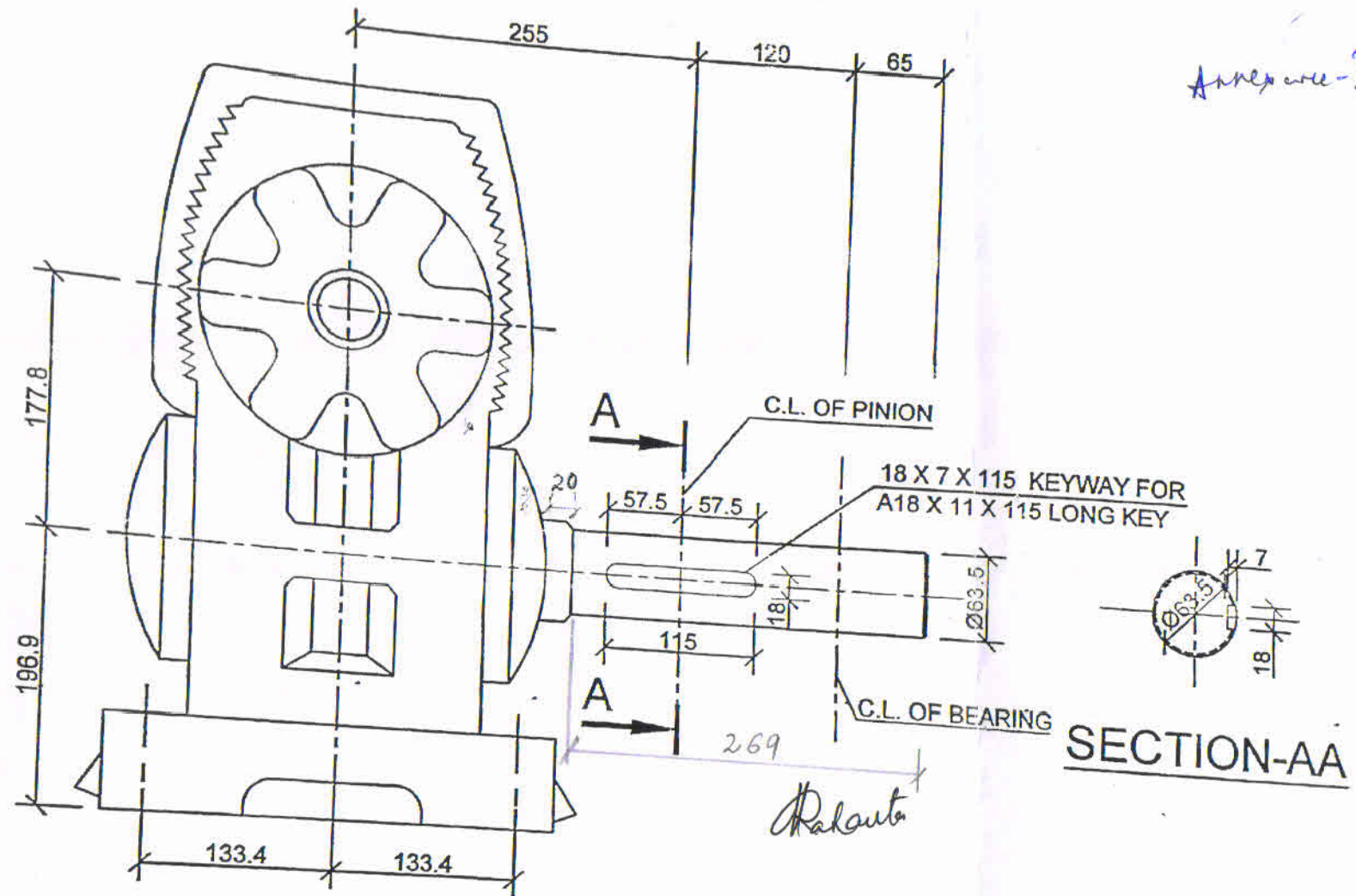
Name of project	: ANANDPUR BARRAGE PROJECT
Name of work	: Long Travel Mechanism for 25T Gantry Crane.
Total Nos. required	: 4 (four)
Make	: GO 700 of Premium make or equivalent.

DATA FOR REDUCTION GEAR BOX

- | | |
|---|--|
| 1. Required reduction ratio | : 70:1 |
| 2. (a) Type of Prime Mover | : AC 3Ø, TEFC Slipring Motor |
| (b) H.P. rating and speed | : Input Motor - 4.5KW/6 HP at 950 rpm |
| 3. Details of driven machine and Actual power required | : Gantry Long travel.
Actual power required is 4.504 HP. |
| 4. Type of drive employed between (a) Prime mover & reducer | : Electromagnetic brake with flexible brake drum coupling. |
| (b) Reducer & driven M/C | : The worm Reducer output shaft is connected to the driving wheel of the Gantry crane through idler gear. |
| 5. No. of hours/day the gear unit will be in operation | : Under three hours. |
| 6. Ambient condition | : Outdoor installation with highly humid atmosphere. |
| 7. Handing arrangement of gear unit and shaft arrangement | : Input shaft arranged above the output shaft. The output shaft is extended to one side (One no.- Left hand & One no.- Right hand extension) of the Worm Reducer. |
| 8. Direction of rotation | : Suitable for both directions of rotation. |
| 9. Service factor (minimum) | : 1 (One) |
| 10. Efficiency of Reducer (a) Running - | : not less than 70.2 % |
| (b) Starting - | : not less than 43 % |
| 11. Information/Literature to be furnished with the offer. | : (a) Size of unit offered with rating and detail dimensions of gear box mounting, clearance & shaft ends are to be furnished with the offer.
(b) Oil capacity and grade of oil to be filled.
(c) Weight of the Reducer.
(d) Detail literature shall accompany with the offer.
(e) Starting and running efficiencies |


COUNTERSIGNATURE


SIGNATURE



WORM REDUCER EXTENDED SHAFT DETAILS

(FOR GO 700 PREMIUM MAKE WORM REDUCER)

TOTAL NOS. REQD.: 2 (TWO) (ONE NO.- LEFT HAND &
ONE NO.- RIGHT HAND EXTENSION)

LONG TRAVEL MECHANISM FOR
25T GANTRY CRANE FOR
ANANDAPUR BARRAGE PROJECT

OCCL