

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

**TENDER DOCUMENT FOR  
“SUPPLY OF ELECTROMAGNETIC BRAKES FOR 65T ROPE DRUM HOIST FOR SPILWAY GATE  
OF DEO IRRIGATION PROJECT, 18T ROPE DRUM HOIST FOR BARRAGE OF HALADIA  
SPILLWAY PROJECT & 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF  
RUKURA IRRIGATION PROJECT”**

The tender document comprises of the following:

1)	Tender call notice No.OCC/CWS/PROC/HSP-03/ 84/18-19 dated 19.02.2019	01 (One) sheet
2)	Terms and conditions	03 (Three) sheets
3)	Technical Specifications & Data	04 (One) sheet
4)	Price schedule	01(One) sheet
----- Total:		09 (Nine) 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-03/84/18-19 Dtd.19.02.2019**

Sealed tenders in conformity with the terms, conditions and specifications in tender documents are invited from reputed manufacturers or their authorized dealers / traders for **“SUPPLY OF ELECTROMAGNETIC BRAKES FOR 65T ROPE DRUM HOIST FOR SPILLWAY GATE OF DEO IRRIGATION PROJECT, 18T ROPE DRUM HOIST FOR BARRAGE OF HALADIA SPILLWAY PROJECT & 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION 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
` 4000/- GST @ 12% ` 4480/- by hand. & ` 4580/- by Regd. Post/ courier	From <b>20.02.2019</b>	To <b>02.03.2019</b> up to <b>1.00 PM</b>	1(One)% of the total quoted value	Up to <b>3.00 PM &amp; 4.00 P.M.</b> on <b>02.03.2019</b>	At <b>4.00 PM</b> on <b>02.03.2019</b>

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. ` .4000/- plus GST @ 12% amounting to ` .4480/- 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. ` .4000/- plus GST @ 12% and postage charges of ` .100/- amounting to ` .4580/- 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.

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.

- 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/stockist/dealership certificate, if not a manufacturer

The tender document can also be downloaded from our Website [www.odishaconstruction.com](http://www.odishaconstruction.com) 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. ` .4000/- plus GST @ 12% amounting to ` .4480/- 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 ELECTROMAGNETIC BRAKES FOR 65T ROPE DRUM HOIST FOR SPILLWAY GATE  
OF DEO IRRIGATION PROJECT, 18T ROPE DRUM HOIST FOR BARRAGE OF HALADIA  
SPILLWAY PROJECT & 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF  
RUKURA IRRIGATION PROJECT”**

1. Reputed manufacturers or their authorized dealers / traders having supplied similar item 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 tenderer should submit Earnest Money Deposit (EMD) @ 1(One)% of the total quoted value along with the tender in shape of account payee demand draft drawn in favour of “Odisha Construction Corporation Ltd - Project Account” on any Nationalised Bank/ Scheduled bank payable at Bhubaneswar. The tenders received without EMD will be out rightly rejected. EMD of the unsuccessful tenderers will be released only after finalization of the tender.
3. The tenderer should furnish technical literature and catalogues showing all dimensions and details of the brake drum couplings in support of specifications of E.M. Brake 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 ELECTROMAGNETIC BRAKES FOR 65T ROPE DRUM HOIST FOR SPILLWAY GATE OF DEO IRRIGATION PROJECT, 18T ROPE DRUM HOIST FOR BARRAGE OF HALADIA SPILLWAY PROJECT & 25T GANTRY CRANE (HOIST & LONG TRAVEL) OF RUKURA IRRIGATION 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.
    - e. Complete tender document in original including terms and conditions but without detailed specifications and price schedule duly signed on each page by the tenderer or his/their power of attorney holder. In case of power of attorney holder, an attested copy of power of attorney should be furnished.
  - ii) Second envelope subscribing in bold letters “**SPECIFICATION AND PRICE SCHEDULE**” should contain detailed specifications and price schedule in original only duly filled in without leaving any column and line blank and signed on each page by the tenderer or his/their power of attorney holder.

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 **20.02.2019** to **02.03.2019** (up to **1.00 P.M**) during office hours on deposit of cost of tender document i.e. ` **4000/-** plus GST @ 12% amounting to ` **4480/-** 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. ` **4000/-** plus GST @ 12% and postage charges of ` **100/-** amounting to ` **4580/-** 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.
  - 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/stockist/dealership certificate, if not a manufacturer
7. The tender document can also be downloaded from our Website **www.odishaconstruction.com** 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. ` **4000/-** plus GST @ 12% amounting to ` **4480/-** 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 **02.03.2019** 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.
10. The **PRICE SCHEDULE BID** will be opened on **02.03.2019** 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 E.M. Brake 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. Manufacturers test certificate of E.M. Brake as per details specification and technical data must be provided along with supply. The E.M. Brake shall be inspected at the time of receipt. In case of any defect noticed during the guarantee period the same shall be replace/ rectified immediately by the manufacturer free of cost.
13. The tenderer should quote appropriate taxes with the offer.

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

14. 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 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.
15. 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.
16. 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.
17. 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.
18. 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 30 (Thirty) days from the date of receipt of materials.
19. 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.
20. Price escalation will not be allowed under any circumstances. The quoted rates shall remain firm till execution of the work order.
21. The validity of the offer should be for a period of 120 (One hundred twenty) days from the date of opening of the tender.
22. The complete ordered quantity is to be supplied within 60 (Sixty) 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.
23. 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.
24. The authority reserves the right to accept/reject any or all quotations without assigning any reason thereof.
25. 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)**

<b>PRICE SCHEDULE FOR</b>										
<b>“SUPPLY OF ELECTROMAGNETIC BRAKES FOR 65T ROPE DRUM HOIST FOR SPILWAY GATE OF DEO IRRIGATION PROJECT, 18T ROPE DRUM HOIST FOR BARRAGE OF HALADIA SPILLWAY PROJECT &amp; 25T GANTRY CRANE (HOIST &amp; LONG TRAVEL) OF RUKURA IRRIGATION PROJECT”</b>										
<b>VIDE TENDER CALL NOTICE No. OCC/CWS/PROC/HSP-03/84/18-19 Dated 19.02.2019 DUE ON 02.03.2019</b>										
Sl. No.	Description	Quantity Reqd.	Make	Rate per each					Total amount in ` for full quantity	
				Basic price	P&F, Trans., transit Ins. & handling charges, incidental charges etc.	GST as applicable	Total in figures	Total in words	In figures	In words
<b>DEO IRRIGATION PROJECT</b>										
1.	3ø,415V E.M. brake with drum dia. 300mm minimum braking torque of 49.50Kg.M at 100% rating flexible brake drum coupling complete with all other components, accessories etc. as per detailed technical specifications & data <u>Annexure-I</u> enclosed.	<b>05 nos. (Five)</b>	Sterling Control or equivalent							
<b>HALADIA SPILLWAY PROJECT</b>										
2	3ø,415V E.M. brake with drum dia. 150mm minimum braking torque of 13.6Kg.M at 100% rating flexible brake drum coupling complete with all other components, accessories etc. as per detailed technical specifications & data <u>Annexure-II</u> enclosed.	<b>05 nos. (Five)</b>	Sterling Control or equivalent							
<b>RUKURA IRRIGATION PROJECT</b>										
3	3Ø, 415 V ± 10% , E.M. brake with braking torque 49.5 Kg-M at 100% rating having Ø 300 mm flexible brake drum coupling complete with all other components, accessories etc. as per detailed technical specifications & data <u>Annexure-III</u> enclosed.	<b>01 no. (One)</b>	Sterling Control or equivalent							
4	1Ø, 220 V E.M. brake, braking torque 15 Kg-M at 100% rating with Ø 200 mm flexible brake drum coupling complete with all other components, accessories etc. as per detailed technical specifications & data <u>Annexure-IV</u> enclosed.	<b>02 nos. (Two)</b>	Sterling Control or equivalent							

**N.B:- Three phase and single phase catalogue (Both dimension & technical details) with G.A. drawing must be submitted along with the tender.**

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  
GOPABANDHU NAGAR, UNIT-8, BHUBANESWAR -751012

SPECIFICATION FOR E.M. BRAKE

Name of Project	: DEO IRRIGATION PROJECT
Name of work	: 65T Rope Drum Hoist to operate Spillway Radial Gate
Total Nos. required	: 05 (Five)
Make	: Model No. 13-12-21 of Sterling Control make or equivalent.

DATA FOR ELECTRO MAGNETIC BRAKE

1. Type	: Three phase A.C. Automatic outdoor type electro magnetic shoe type equipped with manual release with flexible drum coupling. The brake shall be automatically applied when the current is cut off and shall be equipped with hand lever to release the brake manually.
2. Operation	: Spring loaded, solenoid release (Brake is electrically released & spring applied for "FAIL SAFE" operation ) effective in both directions of rotation.
3. Motor	: 11 Kw., at 725 rpm. Bi-directional service.
4. Voltage & frequency	: 415 $\pm$ 10% volt, 50 HZ , 3 phase supply
5. Duty	: Continuous duty operations in highly humid atmospheric conditions.
6. Drum size	: Minimum 300 mm diameter flexible brake drum coupling.
7. Brake drum coupling	:(a) Brass cladded Rubber bush type flexible brake drum coupling with pilot bore of 30mm. (b) Effective locking device for the nut against unscrewing due to rotation of the drum in either direction shall be provided. (c) The coupling shall have provisions for both angular & off set misalignment of the coupled shafts.
8. Minimum braking Torque	: 49.50 kg-m at 100% rating.
9. Protection	: The terminals of brake magnet shall be protected from accidental contact. The connection and winding shall be effectively protected from mechanical damage.
10. Application	: To be used in the Rope drum hoist of 65T to Operate Spillway Radial Gate.
11. Location of the E.M.Brake	: Between motor and worm reducer.
12. Information literature to be furnished with tender	: Technical specification & literatures showing all dimensions & details of the EM brake & drum coupling shall accompany with the offer.

COUNTERSIGNATURE

SIGNATURE

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

SPECIFICATION FOR E.M. BRAKE

Name of Project	: SUBERNAREKHA IRRIGATION PROJECT
Name of work	: 18T Rope Drum Hoist to Haladia Spillway Gate
Total Nos. required	: 05 (Five)
Make	: Model No. 13-06-21 of Sterling Control make or equivalent.

DATA FOR ELECTRO MAGNETIC BRAKE

1. Type : Three phase A.C. Automatic outdoor type electro magnetic shoe type equipped with manual release with flexible drum coupling. The brake shall be automatically applied when the current is cut off and shall be equipped with hand lever to release the brake manually.
2. Operation : Spring loaded, solenoid release (Brake is electrically released & spring applied for "FAIL SAFE" operation ) effective in both directions of rotation.
3. Motor : 3.7 Kw., at 720 rpm. Bi-directional service.
4. Voltage & frequency : 415  $\pm$  10% volt, 50 HZ , 3 phase supply
5. Duty : Continuous duty operations in highly humid atmospheric conditions.
6. Drum size : Minimum 150 mm diameter flexible brake drum coupling.
7. Brake drum coupling : (a) Brass cladded Rubber bush type flexible brake drum coupling with pilot bore of 20mm.  
 (b) Effective locking device for the nut against unscrewing due to rotation of the drum in either direction shall be provided.  
 (c) The coupling shall have provisions for both angular & off set misalignment of the coupled shafts.
8. Minimum braking Torque : 13.6 kg-m at 100% rating.
9. Protection : The terminals of brake magnet shall be protected from accidental contact. The connection and winding shall be effectively protected from mechanical damage.
10. Application : To be used in the Rope drum hoist of 18T to Operate Haladia Spillway Gate
11. Location of the E.M.Brake : Between motor and worm reducer.
12. Information literature to be furnished with tender : Technical specification & literatures showing all dimensions & details of the EM brake & drum coupling shall accompany with the offer.

COUNTERSIGNATURE

SIGNATURE



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


SPECIFICATION FOR E.M. BRAKE

Name of Project : RUKURA IRRIGATION PROJECT  
 Name of work : Rope Drum Hoist for 25T Gantry Crane.  
 Total Nos. required : 1 (One)  
 Make : Model No. 13-12-21 of Sterling Control make or equivalent.

DATA FOR ELECTRO MAGNETIC BRAKE

1. Type : Three phase A.C. Automatic outdoor type, electro magnetic shoe type equipped with manual release with flexible drum coupling. The brake shall be automatically applied when the current is cut off and shall be equipped with hand lever to release the brake manually.
2. Operation : Spring loaded, solenoid release (Brake is electrically released & spring applied for "FAIL SAFE" operation ) effective in both directions of rotation.
3. Motor : 12 kw/16 HP at 40% CDF & 730 rpm reversing service.
4. Voltage & frequency : 415  $\pm$  10% volt, 50  $\pm$  3% Hz, 3 phase supply
5. Duty : Continuous duty operations in highly humid atmospheric conditions.
6. Drum size : Minimum 300mm diameter flexible brake drum coupling.
7. Brake drum coupling : (a) Brass clad rubber bush type flexible brake drum coupling with a pilot bore of 30mm straight shaft.  
 (b) Effective locking device for the nut against unscrewing due to rotation of the drum in either direction shall be provided.  
 (c) The coupling shall have provisions for both angular & off set misalignment of the coupled shafts.
8. Minimum braking Torque : 49.5 kg-m at 100% rating.
9. Protection : The terminals of brake magnet shall be protected from accidental contact. The connection and winding shall be effectively protected from mechanical damage.
10. Application : To be used in the Rope drum hoist of 25T Gantry Crane of Rukura Irrigation Project.
11. Location of the E.M.Brake : Between motor and worm reducer.
12. Information literature to be furnished with tender : Technical specification & literatures showing all dimensions & details of the E.M. brake & brake drum coupling shall accompany with the offer.

  
 COUNTERSIGNATURE

  
 SIGNATURE 12.7.09.2018

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

SPECIFICATION FOR E.M. BRAKE

Name of Project : RUKURA IRRIGATION PROJECT  
 Name of work : Long Travel Mechanism for 25T Gantry Crane.  
 Total Nos. required : 2 (two)  
 Make : Model No. 10-08-CR of Sterling Control make or equivalent.

DATA FOR ELECTRO MAGNETIC BRAKE

1. Type : Single phase A.C. Automatic outdoor type, electro magnetic shoe type equipped with manual release with flexible drum coupling. The brake shall be automatically applied when the current is cut off and shall be equipped with hand lever to release the brake manually.

2. Operation : Spring loaded, solenoid release (Brake is electrically released & spring applied for "FAIL SAFE" operation) effective in both directions of rotation.

3. Motor : 6 kw/8 HP, at 968 rpm reversing service.

4. Voltage & frequency : 220 ± 10% volt, 50 HZ, 1 phase supply

5. Duty : Continuous duty operations in highly humid atmospheric conditions.

6. Drum size : Minimum 200mm diameter flexible brake drum coupling.

7. Brake drum coupling : (a) Brass clad rubber bush type flexible brake drum coupling with a pilot bore of 20mm straight shaft.  
 (b) Effective locking device for the nut against unscrewing due to rotation of the drum in either direction shall be provided.  
 (c) The coupling shall have provisions for both angular & off set misalignment of the coupled shafts.

8. Minimum braking Torque : 15 kg-m at 100% rating.

9. Protection : The terminals of brake magnet shall be protected from accidental contact. The connection and winding shall be effectively protected from mechanical damage.

10. Application : To be used in the Long Travel Mechanism of 25T Gantry Crane of Rukura Irrigation Project.

11. Location of the E.M.Brake : Between motor and worm reducer.

12. Information literature to be furnished with tender : Technical specification & literatures showing all dimensions & details of the E.M. brake & brake drum coupling shall accompany with the offer.

COUNTERSIGNATURE

SIGNATURE 27.01.2018