



## **Irrigation & Waterways Directorate**

*Office of the Executive Engineer*

**Metropolitan Electrical Division**

Block-DF, Sector-I, 4th Floor, Jalasampad Bhawan,  
Salt Lake City, Kolkata -700091

Telephone No-033-23215609, Email Id : eemed.iwd@gmail.com

**Memo No. 1503/7E-6/2025-26**

**Dated: 11.09.2025**

### **[Invitation for Short Notice BUDGETARY QUOTATION]**

**sEOI-No. WBIW/EE/MED/s-EOI-01/2025-26**

**Critical Dates of this s-E.O.I:**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Date &amp; Time</b>
<b>01</b>	Start Date of Issuance of BUDGETARY QUOTATION Document	12.09.2025 AT 17:00 Hrs.
<b>02</b>	Last date of submission of Queries	15.09.2025 UPTO 17:00 Hrs.
<b>03</b>	Last Date of Issuance BUDGETARY QUOTATION Document	17.09.2025 UPTO 17:00 Hrs.
<b>04</b>	Last Date and time for Submission of BUDGETARY QUOTATION	18.09.2025 UPTO 15:00 Hrs.
<b>05</b>	Date of Opening of BUDGETARY QUOTATION	18.09.2025 AT 15:30 Hrs.

**NAME OF THE WORK:** Construction of an 800 cusec storm water drainage pumping station along with allied Civil and electro-mechanical work over Howrah drainage Canal at Nazirganj HMC P.S Sankrail, Dist: Howrah.[PART-B(Mechanical & Electrical)]

**EXECUTING DIVISION:** **Metropolitan Electrical Division**

**YEAR: 2025-26**

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# Expression of Interest

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## 1.0 Invitation for Short Notice Budgetary Quotation

The **Executive Engineer, Metropolitan Electrical Division** invites BUDGETARY QUOTATION from prospective bidders (OEMs, Contractors, Authorised dealers etc.) for the work “Construction of an 800 cusec storm water drainage pumping station along with allied Civil and electro-mechanical work over Howrah drainage Canal at Nazirganj HMC P.S Sankrail, Dist: Howrah.[PART-B(Mechanical & Electrical)].” The successful Bidder will carry out the scope of work in accordance with the specifications provided in a detailed Request for e-NIT document which will be brought out by the Executive Engineer, Metropolitan Electrical Division in later stage after obtaining administrative approval of the work. Now, Executive Engineer, Metropolitan Electrical Division seeks short notice for budgetary quotes from experienced, reputed Bidders for the above work, who meet the pre-qualification criteria specified in this document will be short-listed to have comparison of cost between various prospective bidder. In case of non compliance they may offer their own solution.

## 2.0 Description of the Project:

Construction of an 800 cusec storm water drainage pumping station along with allied Civil and electro-mechanical work over Howrah drainage Canal at Nazirganj HMC P.S Sankrail, Dist: Howrah.[PART-B(Mechanical & Electrical)]

### Location:

Nazirganj HMC P.S Sankrail, Dist: Howrah, West Bengal.

## 2.1 Introduction to the project:

Construction of an 800 cusec storm water drainage pumping station along with allied Civil and electro-mechanical.

## 3.0 Instructions to Bidders:

3.1 Bidders are advised to study all instructions, B.O.Q, forms, terms, requirements and other information in the Notice carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the short notice with full understanding of its implications.

**Rate should be quoted of all taxes and duties. Percentage of different taxes and duties shall also be mentioned.**

**\*\* Tentative GA drawing for sump & pumping station is attached. Bidders are requested to go through it and enclosed their suggestion with respect to the offered materials dimensions. So, that structural modification can be incorporated in the final drawing during tendering process.**

3.2 The response to this short notice should be full and complete in all respects. Failure to furnish all information or submission of a proposal not substantially responsive to the short notice documents in every respect will be at the bidder's risk and may result in rejection of its proposal.

3.3 For better understanding of work, brief description of work as per our preliminary assessment are given for better understanding of the project. In this stage bidder are requested to propose their work description, with quoting rate, so that in later stage under detailed NIT,

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complete scope of work and technical specification may be enclosed , so that bid may be evaluated on equal footing.

3.4 The Bidder shall be deemed to be fully conversant with the site conditions and the nature and complexity of the work to be undertaken and considering all eventualities which can arise before, during and after project execution.

3.5 **Bid validity shall be 120 days.**

### **4.0 Budgetary quotation proposal preparation, costs & related issues:**

4.1 The Bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by this office to facilitate the evaluation process, unless explicitly specified to the contrary.

Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

4.2 These Budgetary quotation are purely for estimation purpose and to know the present market rate and under no circumstance, It shall be construed as quotation for placing the supply order. For competitive bidding separate notice inviting Tender will be published

### **6.0 Responses to pre-bid queries and issue of corrigendum:**

The Nodal Officer notified by the Quotation issuing authority will endeavour to provide timely response to all queries. However, the department makes no representation or warranty as to the completeness or accuracy of any response made in good faith.

6.1 At any time prior to the last date for receipt of bids, Quotation inviting authority may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the BUDGETARY QUOTATION document by issuing a corrigendum.

6.2 The corrigendum (if any) & clarifications to the queries from all Bidders will be posted on the e-tender portal<<https://wbtenders.gov.in>>. Any such corrigendum shall be deemed to be incorporated into this BUDGETARY QUOTATION.

6.3 In order to afford prospective Bidders reasonable time in which to take the corrigendum into account in preparation of their bids, Purchaser may, at its discretion, extend the last date for the receipt of BUDGETARY QUOTATION Bids.

### **7.0 Right to terminate the Budgetary Quotation process:**

7.1 BUDGETARY QUOTATION issuing authority may terminate the BUDGETARY QUOTATION process at any time without assigning any reason. BUDGETARY QUOTATION issuing authority makes no commitments, expression or implied that this process will result in a business transaction with anyone.

### 8.0 Bid Submission Procedure

#### <Option 1: In case of Online Submission on e-Procurement portal>

Bidders should submit their responses to an BUDGETARY QUOTATION as per the procedure specified in the e- Procurement portal (specified URL) being used for this purpose.

The bidder must ensure that the bid is digitally signed by the Authorized Signatory of the bidding firm and has been duly submitted (freezed) within the submission timelines. The Department will in no case be responsible if the bid is not submitted online within the specified timelines.

All the pages of the Proposal document must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bidder's Proposal.

OR

#### <Option 2: In case of physical submission of bids at office of Executive Engineer >

- a. Bids shall be submitted in a single sealed envelope and superscripted<Name of the Work >and<Reference BUDGETARY QUOTATION No.>.This envelope should contain two hard copies of BUDGETARY QUOTATION proposal marked as “First Copy” and “Second Copy” and one soft copy in the form of a non-rewriteable Compact Disc (CD).CD media must be duly signed using a permanent pen/marker by the Bidder. Bids are to be dropped in tender box kept in the O/O **Executive Engineer, Metropolitan Electrical Division.**
- b. Bids shall consist of supporting proofs and documents as defined in the Pre- qualification section.
- c. Bidder shall submit all the required documents as mentioned in this document.
- d. Envelope should indicate clearly the name, address, telephone number, E-Mail ID and fax number of the Bidder.
- e. Each copy of the BUDGETARY QUOTATION should be a complete document and the document should be page numbered, must contain the list of contents with page numbers and shall be initialled by an authorized representative of the Bidder.
- f. Different copies must be bound separately.
- g. Bidder must ensure that the information furnished by him/her in respective CDs is identical to that submitted by him in the original paper bid document .In case any discrepancy is observed by the authority in the contents of the CDs and original paper bid documents, the information furnished on original paper bid document will prevail over the softcopy.
- h. BUDGETARY QUOTATION document submitted by the Bidder should be concise and contain only relevant information as required under the BUDGETARY QUOTATION Bids shall consist of supporting proofs and documents as defined in the Pre- qualification section.

### 9.0 Short listing criteria:

- 9.1 Purchaser will shortlist Bidders who meet the pre-qualification criteria mentioned in this BUDGETARY QUOTATION.
- 9.2 Any attempt by a bidder to influence the bid evaluation process may result in the rejection of its BUDGETARY QUOTATION proposal.

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### 10.0 Evaluation Process:

Technical Bid Evaluation Committees (TEC) in the Irrigation & Waterways Directorate for deciding for deciding on technical qualification of bidders for all works at the Technical Bid Evaluation Stage will be constituted in compliance with Department Memorandum No 10-W/2021-22, dated 07.10.2021.

### 11.0 Pre-qualification evaluation criteria:

Sl. No.	Basic requirement	Specific requirements	Documents required
1	Legal Entity	<ul style="list-style-type: none"><li>- Should be a company registered under the provisions of the Indian Companies Act, 2013 or a partnership firm registered under the Indian Partnership Act, 1936 or the Limited Liability Partnerships Act, 2008.</li><li>- Registered with the GST authorities.</li><li>- Should have been operating for the last three years.</li></ul>	<ul style="list-style-type: none"><li>- Certificate of incorporation / Partnership deed</li><li>- GST registration</li><li>Certificate of commencement of business (if applicable)</li></ul>
2	Board resolution/ Power of attorney in favour of authorised signatory	A board resolution OR power of attorney in the name of the person executing the bid, authorizing the signatory to commit the Bidder.	Board resolution; OR Power of attorney with appropriate supporting documents
3	Sales Turnover	Annual sales turnover generated from such type of work mentioned in this notice during each of the last three financial years.	Extracts from the audited balance sheet and profit & loss; OR Certificate from the statutory audit or
4	Technical Capability	Bidder must have successfully completed at least one following nature of work within last five years and value not less than 50% of their quoted value. “SITC of storm water/waste water pump house”	Completion certificates from the competent authority ; OR Work order + Self certificate of completion (Certified by the statutory auditor)

## Expression of Interest

5	Debarment	Debarment should used as a mandatory Pre-Qualification criterion to restrict organizations that have been either debarred by the tendering department for breach of ethical conduct or fraudulent practices, etc. As specified in Rule 151 of GFR.	Self Certified letter that the bidder(or any of its successor)is not in the active debarred list published by: a) Central/ State Public Procurement Portal; and
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### 12.0 Examination of Bids and Determination of Responsiveness:

The Bid evaluation committee (TEC) will evaluate whether each Bidder is satisfying the eligibility and qualifying criteria prescribed in the pre-qualification document and declare names of the qualified Bidders.

Prior to the details evaluation, the tender accepting authority will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. For that purpose a separate sheet for Guaranteed Technical Particulars are attached.

Assessment: The detailed assessment for pre-qualification shall be based on the following information submitted by the Bidder:

1. Data submitted in prescribed format given in tender documents.
  2. Bidder's techno-commercial proposals for carrying out the entire works in accordance with the specifications in this document.
- The techno-commercial submissions must principally demonstrate the adequacy of bidders' appreciation of the:
- The project
  - Design and detail engineering
  - The methods proposed for mobilization and establishment of site installation and for the timely completion, testing and commissioning and O&M of the project.
  - The arrangements for the logistic support for completion, testing and commissioning of all works of the project.--Requirements of the Department.

### 13.0 Format for letter of response:

To  
The Executive Engineer  
Metropolitan Electrical Division, Jalsampad Bhawan (4<sup>th</sup> Floor),  
Bidhannagar, Salt Lake,  
Kolkata: 700091.

Sub: - RESPONSE TO – BUDGETARY QUOTATION

Dear Sir,

We, the undersigned, offer the following information in response to the Expression of Interest sought by you vide your BUDGETARY QUOTATION No. .... Dated ....

1. We are duly authorized to represent and act on behalf of \_\_\_\_\_

## Expression of Interest

(Herein after the “respondent”)

2. We have examined and have no reservations to the BUDGETARY QUOTATION Document including Addenda No(s) \_\_\_\_\_

I/We understand that this BUDGETARY QUOTATION is intended for the work “Supply, installation, testing and commissioning of 02 (two) nos video conferencing system including SITC of 02 (two) nos 65” video display unit at Alipurduar Irrigation Division office and conference hall at Sech Niwas, Alipurduar

3.

Irrigation and Waterways Department, Govt. of West Bengal may float a separate Tender (based on their requirement), with all conditions like Eligibility Criteria, and our participation in this BUDGETARY QUOTATION does not guarantee any qualification to that tender.

4. We are attaching with this letter, the copies of original documents defining: -
- The Respondent’s legal status;
  - Its principal place of business;
  - Its place of incorporation (if respondents are corporations); or its place of registration (if respondents are cooperative institutions, partnerships, or individually owned firms);
  - Self-certified financial statements of Last three years, clearly indicating the financial turn over and net worth.
  - Copies of any project undertaken for the last 5 years, in any Govt. Department.
5. We shall assist Irrigation and waterways Department, Govt. of West Bengal or its authorized representatives to obtain further clarification from us, if needed.
- Executive Engineer of Metropolitan Electrical Division**, authorized representative, may contact the following nodal persons for further information on any aspects of the Response :

Sl No.	Contact Name	Address	Telephone	E-mail

6. This application is made in the full understanding that:
- Department Reserves the right to reject or accept any or all applications, cancel the BUDGETARY QUOTATION and subsequent bidding process without any obligations to inform the respondent about the grounds of same .
  - We confirm that we are interested in participating in the selection process through this BUDGETARY QUOTATION.
7. We certify that our turnover and net worth in the last three years is as under :

Financial Year	Turn over	Net worth

8. In response to the BUDGETARY QUOTATION, we hereby submitting the following details annexed to this application:



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9. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail. We also understand that in the event of any information furnished by us being found later to be incorrect or any material information having been suppressed, may delete our name from the list of potential bidders. We further understand that Irrigation and waterways Department, Govt. of West Bengal will give first preference to the applicants considered relevant for the purpose.

Yours sincerely,

(Sign)

Name

In the Capacity of

Duly authorized to sign

The response for and on behalf of

Encl: B.O.Q format.

Sd/-  
Executive Engineer  
Metropolitan Electrical Division  
I & W Dte., Govt. of West Bengal

**Memo No: 1503/1(3)/7E-6/2025-26**

**Date: 11.09.2025**

Copy Submitted for information and kind necessary action to :-

1. The Chief Engineer, Mechanical & Electrical, I&W Directorate, 2nd Floor, Jalasampad Bhawan, Govt of West Bengal.
2. The Superintending Engineer, Mechanical & Electrical Circle, I&W Directorate, 6th Floor, Jalasampad Bhawan, Govt of West Bengal.
3. The Executive Engineer-I, Lower Damoder Construction Division, Uluberia, Howrah.

Sd/-  
Executive Engineer  
Metropolitan Electrical Division  
I & W Dte., Govt. of West Bengal

**Memo No: 1503(3)/1(5)/7E-6/2025-26**

**Date: 11.09.2025**

Copy forwarded for favours of kind information to:

1. The Assistant Engineer attached to Metropolitan Electrical Division.
2. The Assistant Engineer, Metropolitan Electrical Sub-Division.
3. The Divisional Accounts Officer, Metropolitan Electrical Division.
4. Estimating Section, Metropolitan Electrical Division.
5. Notice Board of Metropolitan Electrical Division.

Sd/-  
Executive Engineer  
Metropolitan Electrical Division  
I & W Dte., Govt. of West Bengal

**SCHEDULE FOR BUDGETARY QUOTATION**

sEOI-No. WBIW/EE/MED/s-EOI-01/2025-26

**NAME OF THE WORK :** Construction of an 800 cusec storm water drainage pumping station along with allied Civil and electro-mechanical work over Howrah drainage Canal at Nazirganj HMC P.S Sankrail, Dist: Howrah.[PART-B(Mechanical & Electrical)]

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
	<b>SECTION-A (PUMP)</b>						
1	<p>Supply, installation, testing and commissioning at site of split case vertical execution (end suction &amp; side discharge) non clog centrifugal sewage pump set, extended shaft upto 5mtr and supporting arrangement with integral bend ( SITC of suction Bowl, Puddle pipe , Bend and brick work related with installation work to be included in the scope of work ) (Make:- Wilo / Kirloskar/ WPIL/ Grundfos/ Flyght/ Sulzer/ ABS/ KBL/ Kirloskar/ KSB/ Substantially equivalent).</p> <p>a) Pump capacity-5100 m3/hr (each)</p> <p>b) Pump efficiency=Guaranteed overall efficiency of pump shall be minimum 80%</p> <p>c) AOR capacity=80-120%</p> <p>d) TDH (Duty Point)= 5 mtr (TDH range required= 3.5 m to 6.0 M)</p> <p>e) Maximum static head=3.5 mtr</p> <p>f) Minimum static head=0.5 mtr.</p> <p>g) Motor speed =415 r.p.m.</p> <p>h) Solid handling capacity=upto 100mm</p> <p>Hydraulic Data.</p> <p>Sump floor level=R.L (-) 0.840 M (GTS), MWL/ Pump stop level=(+) 1.0 mtr</p> <p>FDL= (+) 1.57 mtr,</p> <p>Distance of centre line of pump from back wall=2500 mm</p> <p>Material</p> <p>Diffuser casing: Cast Iron IS:210, FG 260/EN-GJL-250/ BS:1452, FG-260</p> <p>Impeller: ASTM A351 Grade CF8M</p> <p>Shaft: SS ASTM A276 Type SS 410.</p> <p>Motor housing: Cast iron IS:210, FG 260/ EN-GJL-250/BS: 1452, FG 260</p>	16	Each				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
2	Supply, installation, testing and commissioning of approved make coupled <b>vacuum pump set with horizontal foot mounted TEFC squirrel cage motor</b> , 3 ph, 415 V with base plate, DOL starter, cable, SS suction pipes, specials, valves, PVC tank etc. Required for priming of pumps mentioned at SL. No-01 Note-Details are to be provided by the bidders.	16	set				
3	Supply, installation, testing and commissioning of approved make non- clog volute type, submerged suction, vertical, wet pit type, centrifugal <b>sump pump</b> with enclosed shaft, discharge pipe, head assembly thrust bearing and drive assembly cover plates with suitable size approved make integral motor Capacity-40 m3/hr TDH-12 mtr (approx.) as suitable Type of Pump-Vertical non-clog Suction Condition-Submerged	2	set				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
	<b>SECTION-B (MOTOR)</b>						
4	<b>Induction Motors (L.T. Motors)</b> Design, manufacture, supply, erection, testing, commissioning & installing at site of works & giving test & trial to full capacity, squirrel cage induction motors, <b>vertical solid shaft extendable couple</b> , suitable for the specified method of starting (Star Delta) & <b>enegy efficienct (IE3)</b> , CACW F class insulation & temp rise limited to B class suitable for operation on voltage mentioned below. 3 ph, 50 HZ with voltage variation of $\pm 6\%$ frequency variation $\pm 3\%$ , with 5% additional capacity over entire operating range. Operating voltage=415 V KW rating of motor=132 KW Motor efficiency=95% (Min) RPM=360 Starter=Operated on FCMA soft starter. The motor shall not be overloaded at any point of the performance curve.Make-Crompton Greaves/ Siemens/ ABB/Marathon/Alston Ltd/NGEF/KEC.	16	Each				
	<b>SECTION-C (VALVES)</b>						
5	Supply, Delivery, fitting and fixing at site of D.I. double flanged <b>motor operated Sluice Valves</b> ( Valves to be operated by suitable RotorKK.range (3ph, 415V) multi turn electrical actuator without starter including gear arrangements for the following dia. As per test pressure having Body, Bonnet, Dome, Stool Cover, Wedge facing ring, Bushes, Bolts, Nuts, Pinion and Pinion shaft with stainless Steel (IS 6603); Wedge nut, Shoe, Channel with Leaded Tin Bronze (IS 318); Gasket with Neoprene Rubber; Gland packing with Rubber; Gear, Gear housing with Cast Steel excluding all taxed and transportation, etc., as per IS specification and direction of E.I.C.						
5.01	<b>DN-800mm</b>	16	Each				
5.02	<b>DN-900mm</b>	16	Each				
5.03	<b>DN-1800mm</b>	4	Each				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
6	Supply, delivery, fitting and fixing of carbon steel double flanged swing <b>check type reflux valves (Non return valves) of 800 mm dia.</b> Conforming to IS-5312 (Pts-1&2) (with amendments up to date, if any) having body cover, door, bearing holder, hinge pin, door suspension pin with stainless steel (IS 6603), body seat ring, door face ring, bearing bushes, plugs for hinge pin with leaded tin bronze (IS 318), bolts, nuts with carbon steel, gaskets with rubber, hinges with cast steel including transportation. Rated flow - 5040 M <sup>3</sup> /Hr, Velocity at rated flow - 2.228 m/sec Design Pressure - 15 MWC Testing as per IS 14858	16	Each				
7	Providing, fabrication and fixing <b>expansion joints for pipelines</b> as per the drawing. The rate to include machining the strakes and steel ring as shown in the drawing and welding on either automatic welding machine or manually, Rate includes plates and flats required for expansion joints and all other materials such as synthetic rubber, rubber ring etc. including nuts and bolts, local handling etc. Expansion joints suitable for pipe diameters-800 mm.	16	Each				
8	Supply, delivery, storing at site, installation, testing & commissioning of double acting automatic <b>air relief valve of nominal size 100mm</b> as per IS 14845 with isolating mitre bevel geared sluice valve as per IS 14846 complete of material body & top cover- CI, IS 210 FG 260, internal fittings- bronze IS 318 LTB 2, hardware in contact with water- SS 304 and as per following specification. Working Pressure Body/seat - 7 / 5 kg/cm <sup>2</sup> Design Pressure Body/seat - 18 / 12 kg/cm <sup>2</sup> Testing as per IS 14846	8	Each				
9	Supply, delivery, installation, testing & commissioning of 1800 mm. dia. C.I. Single flange, swing type double hung <b>flap valve</b> with pressure rating as per specific standard (Body, flap Cast iron, IS:210, FG:260, Body & disc set: stainless steel, AISI 304, Hinge pin: Stainless steel AISI 410), flange standard IS 1538, leakage as per IS 13349 class 3.	4	set				
<b>SECTION-D (MATERIAL HANDLING FACILITIES)</b>							

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
10	Design, supply, delivery, storing at site, installation, testing & commissioning of 15 M.T. capacity x 8.5 mtr span x 36 mtrs. lift double girder pendent controlled semi EOT travelling crane having hoisting and CT motion electrical and LT motion manual to be operated from floor by hand chain. The crane shall be of M-5 (Class II) duty, indoor operation as per IS: 807, IS: 3177 or equivalent at its latest revision. This work also includes manufacture supply & fixing of long travel steel gantry girder with square rail for travel length of 28.60 mtr. and designed for maximum column pitch distance of 3 mtr. and DSL arrangement for feeding power to the crane along longitudinal travel comprising of 4 line PVC shrouded type GI conductor with supporting brackets and a set of current collector. The crane should be marked with safe working load (SWL). The whole work must be completed in all respect as per direction of E.I.C.	1	set				
11	<b>Electrically operated monorail crane with supporting MS structure for trashrack lifting lowering.</b> Design, supply, delivery, storing at site, installation, testing & commissioning of 5 M.T. capacity straight monorail (02 nos) placed at a distance of 1.5 mtr(approx.) for travel length of 36 mtr.(approx). Both the monorails shall be supported on goal post steel structure and top of goal post structure shall be covered by suitable sheet metal to protect the hoist from direct sun and rain. Both hoisting and LT motion electrical and to be operated by 2nos 5MT capacity wire rope type electrical hoist with electrical trolley and lift 7 mtr. The crane shall be suitable for outdoor operation of M-5 (Class II) duty, indoor operation as per IS: 807, IS: 3177 or equivalent at its latest revision. This work also includes design, manufacture supply & fixing of 2sets of DSL arrangement and isolating switch for feeding power to the crane along longitudinal travel comprising of 4 line PVC shrouded type GI conductor with supporting brackets and a set of current collector for each hoist. The crane should be marked with safe working load (SWL). The whole work must be completed in all respect as per direction of E.I.C.	1	set				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
12	<b>Electrically operated monorail crane with supporting MS structure for material handling(Panel/Pump etc)</b> Design, supply, delivery, storing at site, installation, testing & commissioning of 5 M.T. capacity straight monorail for material handling.	3	set				
	<b>SECTION-E (AUXILLIARY EQUIPMENT/SERVICES)</b>						
13	Carrying out CFD analysis of the sump as per design and drawing , based on details of pump being offered at reputed educational institute/ laboratory with prior approval of E.I.C. and to provide suitable arrangement of flow guides, buffers, splitters etc. at the sump to achive smooth pump operation free from vortex, pre rotation, swirl etc. (Approved sch. No- 67/2017-18 of SE/M&EC)	1	job				
	<b>SECTION-F (ELECTRICAL WORKS)</b>						
14	Supply,delivery, storing at site, installation, testing & Commissioning of 2.5 MVA, 33 KV/0.433 KV, 3 phase, 50 Hz Δ/λ, Dyn 11 outdoor ONAN type transformer in IP 55 enclosure with copper windings, OFF load tap changing arrangement in steps of + 1-2.5% & - 7.5%, having HTcable end boxes with cable gland plate suitable for terminating 33KV,3C x 240 sqmm XLPE/ ARMD, AL cables X 2 Nos for primary side and .....4000.....Amp, ....160.....KA breaking capacity (100% Neutral busbar) Bus Duct on the secondary side, three channel temperature scanner for continuous monitoring of the windings , with supply of all associated materials and accessories like oil conservator, silica gel breather,Bucholtz Relay, mounting channels bolts ,nuts washers, screw, clamps, painting, earthing etc.and confirming to IS- 1180 (Level-1) and as per specification as laid down in the contract complete in all respect as required at site including construction of required size CC pedestal. Make- Schneider/ KEC /CGL/ABB/Automatic Electrogear/Century/True Volt.	3	job				
15	SITC of 33 KV, 800 Amps 4 PANEL with 33 KV, 800 Amps 31.5 KA VCB switchgear along with Panel top moounted P.T. as per enclosed specification. 1 no. Incomer feeder & 3 nos. Outgoing feeder.	1	set				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
	RATING: 1250A BUSBAR 1250A COPPER (31.5KA for 3sec) - 1no A: MOVING PORTION: A1: 33KV, 800A, 31.5 KA for 3sec VCB - 1no A2: VCB Enclosure + 800A Copper connections - 1no A3: 800A PVC sleeved Copper Bus Bars -1no B: CT AND PT DETAILS: B1: 2 Core CT: CTR: 400/5A+5A - 3nos CORE 1: For metering, class-0.5, 15Va CORE 2: For Protection, Class-5P10, 15VA B2: 3 Nos 1Phase PTR: 33KV/v3/110V/v3, Cl. 1 50VA (Panel top mounted PT) (Drawout type) - 1no						
	C: BREAKER PANEL INDICATION LAMPS: C1: BREAKER On/OFF/Trip circuit Heathy/ Spring charge indication/ Breaker test position/ Breaker service position.- 6nos C2: R-Ph./ Y-Ph./ B-Ph. -3nos D: SWITCHES AND OTHER ACCESSORIES: D1: AC ON/ OFF Switch-1no D2: Auxiliary contactor (2NO + 2NC) - 1no D3: Heater with heater switch & thermostat -2nos D4: Cubicle illumination lamp-1 D5: 15A, 230V, 3 pin plug & socket and MCB -1no D6: Local Remote Switch -1no D7: T-N-C Switch -1no						

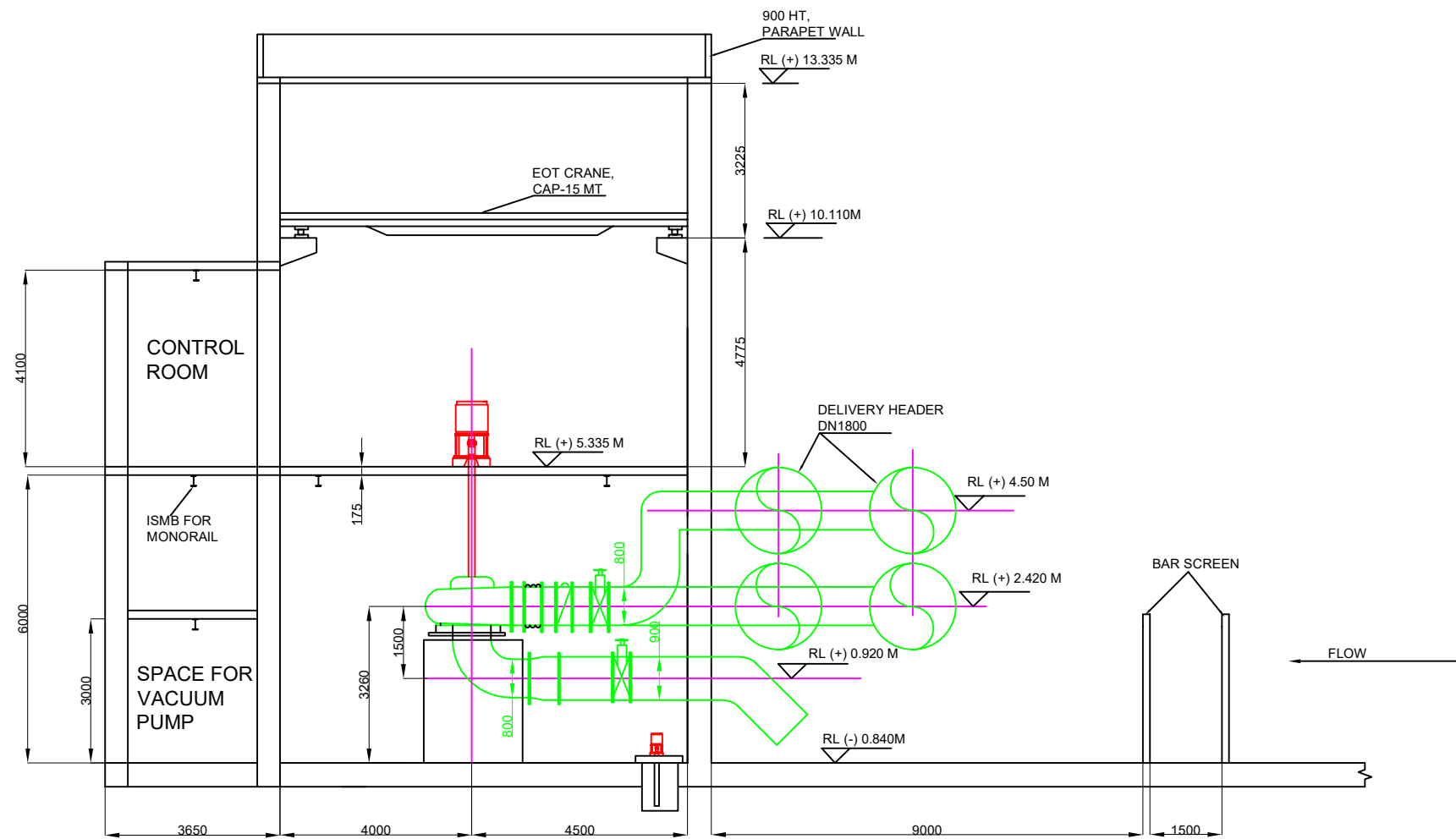


SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
	D8: Mech. On-OFF push button -1no D9: TTB -1no D10: Buzzer- 1no E: METERS & TRANSDUCERS: E1: Ammeter with selector switch -1no E2: Voltmeter with selector switch- 1no E3: Digital MFM (Model: EM6400, CI-1.0 SCHNEIDER MAKE)- 1no F: RELAYS F1: Numerical relay communicable on MODBUS protocol MICOM P 127 with Power Pack Unit- 1no F2: Mastertrip lockout relay VAJH 13 (86)- 1no F3: Electromechanical type Trip circuit Supervision Relay (VAX31)- 1no						
	PT should be drawout type & Power pack unit must be provided for tripping circuit Cable entry box both side (Incomer & Outgoing) suitable for 2 Nos 3C X 240 sq. mm XLPE 33KV (UE) grade cable.						
16	Supply, installation, testing and commissioning of ...4000....Amp, ....160.....KA breaking capacity (100% Neutral busbar) sandwich busduct system made of CRCA sheet/Hot Galvanized steel encloser of thickness not less than 1.5mm having degree of protection of IP 55/IP 65 as per IEC/EN 61439-6, PVC/Plastic insulated reinforced with glass fibre four strip ALUMINIUM busbar in convenient sections including end cover units suitable for 415 volts 3 phase, 4 wire, 50 Hz A.C. system etc., with necessary joints, fire barrier at each floor, provision of tapping at each floor/every meter, continuous earthing with 2 no of aluminum strip of suitable size (one on each side) including GI clamping brackets, angle iron brackets, steel fasteners, connecting to earth system as required . Makes: As per list of recommended brands. i) 4000 Amp, 160kA (3 Sets Each Set of 10 Mts = 30 Mts)	3	set				

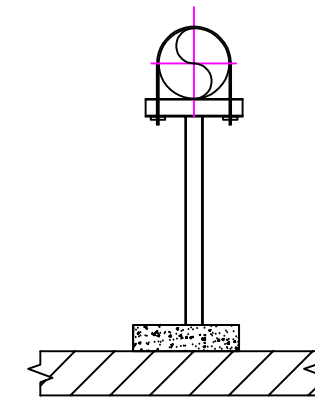
SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
17	Supply Installation Testing and commissioning of self-healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 in existing panel or parallel with load terminals , the capacitor shall be fitted with discharge resistors, pressure sensitive disconnecter ( PSD ) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR. including making connections with suitable capacity conductors/cables testing as required. Makes: As per list of recommended brands. i) Heavy duty Three phase 440 V, 50 Hz capacitor (Bank) 50 KVAR Capacitor X 22 Nos	22	set				
18	ABB Motor Control Center Panel Incomer MCCB 400A AUTO TRANSFORMER 160KW Standard Features: Incomer MCCB 400A 3P 50KA Equipped with door handle interlocked with panel door Starter is equipped with Local/Remote Start and Running Signal feedback All Wires are colored and numbered Suitable Enclosure IP55 Components List: 1 X ABB.1SDA054929R1: ROTARY HANDLE T4-T5 F/P STAND. RETURNED 4 X ABB.2CDS271011R0064: Miniature Circuit Breaker – 1P – C – 6 A 1 X ABB.1SFL427001R1311: AF116-30-11-13 Contactor 1 X ABB.1SFL587002R1311: AF305-30-11-13 Contactor 2 X ABB.1SFN010820R1011: CAL19-11 Auxiliary Contact Block 1 X ABB.1SDA100490R1: XT5H 400 Ekip Dip LS/I In=400 3p F F 1 X ABB.1SFL547002R1311: AF265-30-11-13 Contactor Approximate Weight: 259.26 KG Approx Dimensions (WxHxD): 100x140x30 cm	22	Nos				
19	SITC of Luminous make inverter, model : Cruze + 5.2 KVA - 72V, sine wave, for flood control cell.	2	job				
20	SITC of Luminous make battery, 12V, Rc 18000 battery, for flood control cell.	12	Nos				

SI NO	Description of Items	Qty	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate (Rs., Incl of all taxes) (budget quotes)
	<b>SECTION-G (OPERATION AND MAINTANANCE)</b>						
21	Trial run operation of minimum 72 Hrs on continuation basis or 200 hrs intermittent of each pump including cleaning.	1	job				
22	Operation and running routine maintenance of pumps and allied electro-mechanical system and cleaning of trash rack/ barscreen/ gratings at inlet to the pump bays after commissioning of the pumps for 12(twelve) months and replacement of spares(if required) during the 1st year of warranty period. (03 nos operator, 03 nos electrician & 08 nos helper per day round the clock)	12	p/month				

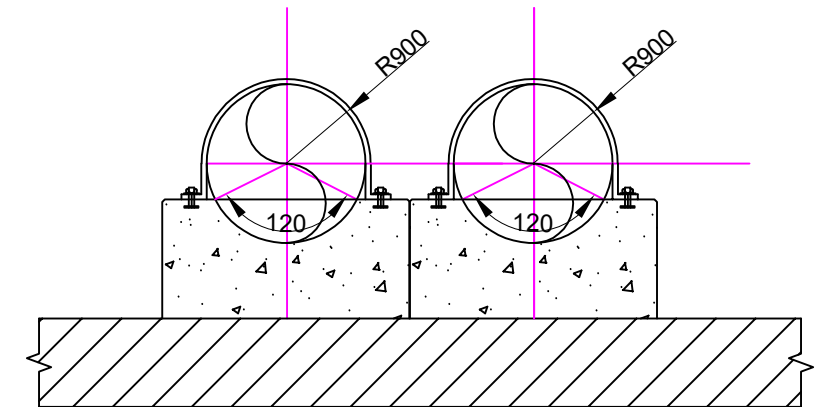




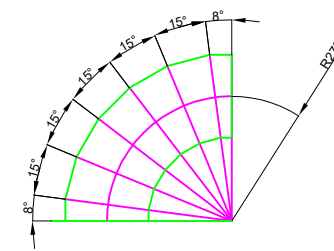
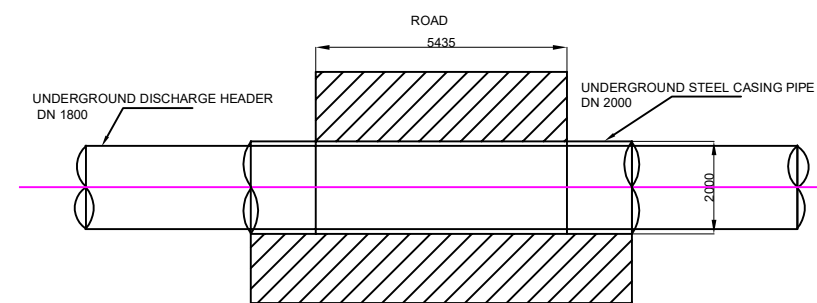
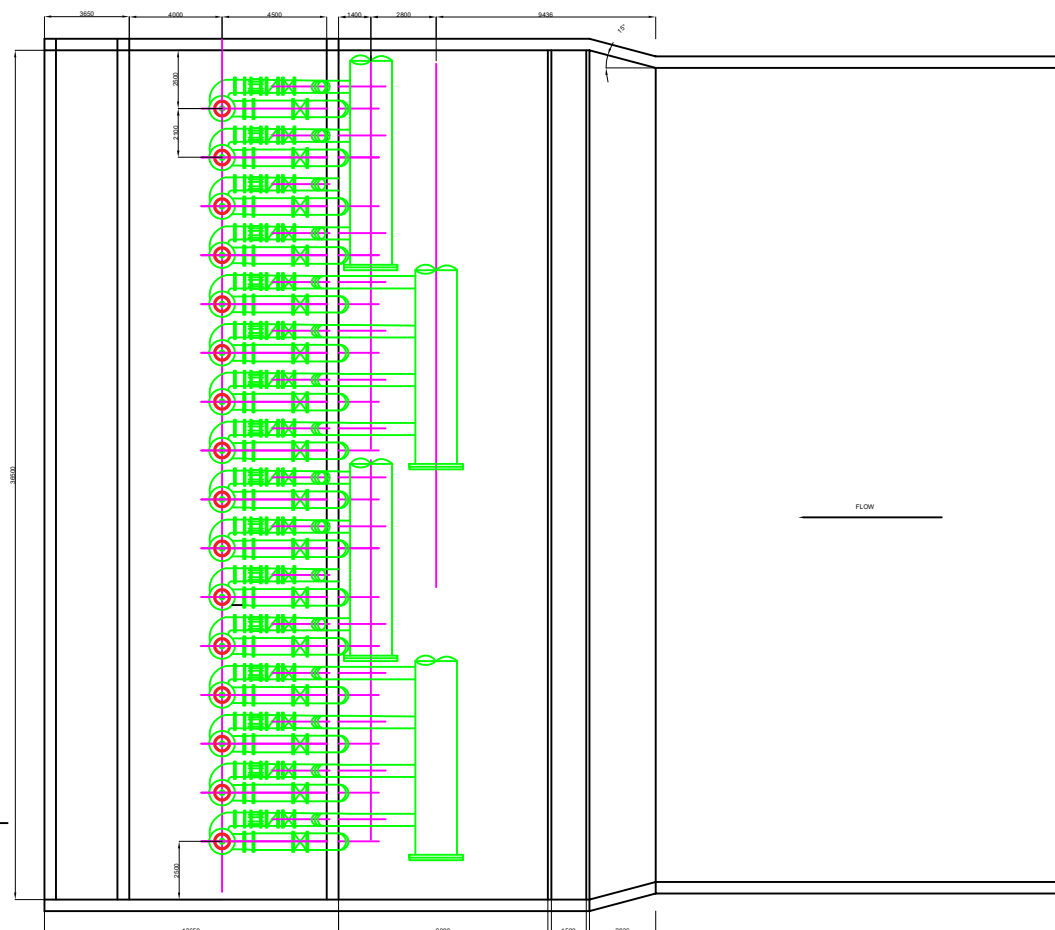
VIEW A-A



TYPICAL PIPE SUPPORT FOR SUCTION AND DISCHARGE PIPE



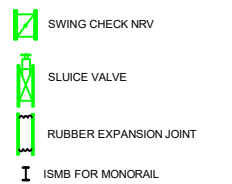
TYPICAL PIPE SUPPORT FOR DISCHARGE HEADER DN 1800



TYPICAL DETAILS OF MITER BEND

SL. NO	DESCRIPTION	QTY.
1	50 CUSEC CENTRIFUGAL PUMP ALONG WITH MOTOR	16
2	DRAIN SUMP PUMP	2
3	EOT CRANE, CAP-15 MT	1
4	SPIRAL WELDED PIPE DN 1800	LOT
5	SPIRAL WELDED PIPE DN 900	LOT
6	SPIRAL WELDED PIPE DN 800	LOT
7	MOTORISED SLUICE VALVES DN 1800	4
8	MOTORISED SLUICE VALVES DN 900	16
9	MOTORISED SLUICE VALVES DN 800	16
10	SWING CHECK NON RETURN VALVES	16
11	RUBBER EXPANSION JOINTS	16
12	PRESSURE GAUGES	32
13	ISMC 200	LOT

**LEGENDS**



**NOTES**

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS

IRRIGATION AND WATERWAYS DIRECTORATE  
GOVT. OF WEST BENGAL

METROPOLITAN ELECTRICAL DIVISION

GENERAL ARRANGEMENT DRAWING FOR  
CONSTRUCTION OF 800 CUSEC PUMP HOUSE,  
NAZIRGUNJ, HOWRAH

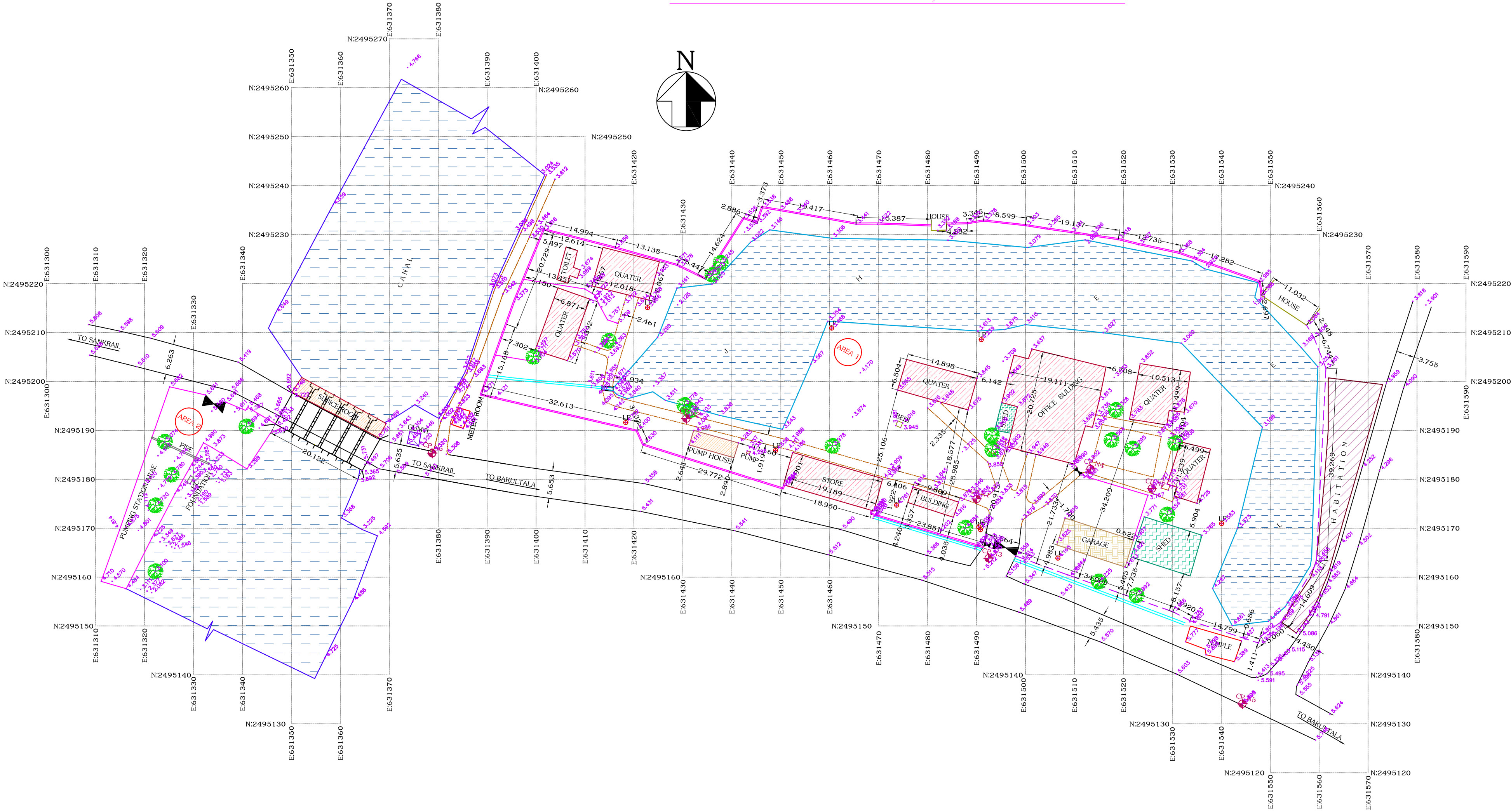


GOOGLE EARTH LOCATION OF THE SLUICE AND THE HOWRAH DRAINAGE SUBDIVISIONAL OFFICE CAMPUS





LAYOUT SURVEY PLAN OF (I&W OFFICE BUILDING & PUMPING STATION AREA) AT NAZIRGUNGE



S.NO	Description	Symbol
1	BUILDING	
2	LAMP POST	
3	BITUMINOUS ROAD	
4	BRICK ROAD	
5	GATE	
6	POND	
7	HABITATION	

S.NO	Description	Symbol
8	CONTROL POINT	
9	SHED	
10	GARAGE	
11	PUMP HOUSE	
12	TREE	
13	BEDI	
14	TEMPLE	

AREA DETAILS:- (AREA 2)  
469.9470 sq. metre  
0.1161 acre  
5056.6297 sq. ft  
0.000 Bigha \_7.000 Katha \_0.000 Chatak \_16.629 Sq. Feet

CP NAME	NORTHING	EASTING	R.L
N1	2495176	631490	3.846
N2	2495192.419	631430.7	4.155
N3	2495163.853	631492.5	4.873
N4	2495182.095	631513.3	3.864
N5	2495134.129	631544.3	5.705
N6	2495185.347	631378.8	5.452
N7	2495178.104	631525.8	3.757

AREA DETAILS:- (AREA 1)  
9486.6390 sq. metre  
2.3442 acre  
102076.2356 sq. ft  
7.000 Bigha \_1.000 Katha 12.000 Chatak \_16.235 Sq. Feet

- NOTES :
- ALL DIMENSIONS ARE IN METER.
  - G.T.S BENCH MARK WITH RL 3.846. IS CARRIED FROM THE TOP OF BRICK ROAD
  - ALL CO-ORDINATES ARE IN RESPECT OF PROJECTION - UTM 45N.
  - GRID INTERVALS ARE 10M APPART.

GOVT. OF WEST BENGAL  
IRRIGATION & WATERWAYS DIRECTORATE  
HOWRAH IRRIGATION DIVISION

LAYOUT SURVEY PLAN OF (I&W OFFICE BUILDING & PUMPING STATION AREA) AT NAZIRGUNGE

DRG NO:	Date	Scale 1:600	Page No.-1/1
SECTION OFFICER SECTION -III	SUB DIVISIONAL OFFICER HOWRAH DRAINAGE SUB DIVISION	EXECUTIVE-ENGINEER HOWRAH (I) DIVISION.	SUPERINTENDING-ENGINEER WESTERN CIRCLE-I