

**NOTICE INVITING TENDER**

**FOR**

**SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR x 2 Nos., SCRAPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS) -2 NOS AND 5.0 M DIA X 5.0 M DEPTH THICKENER- 1 NO. AS PER THE ATTACHED DRAWINGS AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST., TELANGANA, INDIA.**

**TENDER DOCUMENT**

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : [spvcetp@jetltd.org](mailto:spvcetp@jetltd.org)

Price - Rs.2,000/-

SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR x 2 Nos., SCRAPPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS -2) NOS. AND 5.0 M DIA X 5.0 M DEPTH THICKENER- 1 NO. AS PER THE ATTACHED DRAWINGS AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA, INDIA.

PUBLISH OF TENDER : 25.10.2024

PRE-BID MEETING DATE & TIME : 30.10.2024 FROM 11:00 A.M. TO 4:00 P.M.

PRE-BID MEETING VENUE : JEEDIMETLA EFFLUENT TREATMENT LTD.

PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA,  
HYDERABAD - 500055, MEDCHAL- MALKAJGIRI DIST.,  
TELANGANASTATE, INDIA

SUBMISSION OF QUERIES : 04.11.2024 BEFORE 5:00 P.M. THROUGH E-MAIL

REPLY TO QUERIES : 05.11.2024 BEFORE 5:00 P.M. THROUGH E-MAIL

DATE & TIME OF SUBMISSION OF TENDER : 20.11.2024 BEFORE 5:00 P.M. AT JETL

DATE & TIME OF OPENING OF TENDERS : 21.11.2024  
(TECHNICAL BID)

DATE & TIME OF OPENING OF TENDERS) : 22.11.2024  
(COMMERCIAL BID)

NOTE:

1. Payment should be made online for Tender Cost and EMD. Bank details are as follows.

JETL Upgradation Project  
Account No. 50200090196051,  
Name of the Bank: HDFC Bank Ltd.,  
Branch: Ground Floor, Bank House, Roxana Palladium,  
Road No. 1, Shyam Rao Nagar, Banjara Hills,  
Hyderabad, Telangana – 500034  
IFSC Code: HDFC0009817

2. Tender should be submitted in 2 packet system for Lamella Clarifiers & Scrappers (Technical Bid with proof of Tender Cost payment and EMD paid receipts and Commercial Bid).

1. SUBMISSION OF TENDER:

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist.

Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : [spvcetp@jetltd.org](mailto:spvcetp@jetltd.org)

1. Name of the Tenderer:

2. Tenderer Address:

3. a. PAN No. of the Firm:

b. GST No:

4. Authorised Representative Name:

Mobile No:

## **C O N T E N T S**

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**Letter comprising of quotation for** “Supply, Fabrication, Erection & Commissioning of Lamella Clarifier of Capacity 100 KL/Hr X 2 Nos, Scraper Mechanisms for 7.0 m dia. X 4.0 m depth Sludge Settling Tanks (Clarifiers) -2 Nos. and 5.0 m dia. X 5.0 m depth Thickener- 1 No. as per the attached drawings”

**To,**

The Executive Director  
Jeedimetla Effluent Treatment Ltd.  
Plot No.267, Phase-I, IDA, Jeedimetla  
Medchal-Malkajgiri Dist., Hyderabad– 500 055  
TELANGANA, INDIA

Dear Sir,

1. With reference to your TENDER notice dated 25.10.2024, I have examined the TENDER document and understood its contents. I hereby submit my Technical & Commercial Bid for “Supply, Fabrication, Erection & Commissioning of Lamella Clarifier of Capacity 100 KL/Hr X 2 Nos., Scraper Mechanisms for 7.0 m dia. X 4.0 m depth Sludge Settling Tanks (Clarifiers) -2 Nos. and 5.0 m dia. X 5.0 m depth Thickener- 1 No.” **at Jeedimetla Effluent Treatment Ltd., Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad – 500 055, Telangana, INDIA.**
2. The Application is unconditional for the said Tender. This bid is valid for a period not less than 30 days.
3. It is acknowledged that the Authority will be relying on the information provided in the tender and the documents accompanying such tender for qualification of the bidders for the above subject project, and we certify that all information provided in the tender and in Annexures is true and correct nothing has been misrepresented and omitted which renders such information misleading and all documents accompanying the bid are true copies of their respective originals.
4. This statement is made for the express purpose of the above-mentioned subject.
5. We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Qualification statement.
6. We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby relinquish, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
7. It is declared that:
  - (a) We have examined and have no reservations to the Tender document.
  - (b) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in respect of any Bid or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State.
8. It is understood that the JETL may cancel the Bidding Process at any time without incurring any liability to the JETL and that you are neither bound to invite the applicants to Bid for the Project nor to accept any bid that you may receive.

9. It is certified that we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
10. It is further certified that no investigation by any regulatory agency is pending against us.
11. We hereby irrevocably relinquish any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of bidders, selection of the Tenderer, or in connection with the selection/Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.
12. We agree to undertake to abide by all the terms and conditions of the TENDER document.
13. We agree to undertake to be liable for all the obligations of the Tenderer under the agreement. In witness thereof, we submit this application under and in accordance with the terms of the TENDER document.

**Yours Truly**

**(Signature, name and designation of the Authorized Signatory)**

Place: Name and seal of the Bidder/Lead Member

JETL, Hyderabad invites sealed tenders from potential and reputed manufacturers, companies authorized for the “SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR X 2 NOS., SCRAPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS) -2 NOS AND 5.0 M DIA X 5.0 M DEPTH THICKENER – 1 NO. AS PER THE ATTACHED DRAWINGS.” AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA, INDIA.

S.No.	Name of Work	EMD	Tender Cost
1	“SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR X 2 NOS., SCRAPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS) -2 NOS AND 5.0 M DIA X 5.0 M DEPTH THICKENER – 1 NO. AS PER THE ATTACHED DRAWINGS” AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA, INDIA.	Rs.3,00,000/- (Rupees Three Lakhs only)	Rs.2,000/- (Rupees Two Thousand only)

Note:

1. Publish of Tender: 25.10.2024
2. Last Date & Time for submission of Tenders: 20.11.2024 at 5:00PM.
3. Opening of Tender (Technical Bid): 21.11.2024
4. Tender Committee will select the technically qualified bids and those who qualified in the technical bid will be eligible for opening of financial bid and Tender Committee decision will be final.
5. Tender Cost **Rs. 2,000/-**(Non-refundable) to be submitted in the form of DD / Online in favour of Jeedimetla Effluent Treatment Ltd., Payable at Hyderabad.
6. EMD should be paid online before submission of Tender in favour of Jeedimetla Effluent Treatment Ltd., Payable at Hyderabad.
7. Period of Contract: **3 Months** from date of entering into an agreement
8. JETL reserves the right to reject or accept the tender in part or in full without assigning any reason.
9. JETL have sole discretion can postpone/ advance or cancel the tender.
10. The dates mentioned above by any reason falls on holiday the next working day shall be considered.

-Sd/-

EXECUTIVE DIRECTOR

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : [spvcetp@jetltd.org](mailto:spvcetp@jetltd.org)

## **Schedule – 1**

### **General Terms & Conditions:**

#### **1.0 PREFACE:**

1.1 The Jeedimetla Effluent Treatment Ltd. (JETL), Hyderabad invites tender for “Supply, Fabrication, Erection & Commissioning of Lamella Clarifier of Capacity 100 KL/Hr X 2 Nos., Scraper Mechanisms for 7.0 m dia. X 4.0 m depth Sludge Settling Tanks (Clarifiers) -2 Nos. and 5.0 m dia. X 5.0 m depth Thickener – 1 No. as per the attached drawings” AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA STATE, INDIA. from the reputed and long-standing Manufacturers / Importers /authorized distributors / dealers etc.

1.2 The Executive Director, JETL, reserves the right to accept or reject any or all the tenders in full or part thereof, which in his opinion, justifies such action, without further explanation to the Tenderer.

#### **2.0. Definition of Terms:**

In the contract documents as here in defined where the context so admits, the following words and expressions will have the following meanings:

- 2.1 JETL shall mean Jeedimetla Effluent Treatment Limited or their duly authorized representatives.
- 2.2 Officer-in-Charge shall mean the in-charge officer at the plant or his representative.
- 2.3 Purchaser shall mean JETL.
- 2.4 Tenderer shall mean the firm/party/individual/manufacture who quotes against this enquiry.
- 2.5 Contract price mean the price referred to in against the corresponding item quoted.
- 2.6 Notice in writing or ‘Writing notice’ shall mean a notice in written typed and printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the address and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- 2.7 “This Contract” shall mean the Articles of Agreement, the conditions, the Appendix, the Schedule of Quantities and / or specification attached hereto and duly signed.
- 2.8 The “Site” means the areas on which the permanent works are to be executed or carried out and any other places provided by the JETL for purpose of the Contract.
- 2.9 Month shall mean Calendar month.
- 2.10 “The Tenderer” shall mean the successful Tenderer to whom an order of supply is issued by the JETL.
- 2.11 “The Supply” shall mean the supply to be made in accordance with the Contract or part thereof as the case may be and shall include extra, additional, altered or substituted supply as required for purpose of the contract.



- 2.12 "The Make" shall mean the original company from where the particular material has been originated and manufactured.
- 2.13 "The Quantity" shall mean the units in Numbers/Length/Weight, the equipment is measured.
- 2.14 "The Specification" shall mean the various technical specifications attached and referred to in the tender documents. It shall also include the latest editions including all addenda/corrigenda, of relevant Indian Standard Specifications, specification of any other country published before entering into contract.
- 2.15 The "Completion Certificate" shall mean the Certificate to be issued by the Officer in-Charge after due inspection in respect of quantity, quality, make and specifications of the spares supplied by the Tenderer.
- 2.16 The "Period of Liability" in relation to spares equipment the specificised period from the date of supply and to the end of warranty period during which the Tenderer stands responsible for replacement of the defect spare.

### **3.0 Submission of Tender:**

#### **a. Pre-bid meeting:**

- Prior to attending Pre-bid meeting tenderer is advised to visit plant and interact with team to discuss the technical details of all machinery/equipment's etc.
- Pre-bid meeting will be conducted on the scheduled date as mentioned in tender document.

3.1 Tenders must be submitted at JETL. Reservations, if any, regarding the tender conditions and schedule of rates should be clearly brought in a separate letter.

3.2 Addenda/Corrigenda to this tender, documents, if issued, must be signed and submitted along with the Tender document. The Tenderer should write clearly the revised quantities in schedule of rates of tender document and should price the supply based on revised quantities when amendments for quantities are issued in addenda.

3.3 Covering letter along with its enclosures accompanying the tender document and all further correspondence shall be submitted in duplicate.

3.4 The Tenders, as submitted, will consist of the following:

- i. Complete set of tender documents downloaded from JETL website duly filled in and signed by the Tenderer as prescribed in different clauses of the tender documents.

3.5 All Pages to be signed in Tender documents, shall be a dated as well as all the pages of all sections of tender documents shall initiated at the lower left-hand corner and signed wherever required in the tender papers by the Tenderer or Authorized Representative.

3.6 Rates to be in figures and words. The Tenderer should quote in English both in figures as well as in words, the rates and amounts tendered by him in the schedule of rates for each item and

in such a way that insertion is not possible. The amount for each item should be worked out and entered and requisite total given of all items both in figures and words. The tendered amount for the supply shall be entered in the tender and duly signed by the Tenderer.

### **3.7 Corrections & Erasures:**

All corrections, and alterations in the entries of tender papers will be signed in full by the Tenderer with date. No erasures or over-writings are permissible.

3.8 Tenderers should state in their offers the address to which the orders, notices and correspondence relating to the tender are to be sent. Any change of address should be notified to Jeedimetla Effluent Treatment Limited, and correspondence thereafter will be done with the state address.

3.9 The acceptance of tender and award of purchase order to one or more than one Tenderer if considered necessary will rest with the JETL who does not bind himself to accept the lowest tender. JETL reserves the right to reject any or all the offers received without assigning any reasons and no explanation can be demanded of the cause of rejection of his tender by any tenderer.

3.10 The tender documents in which tender submitted by a Tenderer shall become the property of the JETL and the JETL shall have no obligation to return the same to the tenderer.

3.11 Tenderer shall write all rates both in figures and words. In case of any discrepancy rate in words will be taken as true rate.

3.12 For any clarification regarding the tender or nature or scope of work, the office of JETL, Hyderabad may be contacted during office hours between 10 am to 5 pm on any working day.

3.13 Negligence of the bidder in preparing bid confers no right to withdraw the bid after it was opened.

### **4.0 Transfer of Tender Document:**

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

### **5.0 Earnest Money Deposit (EMD):**

The intending Tenderer shall deposit with JETL, Hyderabad as Earnest Money Rs. 3,00,000/- (Rupees Three Lakhs only) by demand draft as a guarantee of good faith, which amount shall be forfeited in the event of any evasive refusal or delay in executing the order. The deposit of the unsuccessful tenderer will be returned without interest, immediately after the decision is taken regarding the award of the order. The Earnest money of the successful tenderer will be returned after supply of machinery & material at site.

### **6.0 Price:**

6.1 Price offered by the tenderer should be firm and free from escalations. The prices offered should be valid for a period of **30 days** from the date of tender opening.

6.2 Price should quote inclusive of transportation charges to JETL, Jeedimetla, Medchal-Malkajgiri dist., Hyderabad, Telangana State, INDIA.

6.3 Price Quoted should be Exclusive of GST.

## **7.0 Liquidated Damages:**

7.1 If the Tenderer fails to deliver any or all of the Goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to:

7.1.1 1% value of the undelivered portion of the supply/ incomplete supply for each week of delay beyond the scheduled delivery date.

7.1.2 The total amount so deducted shall not exceed 5% of the work order value. Once the maximum is reached, the purchaser may consider termination of the contract.

7.2 Any incremental taxes and levies on account of delay in performance of the contract by the Tenderer shall be to the Tenderer's account.

## **8.0 Termination:**

8.1 The purchaser may without prejudice to any other remedy for breach of work order by written notice of default sent to the Tenderer, terminate the order in whole or in part:

8.1.1 If the Tenderer fails to deliver any or all of the goods within the time period specified in the contract or any extension thereof granted by the purchaser.

8.1.2 If the Tenderer fails to perform any other obligation under the contract.

8.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deemed appropriate, goods similar to those undelivered, and the Tenderer shall be liable to the purchaser for any excess costs for such similar goods. However, the supplier shall continue performance of the contract to the extent not terminated.

8.3 Consequent to such termination of work order, the purchaser shall recover the advance paid, if any, to the Tenderer along with the interest @18% per annum compounded quarterly on the last day of March, June, September and December on the advance paid for the entire period for which the advance was retained by supplier.

8.4 The purchaser may at any time terminate the contract by giving written notice to the Tenderer, without compensation to the Tenderer, if:

8.4.1 The Tenderer becomes bankrupt or otherwise insolvent.

8.4.2 The Tenderer being a company is wound up voluntarily by the order of a court receiver or a Manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver or a Manager.

## **9.0 Force Majeure:**

9.1 Notwithstanding the provisions of delay clause, the Tenderer shall not be liable for forfeiture of their Earnest money deposit, liquidated damages or termination for default, if and to the extent that, it's delay in execution or their failure to perform their obligations under the contract is the result of an event of Force Majeure.

9.2 For the purpose of this clause, "Force Majeure" means an event beyond the control of the Tenderer and not involving the Tenderer's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Federation either in its sovereign or contractual capacity, wars or revolutions, fires floods, epidemics, riots, terrorism and all acts of God.

9.3 If a Force Majeure situation arises, the Tenderer shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchase in writing, the Tenderer shall continue to perform its obligation under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **10.0 Extension of time for completion:**

10.1 Should the supply of extra or additional items or services of any kind be any cause of delay referred to in these conditions, or exceptional adverse climatic conditions or other special circumstances of any kind whatsoever which may occur, be such as fairly to entitle the Tenderer to an extension of time for the completion of the supplies, the supplier shall determine the amount of such extension and shall notify the Tenderer accordingly. Provided that the supplier is not bound to take into account any extra or additional supplies or services or other special circumstances unless the Tenderer has within twenty-eight days after such work has been commence, or such circumstances have arisen, or as soon thereafter as in practicable submitted to the purchaser full and detailed particulars of any extension of time to which he may consider himself entitled in order that such submission may be investigated at the time.

## **11.0 Review and Co-ordination meeting:**

11.1 The Tenderer shall depute senior and competent personnel to attend the site, Co-ordination meetings that would generally be held at the site every month. The Tenderer take necessary action to implement the decisions arrived at such meetings shall also update the supply schedule.

## 12.0 Eligibility Criteria:

S. No.	Description
1	The Tenderer should have at least 10 years of experience in design, fabrication, erection & commissioning of Lamella Clarifiers and Scraper Mechanisms at CETPs / ETPs. Technical Experience which shall include i) No. of similar projects executed in ETPs / CETPs ii) No. of Projects functioning optimally iii) No. of Projects under execution
2	The Tenderer should have supplied a minimum capacity of 200 KLD & above Lamella Clarifier at ETP/CETP
3	The Tenderer having minimum turnover of Rs.3.0 Crores in last 3 years with at least Rs.1.0 crores turnover in any one of the years. Financial competences shall include i) Execution of single project with value of Rs. 1.0 Cr and above ii) IT returns for last 3 Financial Years
4	Industry Establishment shall include i) Capacity to fabricate and manufacture the equipment. ii) Capacity to procure bought out items
5	Design and Engineering shall include i) Facilities to design and execute the project ii) Details of technical manpower involved in execution of the project

S. No.	DOCUMENTS REQUIRED
1	The Tenderer shall submit the previous client list with certificate of performance and experience should be in Common Effluent Treatment Plants / Effluent Treatment Plants.
2	The Tenderer should have experience in design and installations of Lamella Clarifier and Scraper Mechanisms in CETPs / ETPs.
3	Details of value of works executed in each year during the last three financial years by the Tenderer.
4	<b>Details of Existing Commitments:</b> Details of works on hand and, yet to be completed as on the date of submission of the Tender and works for which Tender/s have been submitted are to be furnished.
5	<b>Availability of Technical Personnel:</b> Qualification and experience of Technical Personnel proposed to be deployed for execution of the work.
6	Information on litigation history in which Tenderer is the Petitioner

The Tenderer has to attach the above Details of Document on Firm / Company Letter Head and should submit the Tender Document.

### **13.0 Terms of Payment:**

The terms of payment applicable to the contract will be as Stated below:

13.1 - 30% advance payment of along with Work order against Advance Bank Guarantee.

13.2 - 30% payment after Supply of material and ABG will be released.

13.3 - 20% payment after completion of the Lamella Clarifier structure.

13.4 - 10% After erection and commissioning of equipments.

13.5 - 10% After satisfactory report as certified by our AGM (EE) and against submission of performance Bank Guarantee for the period of 12 months from the date of commissioning.

### **14.0 Project Completion Period:**

14.1 Total Project to be complete including Supply, Installation and Commissioning **3 months** from date of entering into an agreement.

14.2 After completion of installation and commissioning, the bidder has to achieve the performance of the equipment's as per tender conditions.

### **15.0 Compliance with Labour Laws**

Tenderer shall comply with all laws and statutory regulations dealing with the employment of labour such as:

- i) The payment of Wages Act, 1936
- ii) The Minimum Wages Act, 1948
- iii) The Workmen's Compensation Act, 1923
- iv) Employer's Liability act, 1938
- v) Industrial Disputes Act, 1947
- vi) Maternity Benefit Act 1961
- vii) The Employees State Insurance Act, 1948
- viii) Employee's Provident Fund Scheme.
- ix) Child labour (Prohibition & Regulation) Act-1986
- x) The Contract Labour (Regulation and Abolishing) Act, 1970 & Contract Labour (Regulations & Abolition) Central Rules, 1971.

### **16.0 Safety**

The Contractor shall be responsible for the safety of all the personnel working and activities on the site and has to follow all the safety rules of the Company (JETL).

## **17.0 Insurance for works and damages to persons and property:**

### **17.1 Insurance for works:**

The Tenderer at the time of signing the contract or before commencing the execution of the work, without limiting his obligations and responsibilities shall insure the works at his own cost and keep them insured not only until the virtual completion of the contract, but up to satisfactory completion of the defect liability period including extended defect liability period, if any, against all acts of God including Fire, Theft, Riots, War, Floods, etc. with Nationalised Insurance Agency in the joint names of the Employer and Tenderer (the name of the former being placed first in the policy) for the full amount of the contract and inclusive of the full market value of the materials to be supplied free of cost by the Employer, fees for assessing the claim and in connection with Tenderer's services generally therein. This policy, however shall not cover any property of the Tenderer or of any sub-Tenderer or their employees.

### **17.2 Insurance in respect of damages to persons and property:**

- i) The Tenderer shall be responsible for all injury/mishaps to persons, animals or things and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any approved sub- Tenderer's or Employee's, whether such injury/mishaps or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause should be held to include any damage to roads, streets, footpaths, bridges, sewerage, water supply & other services and works forming the subject of this contract by frost or other inclemency of the weather. The Tenderer shall indemnify the Employer and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claims made in respect of injury or damage under any Acts of Government or otherwise and also in respect of any award of compensation of damages consequent upon such claims.
- ii) The Tenderer shall reinstate all damages of every sort mentioned in this clause, so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.
- iii) The Tenderer shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of works in consequence thereof and shall at his own expense arrange to effect and maintain, not only until the virtual completion of the contract, but up to satisfactory completion of the defect liability period, if any, with any Nationalized Insurance Agency in the joint names of the Employer and the Tenderer against such risks and deposit such policy or policies with the Employer from time to time during the currency of this contract. The Tenderer shall similarly indemnify the Employer against all claims which may be made upon the employer whether under the Workmen's Compensation Act or any other statute in force during the currency of this contract or at common law in

respect of any employee of the Tenderer or any sub- Tenderer and shall at his own expense effect and maintain with an approved office a policy of insurance in the joint names of the employer and the Tenderer. (The name of the employer appearing being place first in the policy) against such risks and deposit such policy or policies with the Employer from time to time during the currency of the contract. The Tenderer shall be responsible for anything which may be excluded from the Insurance Policies above referred to and also for all other damages to any property arising out of and incidental to the negligent or defective carrying out of this contract. He shall also indemnify the Employer in respect of any cost charges or expenses arising out of any claim or proceedings and also in respect of any award of/or compensation of damages arising there from.

- 17.3 If the Tenderer fails to comply with the terms of these conditions, the employer may insure the works and may deduct the amount of the premiums paid from any moneys that may be payable or become payable to the Tenderer or may as an option, not release running payment to the Tenderer until the Tenderer shall have complied with the terms of this condition.
- 17.4. Such insurance, whether effected by the Employer or the Tenderer will no limit or bar the liability and obligation of the Tenderer to deliver the works to the Employer complete in all respects according to the contract. In case of loss or damage due to any of the aforesaid causes, the moneys payable under any such insurance shall be then received and retained by the Employer until the works are finally completed and satisfactorily maintained during the defect liability period including extended defect liability period. If any, and such moneys shall then be credited to the Tenderer in final settlement of accounts.
- 17.5 The employer shall be at liberty and is empowered to deduct the amount of any damage, compensation cost, charges and expenses arising or accruing from or in respect of any such claim or damage from any sum or sums due to or become due to the Tenderer including the retention amount.
- 17.6 The Tenderer shall as soon as any claim under the policy is settled or the work reinstated by the insurance office should elect to do so, proceed with all diligence with the completion of the works in the same manner as though misfortune/accident has not occurred and in all respects under the same conditions of contract. The contractor in case of rebuilding or reinstatement after the accident shall be entitled to such extension of time from the Employer as deemed fit.
- 17.7 The Tenderer shall deposit the original policy/policies and original receipts for the premium with the Employer within 10 (ten) days from the date of signing the contract/commencement of execution of works or unless otherwise instructed by the Employer.

17.8 Issue of Materials by the Employer:

For execution of work under this contract, Employer will not provide any Materials.



#### **17.9 General:**

- i) In case the Tenderer to procure materials for execution in time or if the Client feels the progress is delayed due to non-availability of materials at site, the client shall arrange to supply the required materials at site and the full procured cost of materials shall be deducted from the Tenderer's bill.
- ii) The Tenderer shall not have the option to refuse to take delivery of the stores mentioned above, and offered to him. No claim on this account shall be entertained.
- iii) All incidental charges for cartage at the site unloading, storage and safe custody of materials shall be borne by the Tenderer.

#### **18.0 Jurisdiction Clause:**

Any legal dispute arising out of the resultant contract will be subject to the jurisdiction of the Hyderabad & Secunderabad Courts, if the same cannot be resolved by mutual consent.

## Schedule-II

### 1.0 Special Conditions:

- i. The MAKES & Specifications mentioned against each item in the price schedule is to be strictly adhered. If any spurious material is received the Tenderer will be blacklisted and the same would be circulated in all the Govt. departments while confiscating the EMD amount.
- ii. The fabrication work should be carried out by the Certified welders only. Proof of certificates should be submitted to the In-charge of the site.
- iii. Welding rods should be of make Advani / Mangalam / ESAB only to be used for the welding of structures.
- iv. On insistence the Tenderer should submit the proof of source of procurement of materials in order to prove genuinity.
- v. If the Tenderer is a dealer /distributor of the materials he should submit copy of the dealership /distributorship certificate issued by the manufacturers.
- vi. The tenderer has to participate fully in the tender.
- vii. The Tenderer should accept for third party inspections appointed by the JETL.
- viii. The Successful Tenderer will be issued LOI for the contract.
- ix. Work should be carried out as per the drawings and if any changes as per the directions of the Engineer-in-charge of the site.

### **Schedule-III**

SCOPE OF SUPPLY AND TECHNICAL SPECIFICATIONS FOR SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR X 2 NOS., SCRAPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS) -2 NOS AND 5.0 M DIA X 5.0 M DEPTH THICKENER – 1 NO. AS PER THE ATTACHED DRAWINGS.

#### **The following are the Technical Specifications of the Lamella Clarifier**

##### **Quantity and Quality Specifications:**

1. Inlet Flow rate	: 100 – 120 m <sup>3</sup> /hr.
2. Inlet Quality of the Wastewater	
Turbidity	: 80 - 100 NTU
Suspended Solids	: 100 – 150 mg/l
Silica	: 50 - 80 mg/l
pH	: 7.0 – 7.5
3. Outlet Quality of the Wastewater	
Turbidity	: 15 -20 NTU
Suspended Solids	: < 5 mg/l
Silica	: 20 - 25 mg/l
pH	: 7.0 – 7.5

##### **Physical Specifications:**

1. Size of the Tank	: 3.5 m x 15.5 x 3.0 m
2. Height of the tank	: 2.5 m (Vertical)
3. Height of the tank	: 0.5 m (Cone portion)
4. Lamella Sheets	: 1.0 m x 1.5 m
5. Lamella Sheets spacing	: 100 mm
6. Lamella Sheets angle of inclination	: 60 degrees
7. Launder size	: 0.3 m
8. Central well size	: 0.9 m
9. No of Lamella Sheets	: As per BOQ

- |   |                          |
|---|--------------------------|
| 10. Thickness of Lamella Sheets   | : 5 mm                   |
| 11. Size of the Orifice   | : 50 mm                  |
| 12. Inlet, Outlet & bottom-line size  | : 200 mm                 |
| 13. Size of Tray on the central Well  | : 0.8 m x 0.3 m x 15.5 m |
| 14. Size of the holes in tray   | : 10 mm                  |
| 15. Height of the Lamella Clarifiers from NGL: 6.25 m and 5.25 m  |                          |
| 16. Scum / Foam on the Surface of the Lamella Clarifier removal mechanism – Auto Operation and has the provision to connect to PLC. |                          |
| 17. Fabrication and Erection of the Lamella Clarifiers as per the drawing provided.   |                          |

**Material of Construction:**

- |   |                  |
|---|------------------|
| 1. Lamella Clarifier Tank, Fasteners and Hardware | : As per BOQ     |
| 2. Lamella Clarifier Sheets                       | : FRP as per BOQ |

**Performance Specifications:**

- |                       |        |
|-----------------------|--------|
| 1. Removal Efficiency |        |
| a. Suspended Solids   | : 95 % |
| b. Turbidity          | : 80 % |
| c. Silica             | : 65 % |

**Coagulant / Chemical Dosing System:**

Coagulant / Chemical mixing tanks of capacity 2.0 KL with 0.5 m free board – 4 Nos.

MOC – SS 304

Thickness – 6 mm

**Dosing Pumps:**

0.5 HP Dosing pumps (metering pumps) of capacity 0 - 100 lit/hr (compatibility to Automation to connect to PLC) – 8 Nos. (4 Nos. Acid Proof & 4 Nos. Alkali Proof) with required SS pipelines, valves, fittings etc.

Mixers – 0.5 HP Capacity Mixers - 4 Nos.

MOC – SS 304 Shaft with 100 RPM with Speed Controlling System

**M.S. STRUCTURE:** All M.S. structures should be sand blasted and painted as per BOQ.

**JETL SCOPE** – All civil foundations, Inlet & Outlet pipe connections are in the scope of JETL.

**The following are the Technical Specifications of the Scraper Mechanisms**

Scraper Mechanism for the following tanks

a) Clarifier – 2 Nos.

Dia. of the Tank - 7.0 m

Depth - 4.0 + 0.3 m (F.B.)

Gear Box Motor – Crompton Greeves / ABB

Primary Gear Box - Indo fab / Elicon / Premium Transmission

Gear Box Platform and Feed well

MOC –

Platform Beam Size – 300 mm

Thickness of Central drum – 6 mm

Thickness of Checkered Plate – 6 mm

b) Sludge Thickener - 1

Dia. of the Tank - 5.0 m

Depth - 5.0 + 0.3 m (F.B.)

Gear Box Motor – Crompton Greeves / ABB

Primary Gear Box – Indo fab / Elicon / Premium Transmission

Gear Box Platform and Feed well

MOC –

Platform Beam Size – 300 mm

Thickness of Central Drum – 6 mm

Thickness of Checkered Plate – 6 mm

**MOC OF THE SCRAPER MECHANISM STRUCTURE:** Fabrication of Scraper Mechanism and central drum with M.S. All M.S. structures should be sand blasted and painted with two coats of epoxy paint.

**M.S. STRUCTURE** – Walkways with Toe Flat, Hand Rails (as per drawing) with painting.

The gearbox should be placed below the walkway.

**CLIENT'S SCOPE** – All civil foundations, Inlet & Outlet pipe connections are in the scope of JETL.

### PRICE SCHEDULE

SUPPLY, FABRICATION, ERECTION & COMMISSIONING OF LAMELLA CLARIFIER OF CAPACITY 100 KL/HR x 2 Nos. AS PER THE ATTACHED DRAWINGS, SCRAPER MECHANISMS FOR 7.0 M DIA X 4.0 M DEPTH SLUDGE SETTLING TANKS (CLARIFIERS) -2 NOS AND 5.0 M DIA X 5.0 M DEPTH THICKENER – 1 NO. AT JETL, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD, TELANGANA, INDIA

S.NO.	DESCRIPTION	QTY.	UNIT	PRICE, Rs.		TOTAL AMOUNT Rs.	
				In Figures	In words	In Figures	In words
1	Lamella Clarifier	2	Nos.				
2	Scraper Mechanisms	3	Nos.				
	<b>Total Amount</b>						

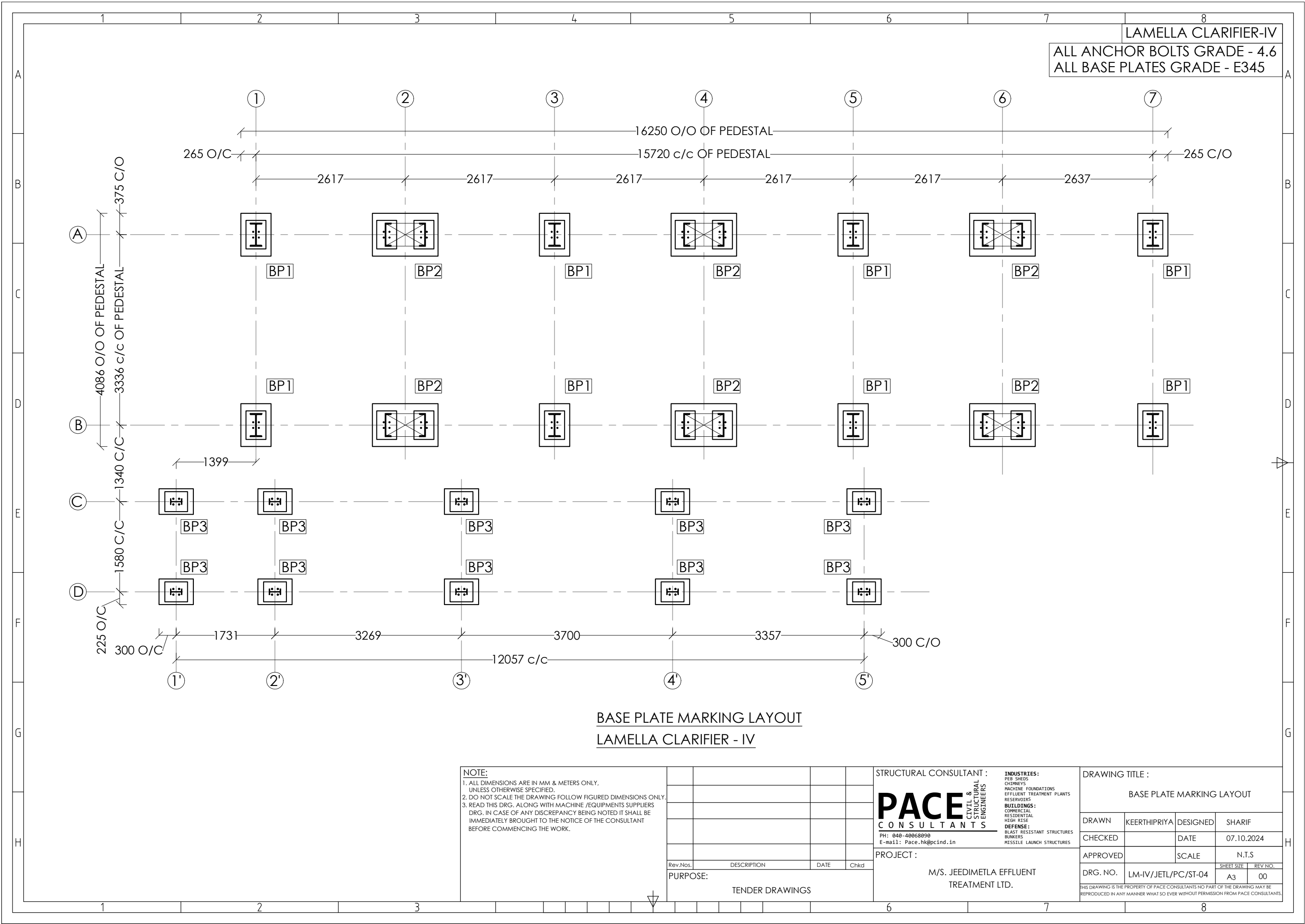
**DRAWINGS:**

**Lamella Clarifier – III drawings enclosed as an Annexure – IA**

**Lamella Clarifier – IV drawings enclosed as an Annexure – IB**

**BILL OF QUANTITIES (BOQ):**

**Enclosed as an Annexure – II**



LAMELLA CLARIFIER-IV  
ALL ANCHOR BOLTS GRADE - 4.6  
ALL BASE PLATES GRADE - E345

BASE PLATE MARKING LAYOUT  
LAMELLA CLARIFIER - IV

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

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PURPOSE:	TENDER DRAWINGS		

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CIVIL & STRUCTURAL ENGINEERS

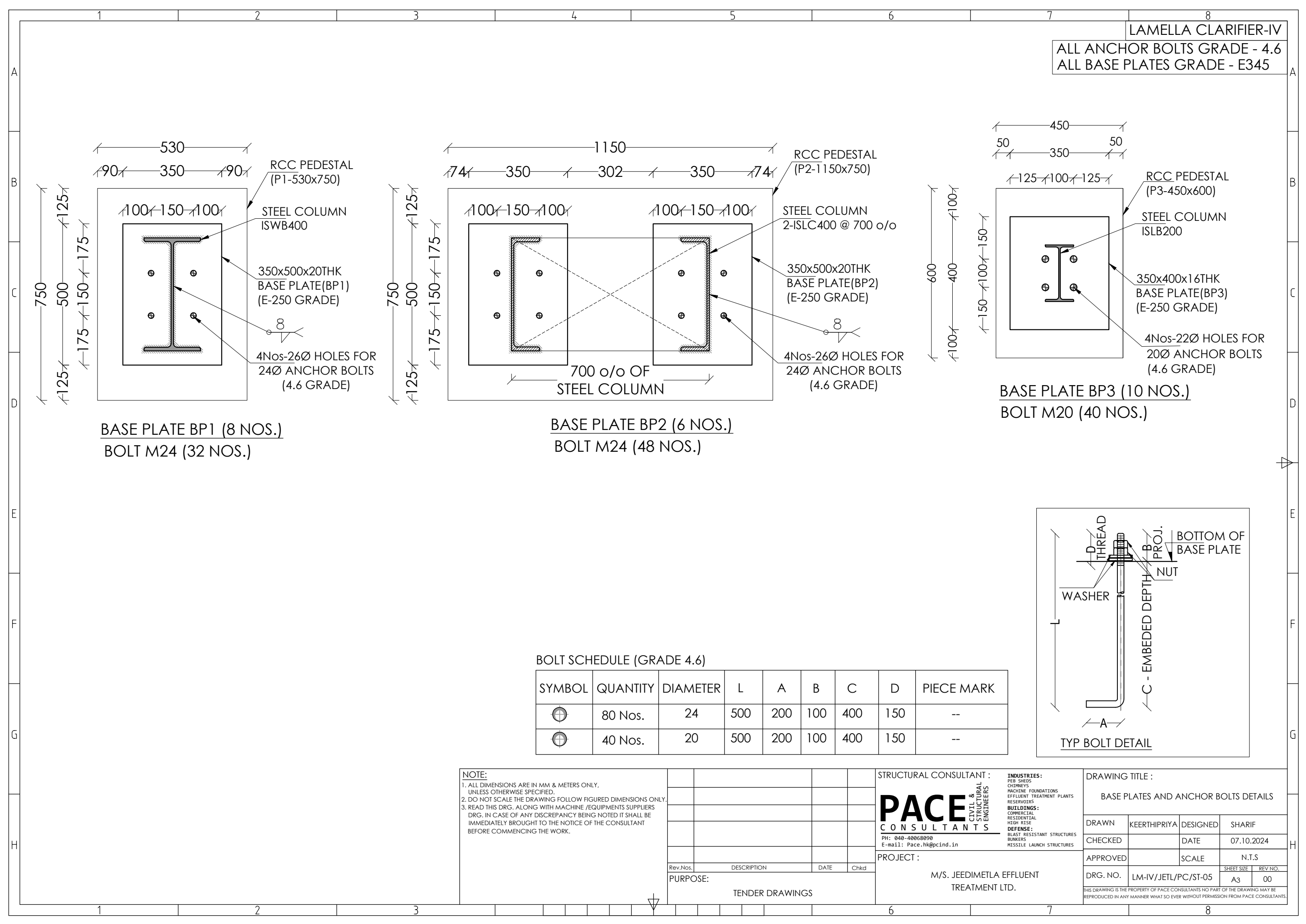
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PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

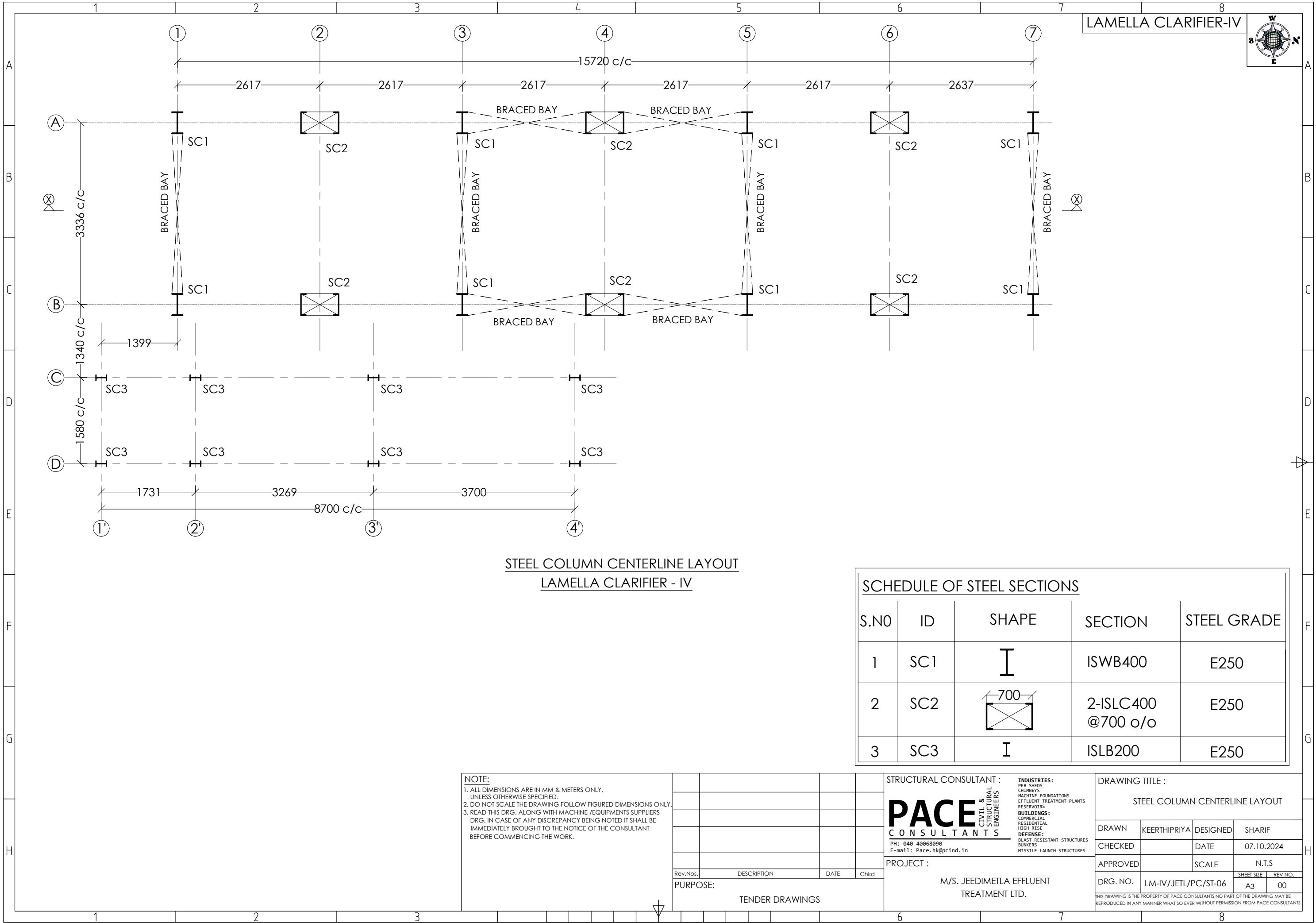
PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWING TITLE : BASE PLATE MARKING LAYOUT			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-04	SHEET SIZE	REV NO.
		A3	00

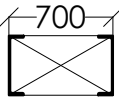
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STEEL COLUMN CENTERLINE LAYOUT  
LAMELLA CLARIFIER - IV

SCHEDULE OF STEEL SECTIONS				
S.NO	ID	SHAPE	SECTION	STEEL GRADE
1	SC1	I	ISWB400	E250
2	SC2		2-ISLC400 @700 o/o	E250
3	SC3	I	ISLB200	E250

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
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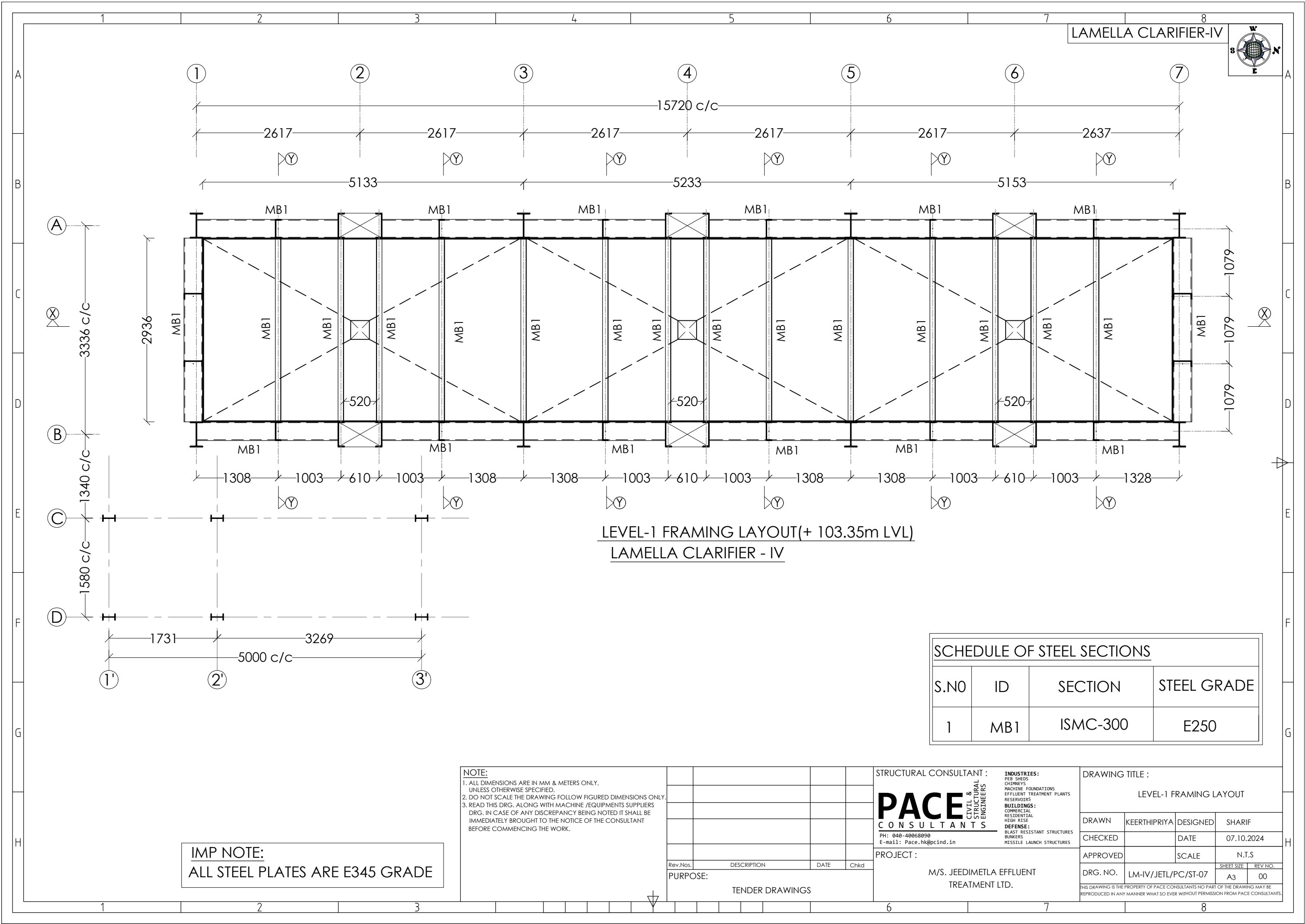
INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
STEEL COLUMN CENTERLINE LAYOUT

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-06	SHEET SIZE	A3
		REV NO.	00

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LEVEL-1 FRAMING LAYOUT(+ 103.35m LVL)  
LAMELLA CLARIFIER - IV

SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	MB1	ISMC-300	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
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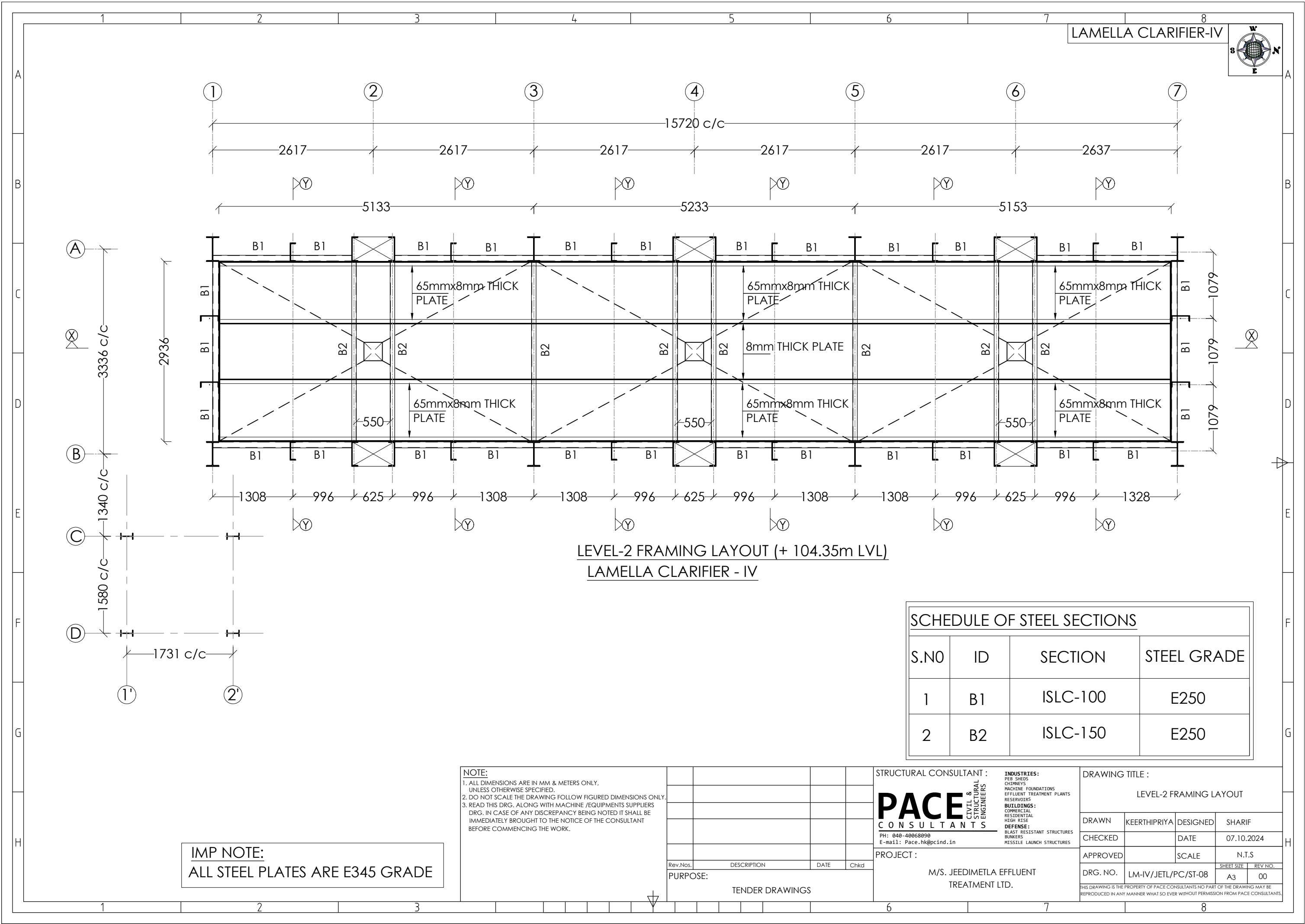
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PURPOSE: TENDER DRAWINGS			

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PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWING TITLE :			
LEVEL-1 FRAMING LAYOUT			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-07	SHEET SIZE	REV NO.
		A3	00

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LEVEL-2 FRAMING LAYOUT (+ 104.35m LVL)  
LAMELLA CLARIFIER - IV

SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250
2	B2	ISLC-150	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

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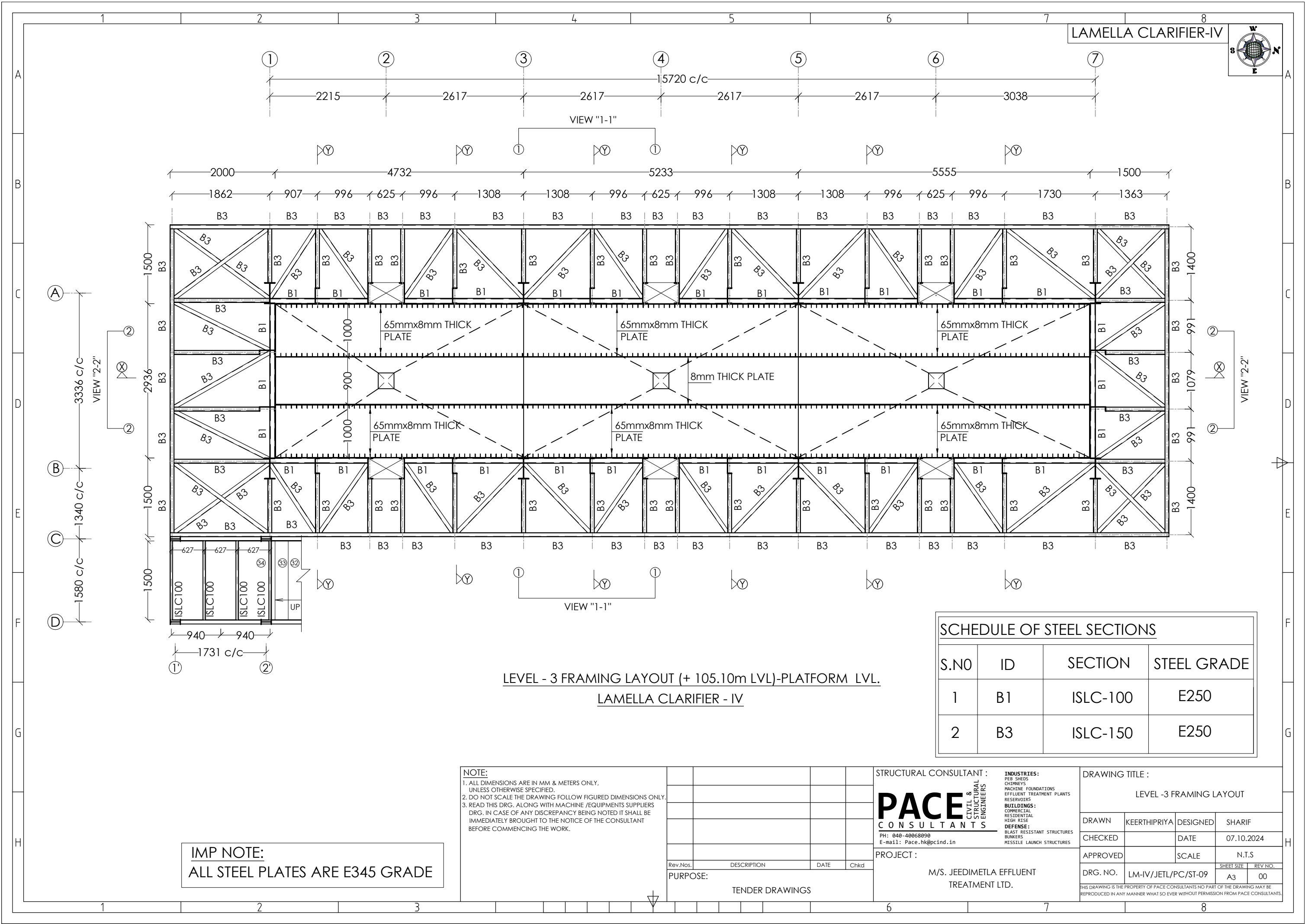
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PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
LEVEL-2 FRAMING LAYOUT

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWING TITLE :			
LEVEL-2 FRAMING LAYOUT			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-08	SHEET SIZE	A3
		REV NO.	00

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LEVEL - 3 FRAMING LAYOUT (+ 105.10m LVL)-PLATFORM LVL.  
LAMELLA CLARIFIER - IV

SCHEDULE OF STEEL SECTIONS

S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250
2	B3	ISLC-150	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
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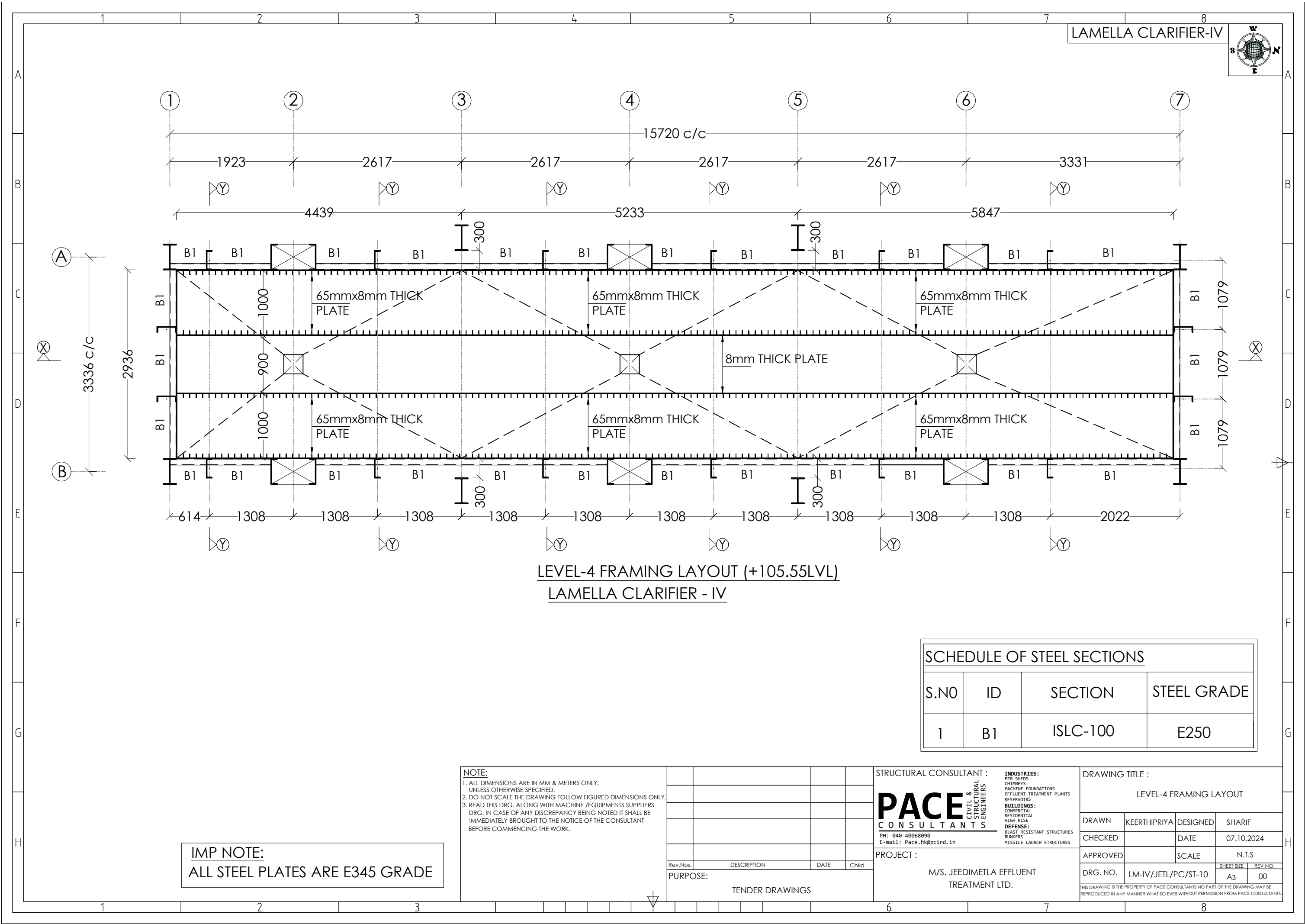
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INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE : LEVEL -3 FRAMING LAYOUT			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-09	SHEET SIZE	A3
		REV NO.	00

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LEVEL-4 FRAMING LAYOUT (+105.55LVL)  
LAMELLA CLARIFIER - IV

SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
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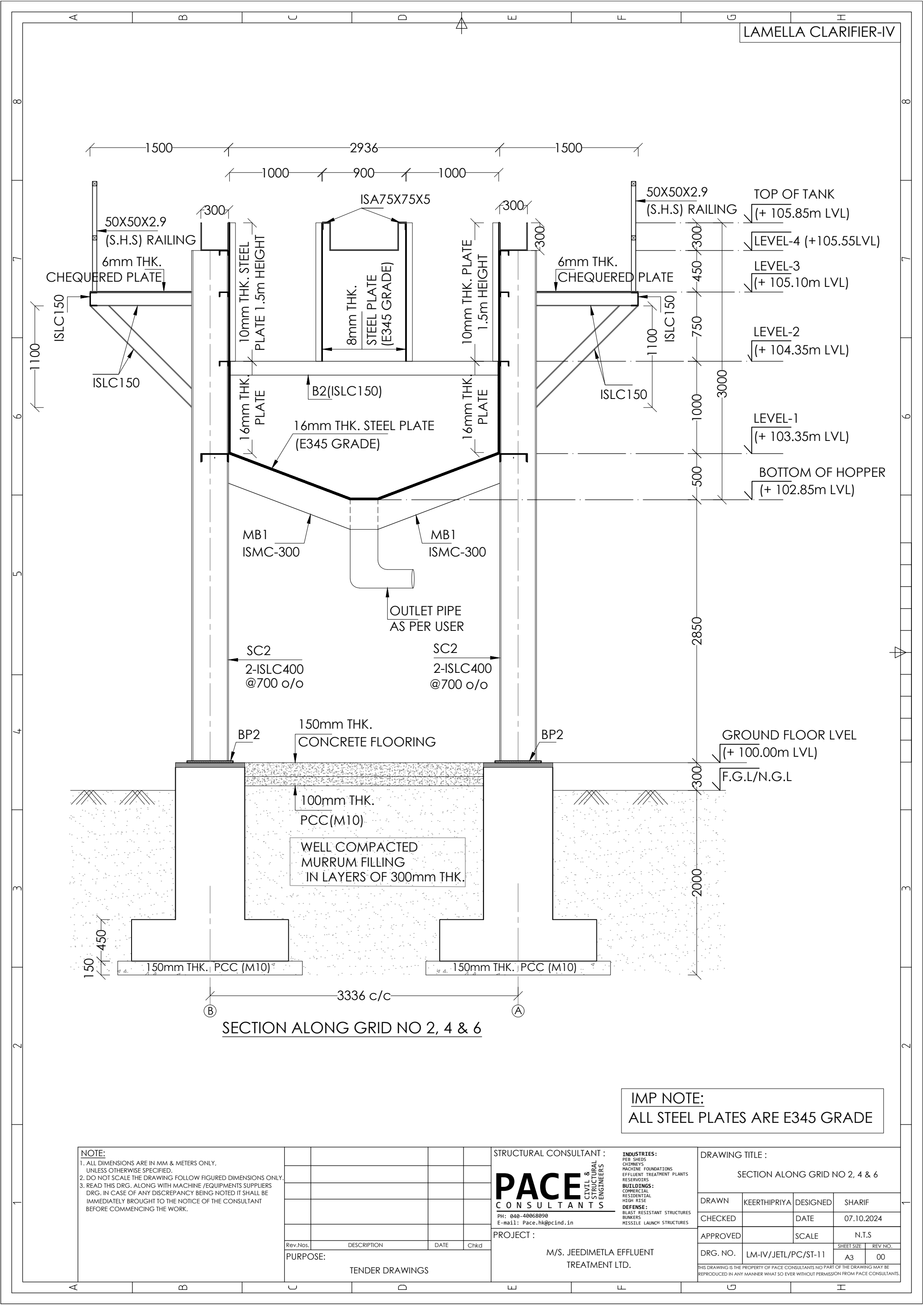
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CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
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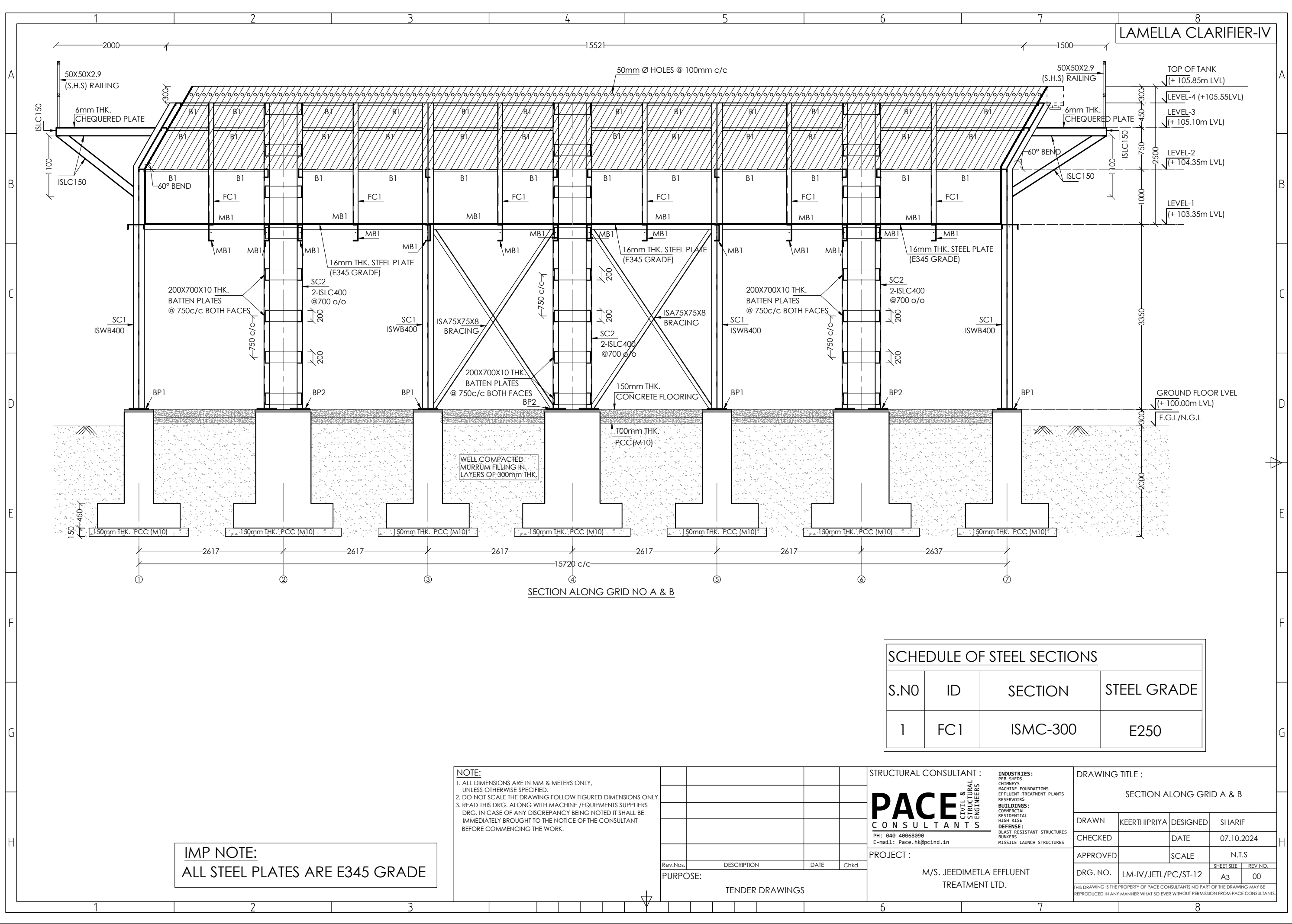
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APPROVED		SCALE	N.T.S
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		REV NO.	00

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

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LAMELLA CLARIFIER-IV

SECTION ALONG GRID NO A & B

SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	FC1	ISM300	E250

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
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IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

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CIVIL & STRUCTURAL ENGINEERS

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

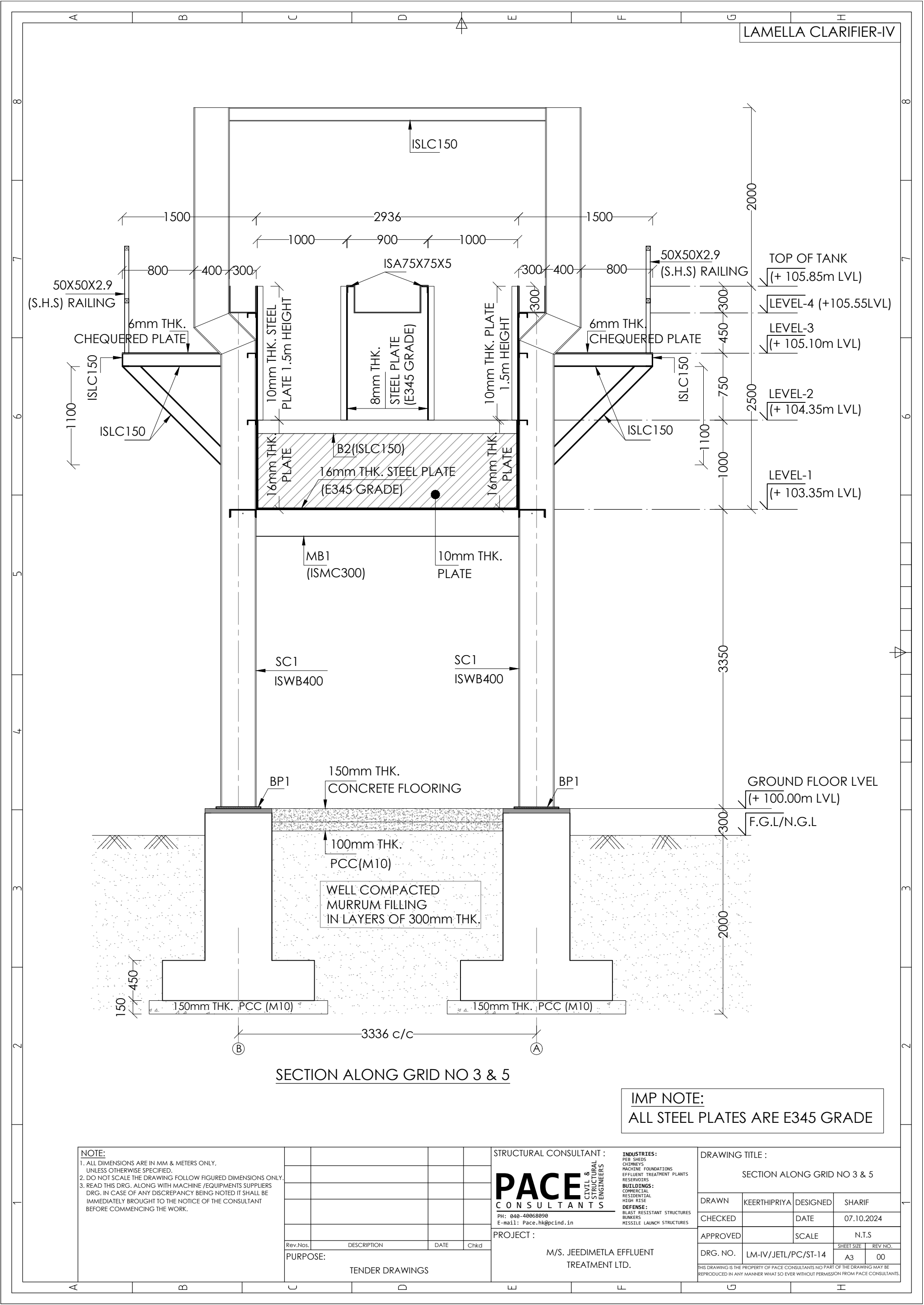
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RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :			
SECTION ALONG GRID A & B			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-12	SHEET SIZE	REV NO.
		A3	00

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SECTION ALONG GRID NO 3 & 5

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
	PURPOSE:		
	TENDER DRAWINGS		

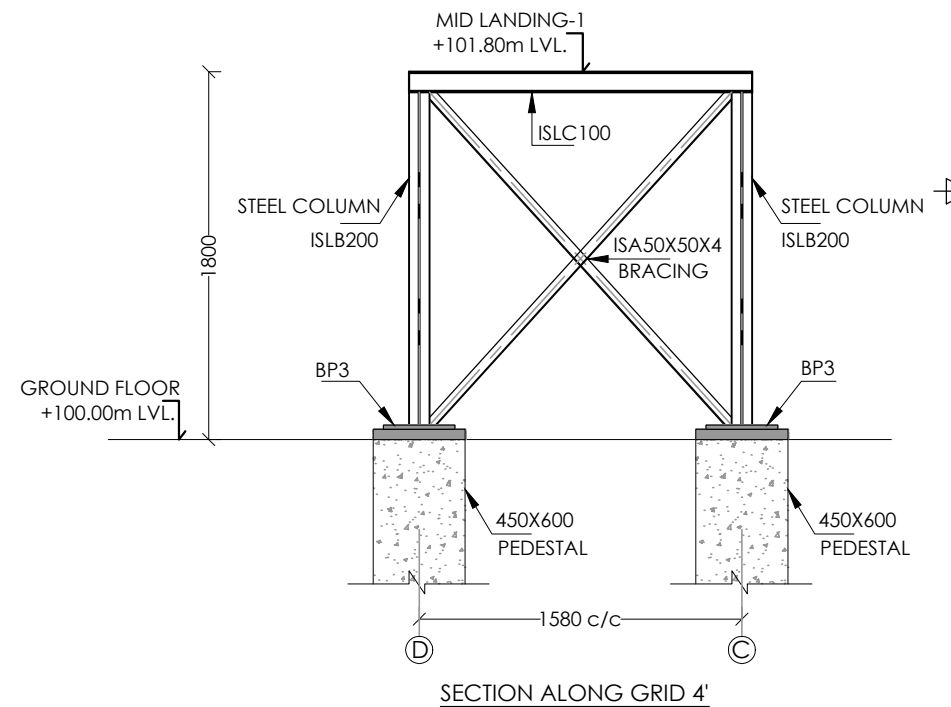
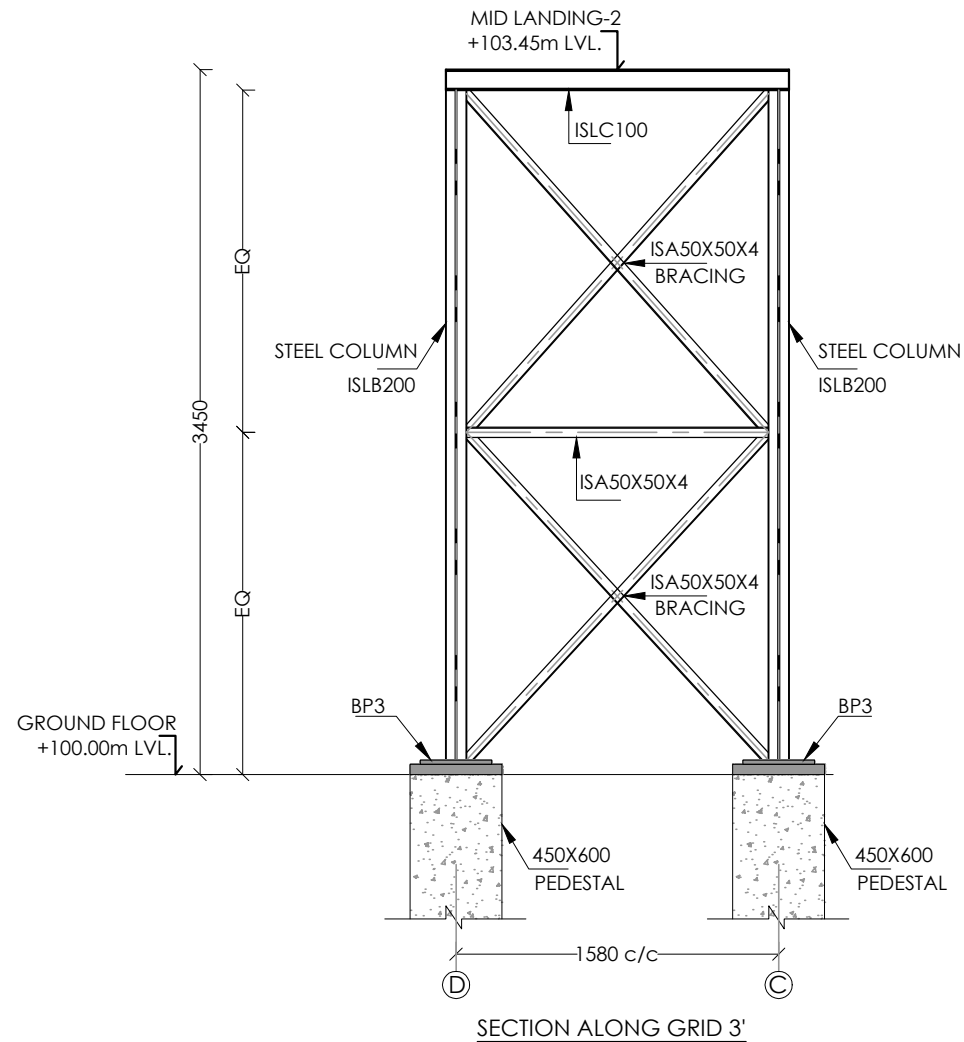
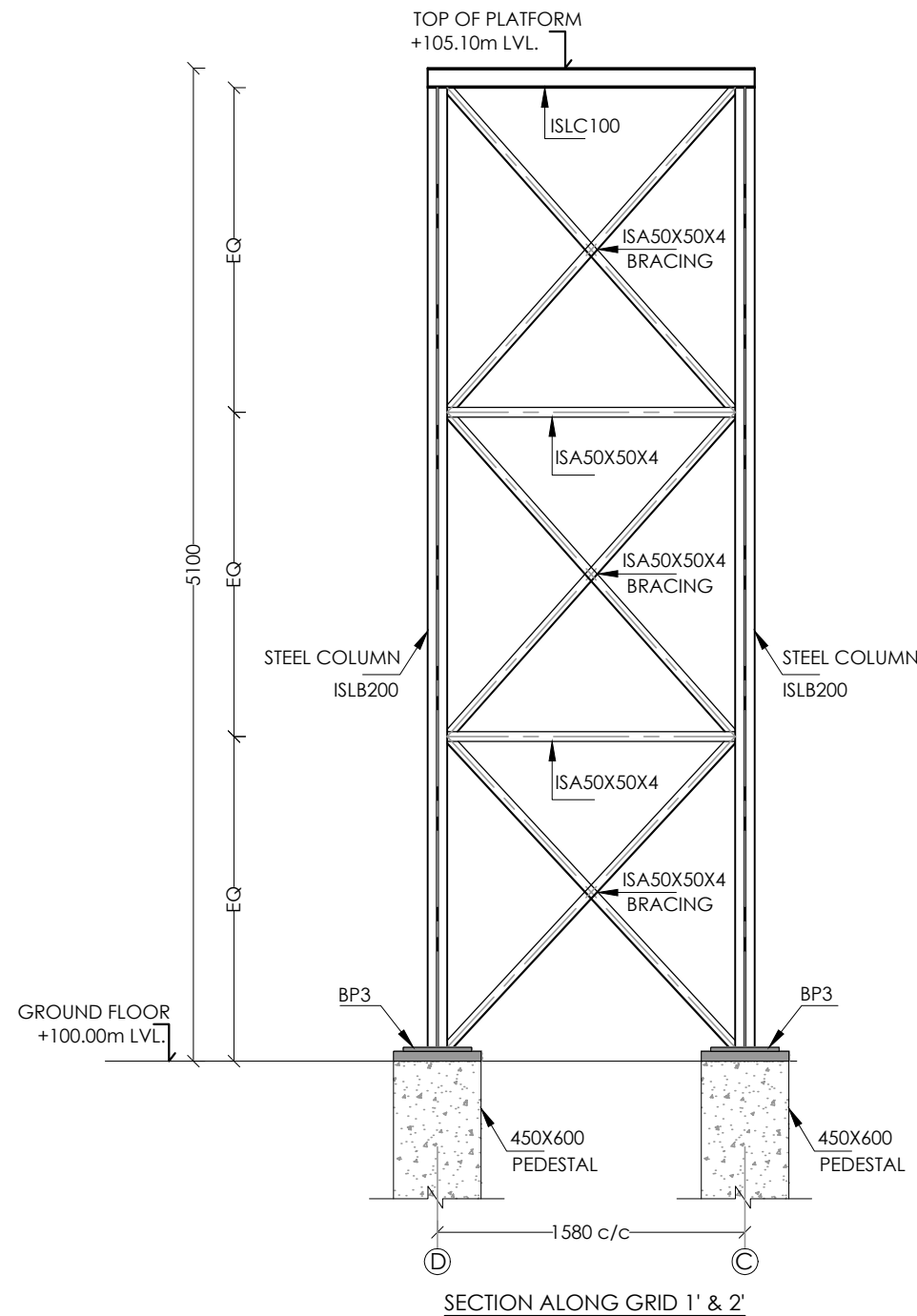
STRUCTURAL CONSULTANT :  
**PACE** CONSULTANTS  
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E-mail: Pace.hk@pcind.in

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
PACKING FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
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DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :			
SECTION ALONG GRID NO 3 & 5			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-14	SHEET SIZE	REV NO.
		A3	00

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NOTE:  
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Rev.Nos.	DESCRIPTION	DATE	Chkd
	PURPOSE:		
	TENDER DRAWINGS		

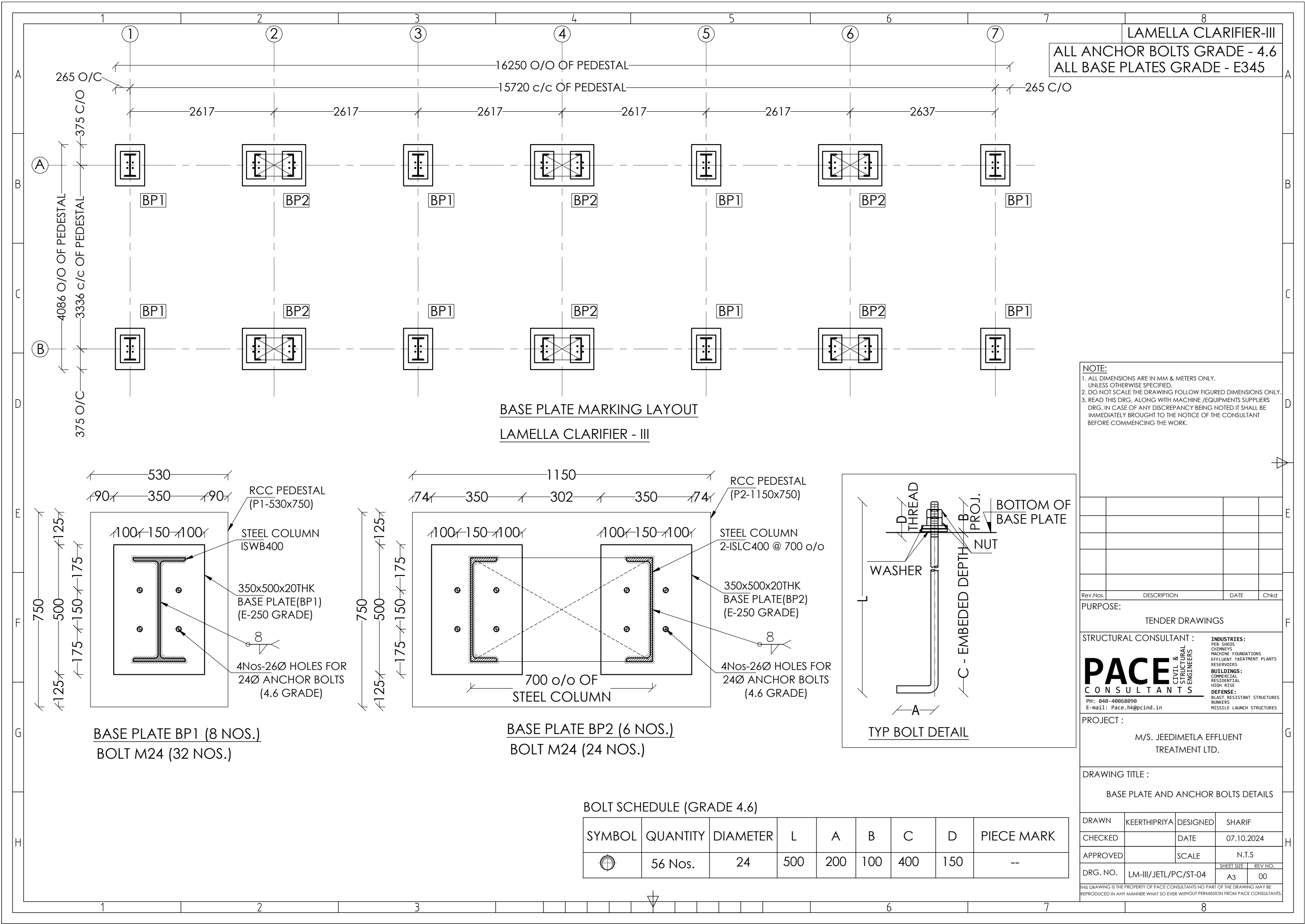
STRUCTURAL CONSULTANT :  
**PACE**  
CONSULTANTS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

PROJECT :  
M/S. JEEDIMETLA EFFLUENT  
TREATMENT LTD.

DRAWING TITLE :			
COLUMN BRACING DETAILS			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-IV/JETL/PC/ST-16	SHEET SIZE	REV NO.
		A3	00

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LAMELLA CLARIFIER-III

ALL ANCHOR BOLTS GRADE - 4.6  
ALL BASE PLATES GRADE - E345

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.No.	DESCRIPTION	DATE	Chkd
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PURPOSE:

TENDER DRAWINGS

STRUCTURAL CONSULTANT :

PACE

CONSULTANTS

PH: 040-40068090  
E-mail: Pace.hk@pcind.in

CIVIL & STRUCTURAL ENGINEERS

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

PROJECT :

M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWING TITLE :

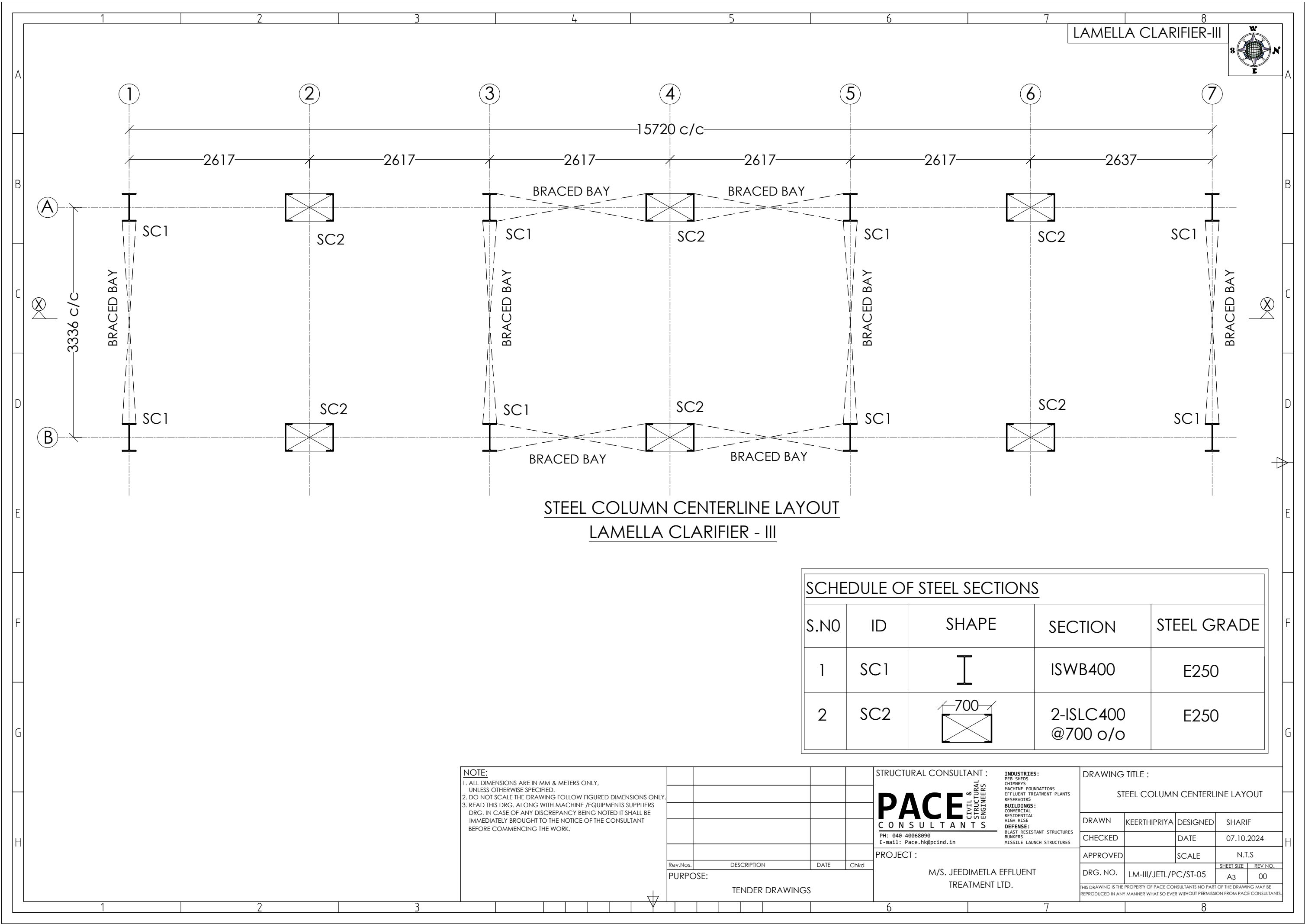
BASE PLATE AND ANCHOR BOLTS DETAILS

DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-III/JETL/PC/ST-04	SHEET SIZE	REV NO.
		A3	00

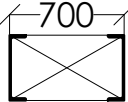
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BOLT SCHEDULE (GRADE 4.6)

SYMBOL	QUANTITY	DIAMETER	L	A	B	C	D	PIECE MARK
	56 Nos.	24	500	200	100	400	150	--



STEEL COLUMN CENTERLINE LAYOUT  
LAMELLA CLARIFIER - III

SCHEDULE OF STEEL SECTIONS				
S.NO	ID	SHAPE	SECTION	STEEL GRADE
1	SC1	I	ISWB400	E250
2	SC2		2-ISLC400 @700 o/o	E250

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE:			
TENDER DRAWINGS			

STRUCTURAL CONSULTANT :  
**PACE**  
CONSULTANTS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

CIVIL & STRUCTURAL ENGINEERS

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

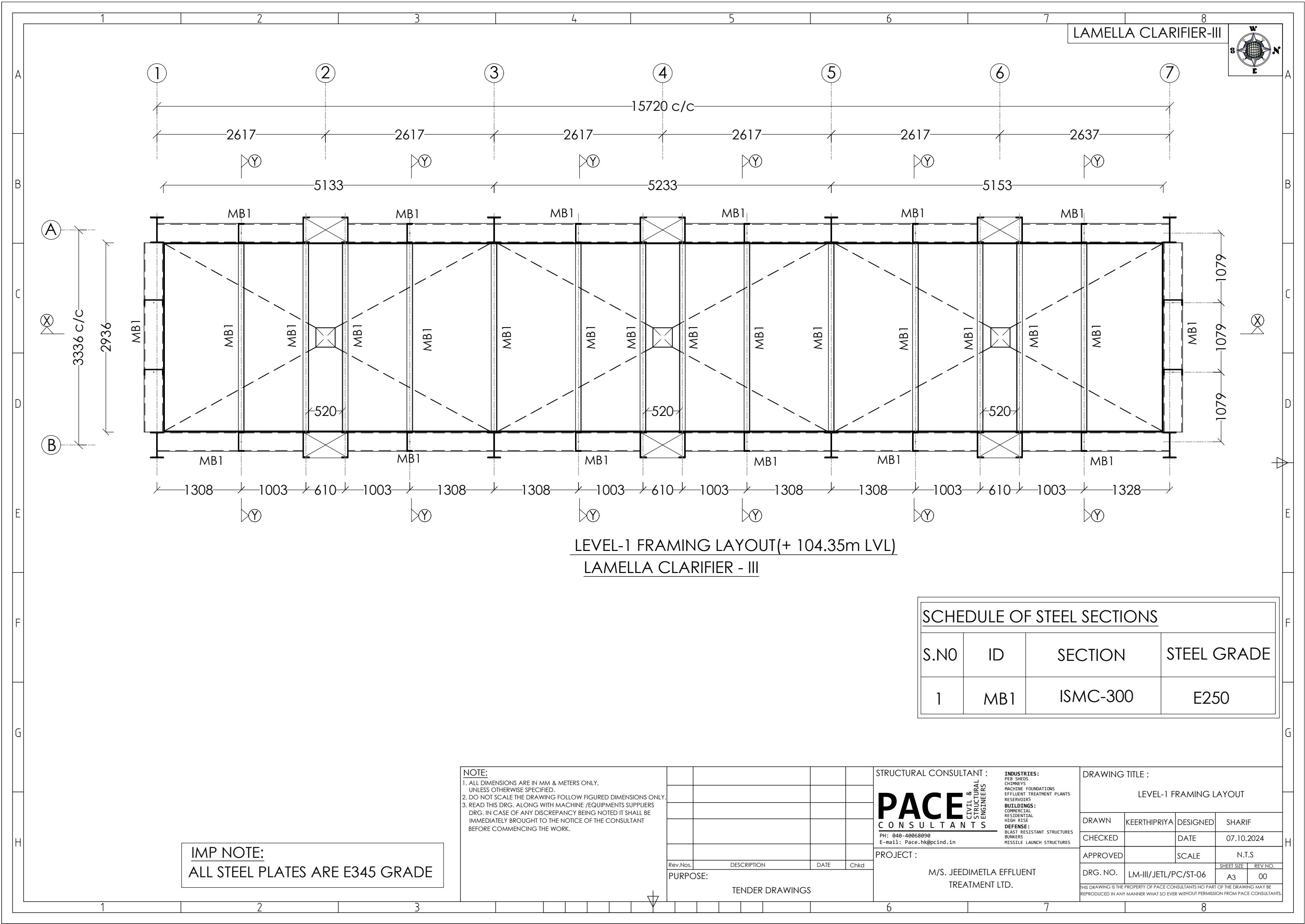
DRAWING TITLE :  
STEEL COLUMN CENTERLINE LAYOUT

DRAWN: KEERTHIPRIYA  
CHECKED:   
APPROVED:   
DRG. NO. LM-III/JETL/PC/ST-05

DESIGNED: SHARIF  
DATE: 07.10.2024  
SCALE: N.T.S  
SHEET SIZE: A3  
REV NO.: 00

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

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LEVEL-1 FRAMING LAYOUT(+ 104.35m LVL)  
LAMELLA CLARIFIER - III

SCHEDULE OF STEEL SECTIONS

S.NO	ID	SECTION	STEEL GRADE
1	MB1	ISM-C-300	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

STRUCTURAL CONSULTANT :  
**PACE** CONSULTANTS  
CIVIL & STRUCTURAL ENGINEERS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

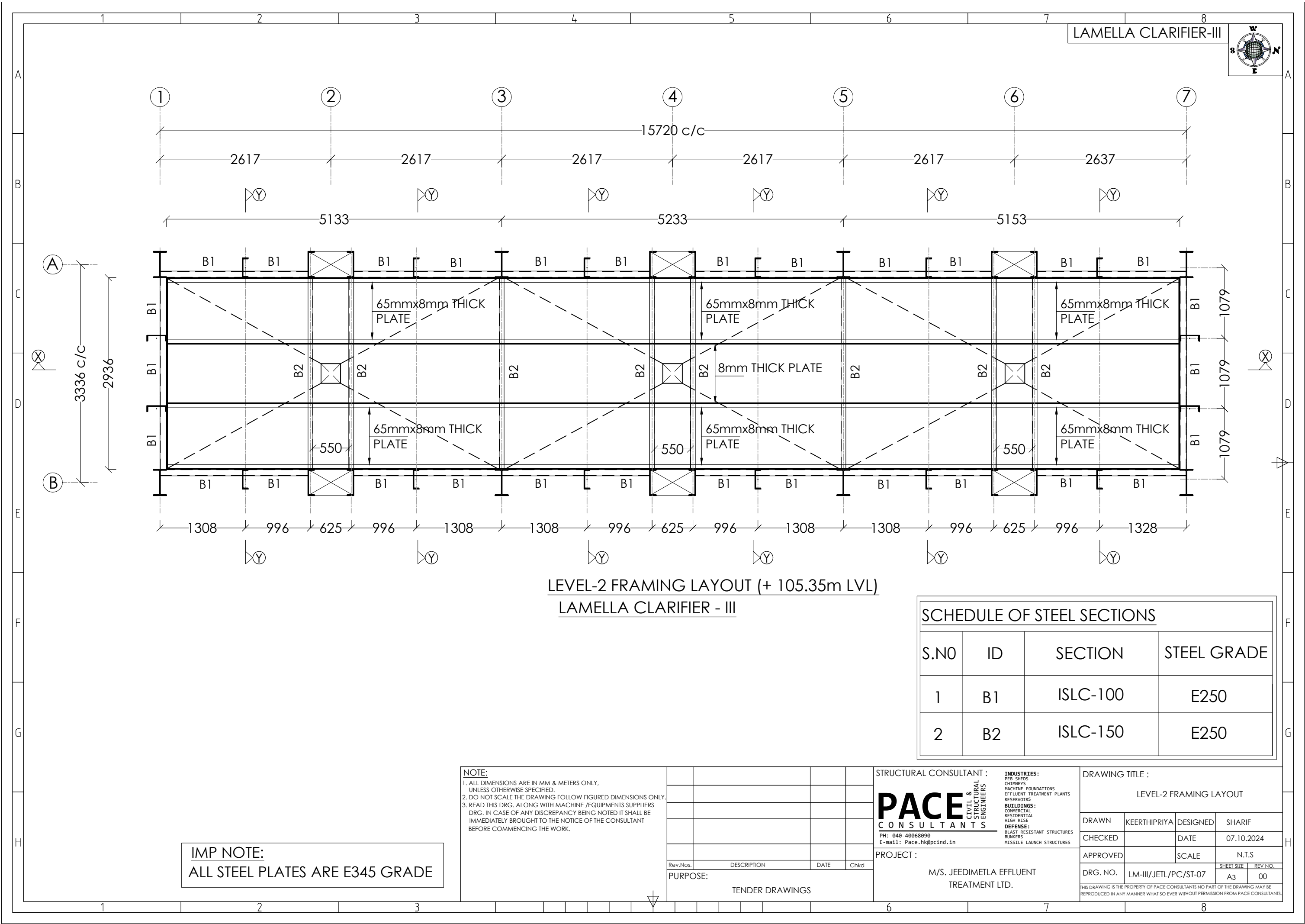
INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
LEVEL-1 FRAMING LAYOUT

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-III/JETL/PC/ST-06	SHEET SIZE	A3
		REV NO.	00

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LEVEL-2 FRAMING LAYOUT (+ 105.35m LVL)  
LAMELLA CLARIFIER - III

SCHEDULE OF STEEL SECTIONS

S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250
2	B2	ISLC-150	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

STRUCTURAL CONSULTANT :  
**PACE**  
CONSULTANTS  
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E-mail: Pace.hk@pcind.in

CIVIL & STRUCTURAL ENGINEERS

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
LEVEL-2 FRAMING LAYOUT

DRAWN  
KEERTHIPRIYA

DESIGNED  
SHARIF

CHECKED

DATE  
07.10.2024

APPROVED

SCALE  
N.T.S

DRG. NO.  
LM-III/JETL/PC/ST-07

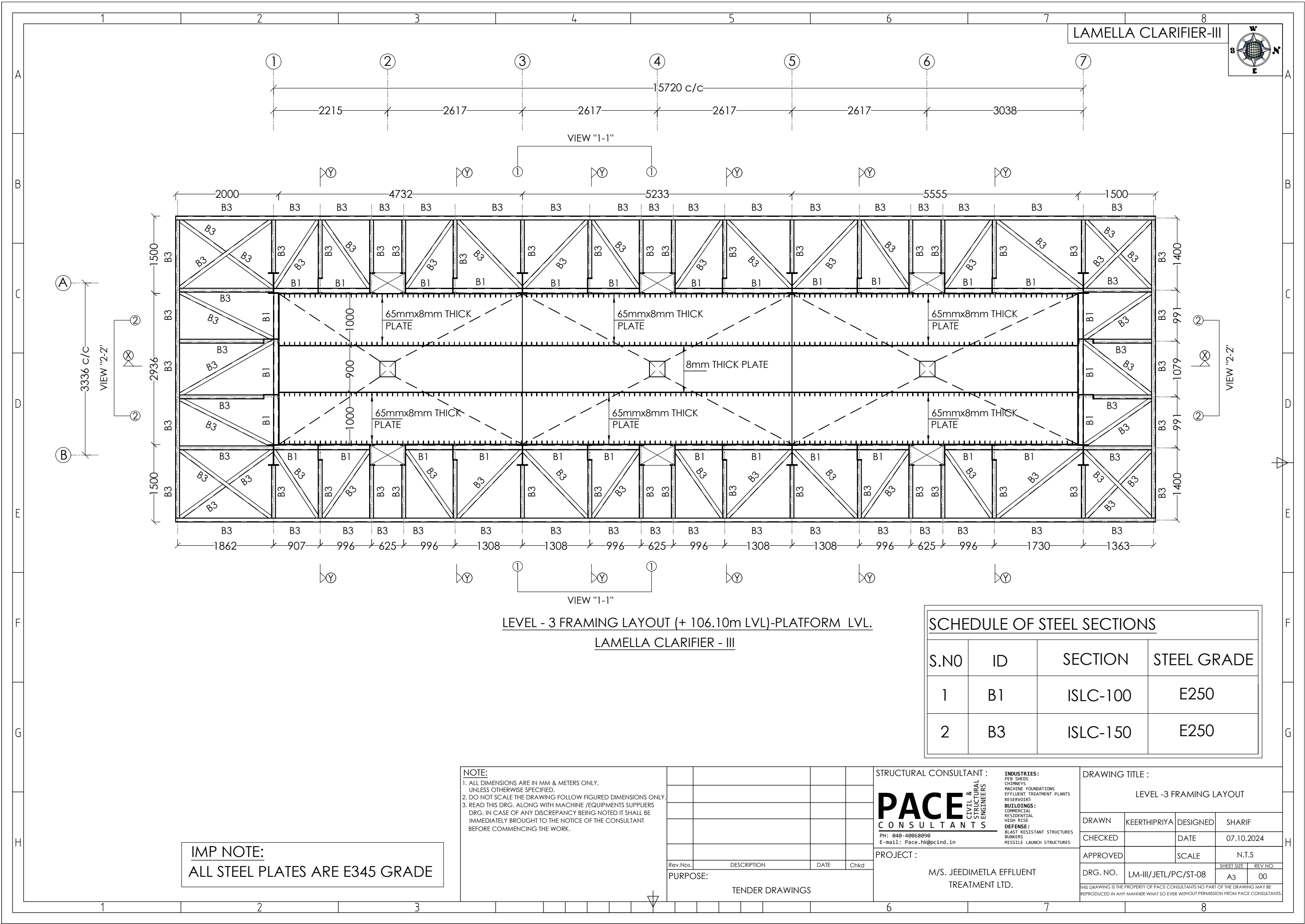
SHEET SIZE  
A3

REV NO.  
00

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

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LEVEL - 3 FRAMING LAYOUT (+ 106.10m LVL)-PLATFORM LVL.  
LAMELLA CLARIFIER - III

SCHEDULE OF STEEL SECTIONS

S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250
2	B3	ISLC-150	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

- NOTE:
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.
  2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
  3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE:	TENDER DRAWINGS		

STRUCTURAL CONSULTANT :  
**PACE**  
CONSULTANTS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

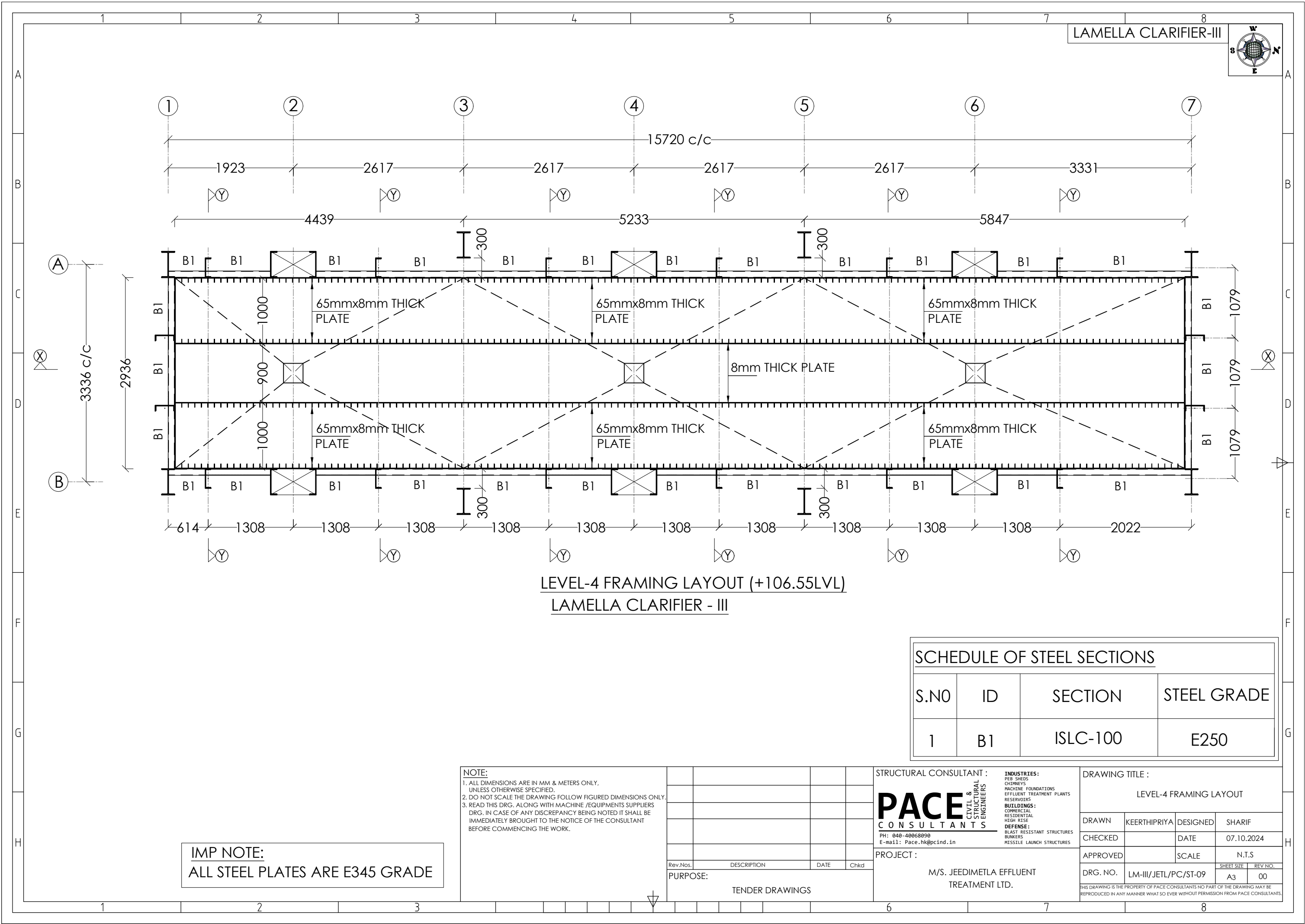
INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

PROJECT :  
M/S. JEEDIMETLA EFFLUENT  
TREATMENT LTD.

DRAWING TITLE :  
LEVEL -3 FRAMING LAYOUT

DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-III/JETL/PC/ST-08	SHEET SIZE	A3
		REV NO.	00

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LEVEL-4 FRAMING LAYOUT (+106.55LVL)  
LAMELLA CLARIFIER - III

SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	B1	ISLC-100	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
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3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

STRUCTURAL CONSULTANT :  
**PACE** CONSULTANTS  
CIVIL & STRUCTURAL ENGINEERS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

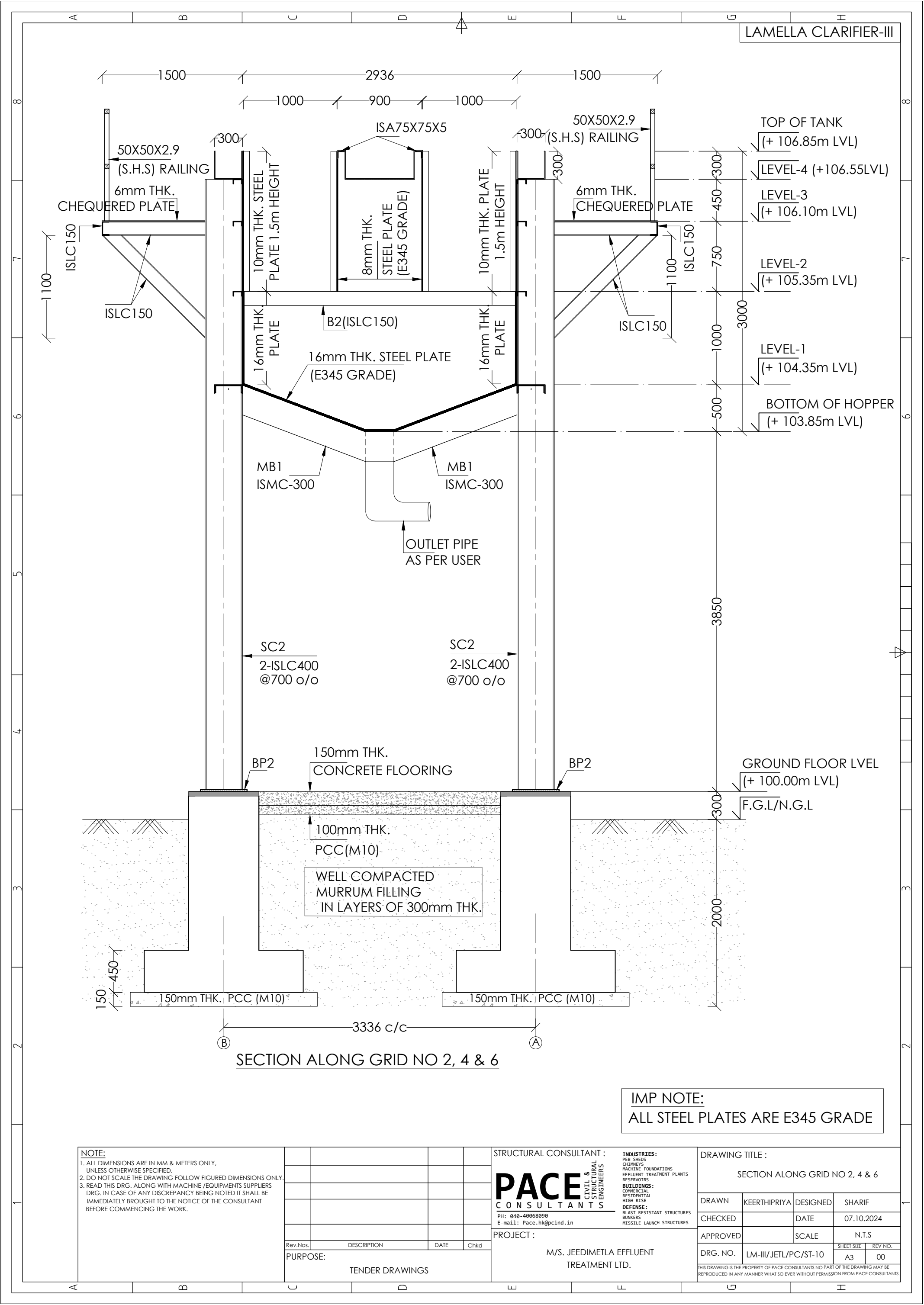
INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
LEVEL-4 FRAMING LAYOUT

PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

DRAWING TITLE : LEVEL-4 FRAMING LAYOUT			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-III/JETL/PC/ST-09	SHEET SIZE	A3
		REV NO.	00

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IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
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Rev.Nos.	DESCRIPTION	DATE	Chkd
	PURPOSE:		
	TENDER DRAWINGS		

STRUCTURAL CONSULTANT :  
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CONSULTANTS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

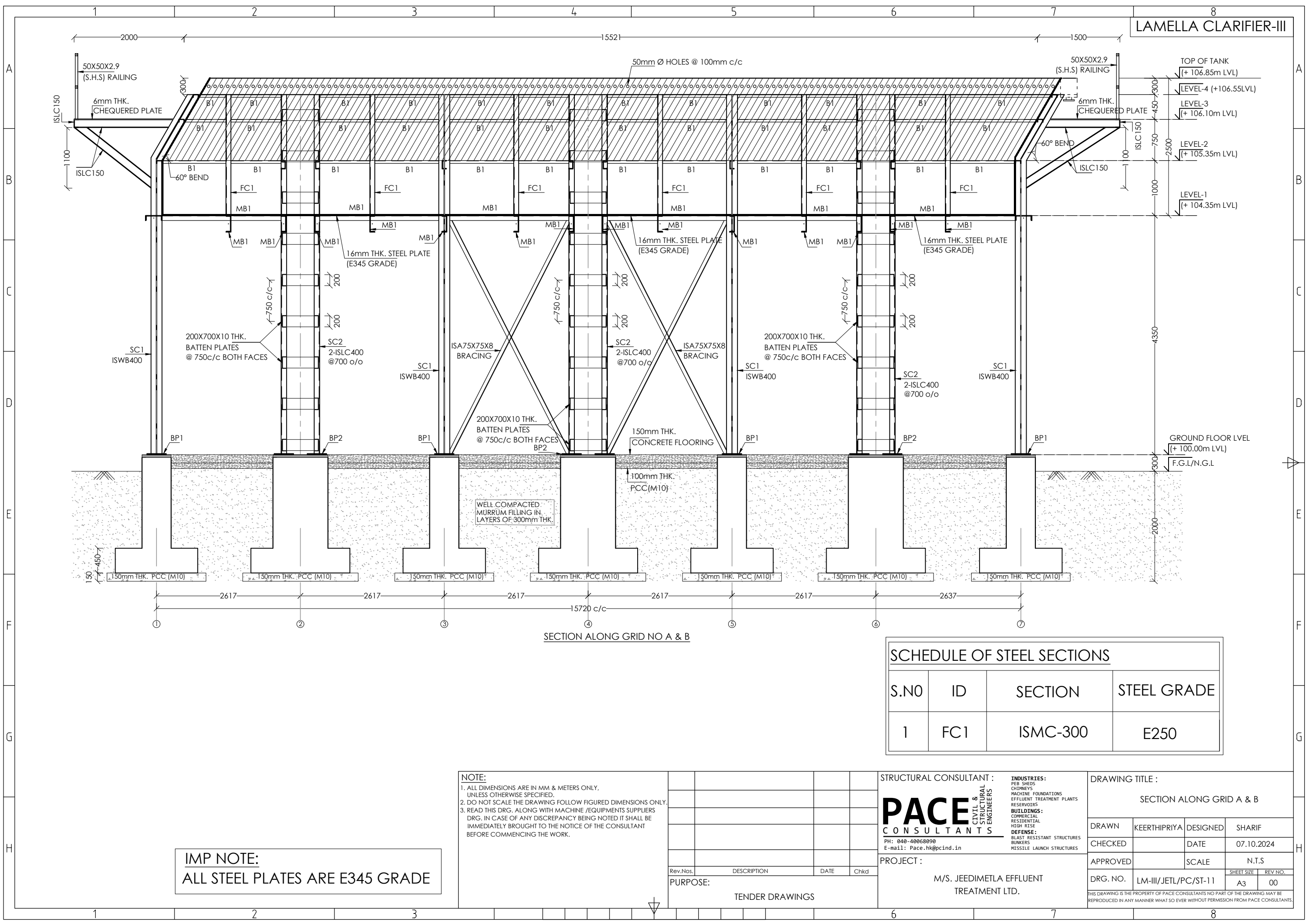
INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
PACKING FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :  
SECTION ALONG GRID NO 2, 4 & 6

DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S

DRG. NO.	LM-III/JETL/PC/ST-10	SHEET SIZE	A3	REV NO.	00
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SCHEDULE OF STEEL SECTIONS			
S.NO	ID	SECTION	STEEL GRADE
1	FC1	ISMC-300	E250

IMP NOTE:  
ALL STEEL PLATES ARE E345 GRADE

NOTE:  
1. ALL DIMENSIONS ARE IN MM & METERS ONLY, UNLESS OTHERWISE SPECIFIED.  
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.  
3. READ THIS DRG. ALONG WITH MACHINE /EQUIPMENTS SUPPLIERS DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.

Rev.Nos.	DESCRIPTION	DATE	Chkd
PURPOSE: TENDER DRAWINGS			

STRUCTURAL CONSULTANT :  
**PACE**  
CONSULTANTS  
PH: 040-40068090  
E-mail: Pace.hk@pcind.in

CIVIL & STRUCTURAL ENGINEERS

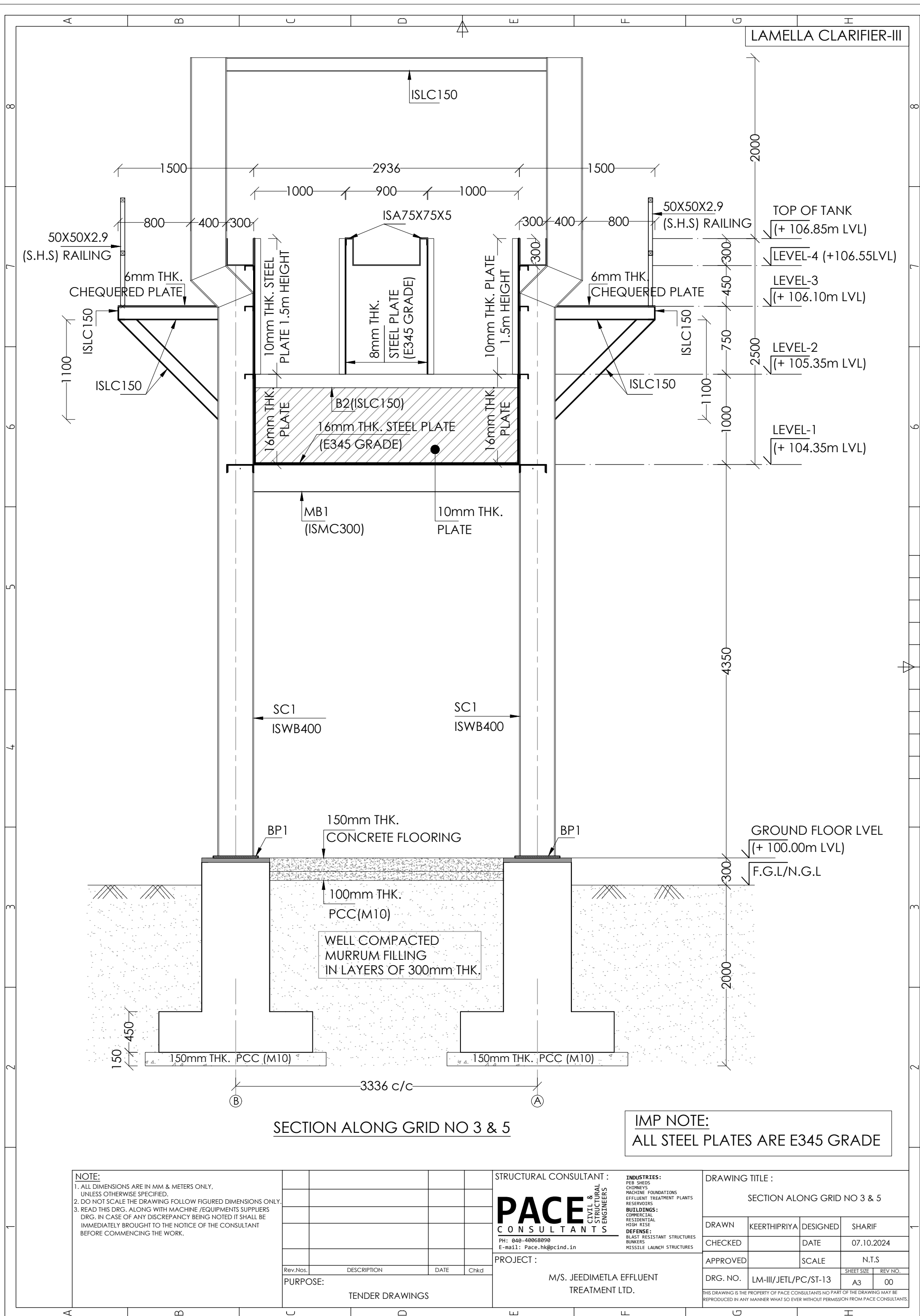
PROJECT :  
M/S. JEEDIMETLA EFFLUENT TREATMENT LTD.

INDUSTRIES:  
PEB SHEDS  
CHIMNEYS  
MACHINE FOUNDATIONS  
EFFLUENT TREATMENT PLANTS  
RESERVOIRS  
BUILDINGS:  
COMMERCIAL  
RESIDENTIAL  
HIGH RISE  
DEFENSE:  
BLAST RESISTANT STRUCTURES  
BUNKERS  
MISSILE LAUNCH STRUCTURES

DRAWING TITLE :			
SECTION ALONG GRID A & B			
DRAWN	KEERTHIPRIYA	DESIGNED	SHARIF
CHECKED		DATE	07.10.2024
APPROVED		SCALE	N.T.S
DRG. NO.	LM-III/JETL/PC/ST-11	SHEET SIZE	REV NO.
		A3	00

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Annexure-II							
APPROXIMATE BOQ FOR LAMELLA CLARIFIER							
LAMELLA CLARIFIER-III (4.0m X 16.25m)				Date : 07-10-2024			
Sl. No.	Item Description	Unit	Qty	Quoted Rate, Rs.		Amount, Rs.	
				In Figures	In words	In Figures	In words
1.1	<b>STRUCTURAL STEEL FRAME FOR LAMELLA CLARIFIER:</b> Preparation of fabrication drawings including all joints details based on the GA drawings provided by structural consultant(structural designs as per Indian standards). Getting the fabrication drawings approved by the structural consultant. Providing steel, fabrication and erection of <b>Hot-Rolled sections</b> conforming to <b>E-250 grade of SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Built-up sections Columns, Floor beams, 6mm thk. chequered plate, railing using S.H.S(square hollow sections) at all levels as shown in GA drawings including cutting,shop welding conforming to Indian standards. All Butt welds shall have full penetration and checked by DPT. Builtup sections shall be double side welded based on design requirement. Minimum thickness of weld shall be 5mm. Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	28,000.00				-
1.2	<b>STRUCTURAL STEEL PLATE FOR LAMELLA CLARIFIER TANK :</b> Preparation of fabrication drawings including all joints details based on the GA drawings provided by structural consultant(structural designs as per Indian standards). Getting the fabrication drawings approved by the structural consultant. Supplying of steel, fabrication and erection of steel plates conforming to E-345 grade of SAIL/TATA/JINDAL or equivalent make for Lamella tank including welding, lifting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	31,000.00				-
1.3	<b>LAMELLA SHEETS-1.0mX1.5mX5mm THK.</b>	No's	310.00				-
<b>Grand Total (Rs.P)</b>							-

LAMELLA CLARIFIER-IV (4.0m X 16.25m)							
Sl. No.	Item Description	Unit	Qty	Quoted Rate, Rs.		Amount, Rs.	
				In Figures	In words	In Figures	In words
1.1	<b>STRUCTURAL STEEL FRAME FOR LAMELLA CLARIFIER AND STAIRCASE :</b> Preparation of fabrication drawings including all joints details based on the GA drawings provided by structural consultant(structural designs as per Indian standards). Getting the fabrication drawings approved by the structural consultant. Providing steel, fabrication and erection of <b>Hot-Rolled sections</b> conforming to <b>E-250 grade of SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Built-up sections Columns, Floor beams,staircase stringer beams, 6mm thk. chequered plate, railing using S.H.S(square hollow sections) at all levels as shown in GA drawings including cutting,shop welding conforming to Indian standards. All Butt welds shall have full penetration and checked by DPT. Builtup sections shall be double side welded based on design requirement. Minimum thickness of weld shall be 5mm. Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	34,500.00				-

1.2	STRUCTURAL STEEL PLATE FOR LAMELLA CLARIFIER TANK :Preparation of fabrication drawings including all joints details based on the GA drawings provided by structural consultant(structural designs as per Indian standards). Getting the fabrication drawings approved by the structural consultant. Supplying of steel, fabrication and erection of steel plates conforming to E-345 grade of SAIL/TATA/JINDAL or equivalent make for Lamella tank including welding, lifting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	31,000.00				-
1.3	LAMELLA SHEETS-1.0mX1.5mX5mm THK.	No's	310.00				-
	Grand Total (Rs.P)						-