



OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD
SCHEDULE OF REQUIREMENT

**Material :SUPPLY & INSTALLATION OF STEEL STRUCTURE PLATFORM
WITH 5-TON MANUAL GANTRY CRANE AT UCH PLANT LIMITED**

Due Date:

Tender Enquiry No: PROC/LF/PT/17749/19

Bid Bond Value : RS.180,000/-

Attachment(if any) : YES

EVALUATION WILL BE CARRIED OUT ON FULL

Sr No	Description	Quantity	Make/Brand offered	Unit	Unit Price (PKR) Inclusive Of All Taxes Except GST	Unit Price (PKR) Inclusive of GST	Total Price (PKR) Inclusive of GST	Delivery Period Offered	deviation from Tender Spec. If Any
1	SUPPLY & INSTALLATION OF STEEL STRUCTURE PLATFORM WITH 5-TON MANUAL GANTRY CRANE AT UPL FOR OGDCL AS PER ATTACHED TOR.	1		Number					

Special Note: The prospective bidders also download the master set of Tender Document

- The prospective bidders may keep in touch with OGDCL web site for downloading the clarifications/amendments (if any) issued by OGDCL.
- PAYMENT TERMS IS 100% AFTER DELIVERY,INSTALLATION & COMMISSIONING OF PLATFORM & CRANE AT UCH PLANT LIMITED DELIVERY,INSTALLATION,ERECTION,COMMISSIONING IN 04 MONTHS ON FOR UCH PLANT LIMITED,BALOCHISTAN.BID VALIDITY 120 DAYS FROM TECHNICAL BID OPENING.

Discount (if any) shall only be entertained on Schedule of Requirement of Bidding Document (Financial Proposal). If the discount is mentioned elsewhere in the bid, the same shall not be entertained.



OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD
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Mandatory Checklist

Please confirm the compliance of the following mandatory information along with the bid(s) (failing which bids(s) will not be accepted)

Documents	To be Attached with the Technical/Financial Bids	Compliance	
		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Original Bid Bond	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Copy of NTN Certificate	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Copy of GST Certificate	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Confirmation that the Firm is appearing on FBR's Active Taxpayer List	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped Annexure-A (Un-priced)	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-B	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-D	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-L on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped Annexure-M on Company's Letterhead	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly signed and stamped Annexure-N on Non-Judicial Stamp Paper duly attested by Notary Public	Technical Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-A (Priced)	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-C	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Duly filled, signed and stamped Annexure-E	Financial Bid	Yes <input type="checkbox"/>	No <input type="checkbox"/>



OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD
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For the Vendors/Contractors who opt to submit Bank Draft/Call Deposit/Pay order against Bid Bond/Performance Bond, our Accounts Department has finalized an arrangement for online payment to such Vendors/Contractors, which will be processed through (IBFT & LFT) for which following information is required:

i.	IBAN No. (International Bank Account Number 24 Digits)	
ii.	Vendor Name as per Title of their Bank Account	
iii.	Contact No. of Company's CEO/ Owner (Mobile & Landline)	
iv.	Bank Name.	
v.	Bank Branch Name and Code	

Name, Sign and Stamp of the authorized official of the Bidder(s) _____



OIL & GAS DEVELOPMENT COMPANY LIMITED
UCH GAS FIELD



20

SCOPE OF WORK

Subject: Installation of Platform and 05 Ton Manual Gantry Crane for 4rth Filter Vessel at Uch Power Limited (UPL) for OGDCL

- 1- Supply of pre-fabricated / fabricated/ vendor supplied and site installation / erection of steel structure platform as specified in drawings.
- 2- Sand blasting, primer application and finish coating as specified in BOQ along with material.
- 3- Supply and installation of 01 No. manually operated 05 Ton overhead Gantry crane as specified in BOQ.
- 4- Third party inspection (TPI) of the fabricated structure at contractor's workshop from OGDCL approved TPI companies at pre-shipment stage *and construction, at OGDCL cost.*
- 5- Transportation of all material (Civil & steel structure) to Uch Power Limited (UPL) site near Dera Murad Jamali, Balochistan.
- 6- Shifting, loading and unloading of the material, tools, equipment etc.
- 7- Proper Stacking/storing of the material near work site and providing proper cover to safeguard from weather effects.
- 8- Manual Excavation and construction of 06 No. civil foundations along with material, as specified in drawings and BOQ.
- 9- Shifting/disposal of the excavated earth material as to be advised by M/s UPL/OGDCL.

- 10- Installation/Erection of the platform structure.
- 11- Finish coating of the steel structure along with material, as specified in BOQ.
- 12- Testing and Commission of Gantry Crane.
- 13- Proper housekeeping of the worksite up to the satisfaction of M/s OGDCL / UPL.

www.Inspection-for-Industry.com

Document Name:

- Contractor Quality Control Plan for Steel Structure Construction

No.	Item description	CC	TPI	Owner
2.	Steel structure items			
2.1	Erection of structural steel			
2.1.1	Pre-installation check <ul style="list-style-type: none"> 1) Foundation and anchor bolts <ul style="list-style-type: none"> - Final dimension - Visual check 2) Welding <ul style="list-style-type: none"> - Welding procedure specs. - Welder performance qualification test - Proper fit-up, appearance and size of weld 3) Visual checks <ul style="list-style-type: none"> - Shape and size - Contact surface of joint and ensure - Sharp comers and burs are removed - Where Hi-strength bolts are required, ensure that they are being used - Base plates square with column - Bolts or fasteners - Shop erected to assure fit up (optional) 4) Identification of tagging, piece marking and match marking 	H	W	W
2.1.2	Erection of structural <ul style="list-style-type: none"> 1) Visual check <ul style="list-style-type: none"> - Straighten the anchor bolts and clean threads - Leveling plate or grout pads in place and grouted - Anchor bolts size & spacing checked against column base plate - Bolts double-nutted - Bolt tightening - Installing bracing 2) Orientation 3) Location and position 	H	W	W

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Document Name:

- Contractor Quality Control Plan for Steel Structure Construction

	4) Dimension			
	<ul style="list-style-type: none"> - Eccentricity - Base plate height and elevation - Tilt - Column & beam for plumb level, alignment and flatness - Sweep 			
2.1.3	High strength bolting <ul style="list-style-type: none"> 1) Torque control 2) Tightening high strength bolts 	H	W	W
2.1.4	Welding <ul style="list-style-type: none"> 1) Welds for size, length and stands of workmanship - Contour and appearance of the weld surface - Surface defects - Craters, undercutting overlapping edges of welds - Cracks, etc. 2) Visual check 	H	W	W
2.2	Fireproofing of structural steel			
2.2.1	<ul style="list-style-type: none"> 1) Cast-in-place concrete 2) Preparation of steel surface 3) Certificate of cement 4) Coarse aggregate 5) Slump test 6) Strength 7) Thickness 	H	W	W
2.2.2	Cement mortar <ul style="list-style-type: none"> 1) Preparation of steel surface 2) Certificate of cement 3) Sand 4) Fixing of metal lath 5) Curing 6) Thickness 	H	W	W

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Document Name:

- Contractor Quality Control Plan for Steel Structure Construction

2.2.3	Lightweight mortar 1) Preparation of steel surface 2) Fixing of metal lath 3) 3) Thickness	H	W	W
2.2.4	Preformed board 1) Preparation of steel surface 2) Installation of performed board 3) Joint of board	H	W	W
2.3	Painting of structural steel 1) Hot dip galvanized 2) Other that above 1) 3) (Refer to the section 9 painting)	H	W	W

CC: Construction Contractor

TPI: Third Party Inspection

H: Hold Point; Hold on the production till TPI Inspector performs inspection and supervise the required test

If you want to use this draft for inspection and test plan you need to fill the TPI and Owner Column based your project requirement. You may use following abbreviation for filling the columns:

W: Witness Point; Manufacture shall notify client and TPI Inspector but there is no hold on the Construction;

R: Document Review; Review means Review document, which includes of material test certificates, test reports, records and etc.

A: Approval

SW: Spot Witness; for items with spot witness contractor shall notify TPI inspector as fulfilling the monitoring;





OIL & GAS DEVELOPMENT COMPANY LIMITED
UCH GAS FIELD



GENERAL TERMS & CONDITIONS

Subject: Installation of Platform and 05 Ton Manual Gantry Crane for 4th Filter Vessel at Uch Power Limited (UPL) for OGDCL

Contractor's Responsibilities:

- 1- Permit to work and HSEQ policy compliance to OGDCL and UPL (UCH Power Limited). (Certification and QA/QC documents to be attached)
- 2- Resources and personnel certification for working inside UPL
- 3- Last and previous work history at UPL. List of jobs carried out at UPL to be attached.
- 4- Last 5 years job list in E&P / oil & gas sector (upstream) and refining (downstream) to be provided.
- 5- Turnover of over Rs. 15 million in each of the last five years to be the mandatory criteria. List of jobs for this value must be provide for last 5 years.
- 6- Submission of manufacturing plan/schedule.
- 7- Submission of QA/QC plan with inspection guidelines for the Client.
- 8- Pakistan Engineering Council (PEC) category C-3 valid certification of the contractor is mandatory and copy of the certificate to be attached.

- 9- Qualification of the contractor will be evaluated as per below criteria:

Sr. #	ITEM	Max. Marks	Marks obtained
1	Scope compliance	30	
2	PEC C3 certificate valid copy	10	
3	UPL job history (one job 2 marks)	15	
4	Company job history with E&P company (one job 2 marks)	15	
5	Job Schedule	15	
6	Financial Health (turnover of 15 million per year): Three years verified Beneficiary Company's Bank Account	15	

- 10- Hot job (welding/cutting/grinding) will not be allowed at UPL site for installation of platform.
- 11- All the structure will be pre-fabricated at contractor's workshop and will be erected at site through nut bolts.
- 12- OGDCL engineer will inspect all the pre-fabricated structure at the contractor's workshop before supply at UPL site.
- 13- Sand blasting and primer application of the structure will be carried at contractor's workshop as per BOQ specifications.
- 14- Contractor has to arrange all the necessary tools, machinery, scaffolding and whatever material required for the completion/execution of job.
- 15- Contractor will safeguard the isolated area of vertical vessel up to full height so that to avoid falling of the platform structure on nearby high pressure live lines during erection job.
- 16- All lifting equipment/machinery along with operators to be used during erection at UPL site should have valid third party LEEA certification. i.e. Crane, Shackles, Lifting Belts, Chain blocks, Safety harnesses etc.
- 17- For 05 tons overhead gantry Crane, 1) Make 2) Model and 3) Country of origin to be approved from OGDCL and Crane must be certified. Details as above must be provided with the bid.

- 18- For manual gantry Crane to be installed, Lifting Equipment Engineers Association (LEEAA) certification must be provided.
- 19- All kind of transportation including shifting of material, tools, equipment, working crew "to" and "from" the worksite, pick & drop of crew etc will be the responsibility of the contractor.
- 20- Site In-charge to be deployed by the contractor to supervise the whole job.
- 21- One HSE supervisor will also be deputed at site by the contractor.
- 22- Tools to be used for nut bolts tightening must be non-sparking i.e. Brass hammers for Steel striking spanners OR torque wrench should be used.
- 23- Contractor has to submit detailed "Method Statement/Job execution plan" for the whole job before mobilization to UPL site.
- 24- Contractor has to fulfill all the documentation, HSE requirements of M/s UPL and will strictly comply with HSE policy of M/s UPL. Further, contractor will arrange proper PPEs for all the crew working at site.
- 25- Contractor will submit list of the working personnel with Names, designation and their CNICs and also list of tools & equipment before mobilization as required for Gate Entry at M/s UPL.
- 26- One day prior intimation through M/s OGDCL will be required for M/s UPL gate entry with complete detail of material and manpower. Gate entry will be only allowed during daylight.
- 27- Boarding/lodging facility can be provided up to only ten (10) workers of the contractor at UPL and will be charged from the contractor as Rs. 2000/- per person per day for workers and Rs. 3200/- per person per day for senior staff. Boarding/lodging of extra manpower will be managed by contractor outside the UPL.
- 28- No cooking arrangement nor outsourced meal/catering services are allowed in UPL premises.

- 29- In case of any human injury/accident of the contractor's crew member(s) during the job, only general first aid will be provided to the affectee(s), whereas any other medical treatment would be the responsibility of the contractor. Further, OGDCL and UPL will not be liable for any claim/compensation etc.
- 30- Contractor should thoroughly review and understand the drawings, BOQ, TORs and SOW, and if finds any discrepancy/ambiguity then should communicate timely for clarification/correction before commencement of Job. OGDCL will not be responsible for any loss in terms of any re-work to be required by the contractor or due to job delay resulted in such case. All such rectification/re-work will be on the contractor's part.
- 31- The quote must include all federal / provincial taxes, levies, surcharges and applicable custom dues. OGDCL would not be liable for any custom clearance or payment of such dues in any manner whatsoever on these accounts.
- 32- Contractor will claim only actual quantity in the invoice for payment against the provided BOQ.

OGDCL Responsibilities:

1. OGDCL will facilitate material /manpower entry & exist at M/s UPL gate.
2. Water source for civil works will be provided to the contractor within UPL boundary. However, transportation arrangement from source to work site is in the contractor's scope.

SCOPE COMPLIANCE as part of evaluation (30 Marks)

#	Item (max. marks) for the BID	Bidder compliance
1	Manually operated 05 tons overhead crane with 3.6 meters span travel. Manufacturer LEEA certified documentation to be provided. (05)	
2	A-36 material supply for all structural plates and shapes to be confirmed. (05)	
3	Machinery for project execution to be listed in Rs. 100/- Judicial Stamp paper issued in the name of beneficiary. (05)	
4	Commissioning under Site Acceptance Test (SAT) would be actual filter change activity / replacement. Bidder to accept this under OGDCL Annual Turn Around (ATA) time line. (03)	
5	Shop fabrication drawings to be provided before site works start for OGDCL approval in duplicate A0 hard copies and one digital AutoCAD soft copy. (02)	
6	Company's HSEQ Engineer for site monitoring, CV to be attached. (02)	
7	Site Civil Engineer (PEC level PE) CV to be provided for OGDCL approval in the bid. (04)	
8	OGDCL QA/QC & Third Party Inspection (TPI) package compliance. (02)	
9	Detailed work schedule Bar Chart to be submitted for daily activities, as project to be completed within 04 months after contract award. (02)	

The above table with 30 marks is part of para 09 Table under "General terms & Condition" making a total of 100 marks, minimum qualification marks is 70 out of 100. PEC C3 and turnover of RS 15 million per year as two mandatory requirements.

Mandatory Requirement

S. No.	DESCRIPTION	YES	NO
1	Has your firm been in litigation /blacklisted by OGDCL or any other firm? If yes, please provide details.		
2	NTN Certificate (Please attach NTN Certificate copy)		
3	GST Certificate (Please attach GST Certificate copy)		
4	Pakistan Engineering Council registration in relevant category (C3 or Above) (Please attach PEC registration certificate copy)		
5	Authorized contractor with Rs. 15 million annual turnover for the last 3 years. Project purchase orders to be shared.		

1.0 STATUS OF FIRM & GENERAL REQUIREMENTS


Sr.	DESCRIPTION	DETAILS
1.1	Type of Firm <ul style="list-style-type: none"> > Private Ltd > Partnership > Proprietorship 	
1.2	Average Annual Turnover in last three (3) years <ul style="list-style-type: none"> > More than 50 Million > Between 40 to 50 Million > Between 25 to 40 Million > Between 10 to 25 Million > Less than 10 Million (Please provide audited financial reports of last three years)	
1.3	Maximum Amount of Work Order Awarded <ul style="list-style-type: none"> > More than 50 Million > Between 40 to 50 Million > Between 25 to 40 Million > Between 10 to 25 Million > Less than 10 Million (Please provide evidence)	

2. PAST EXPERIENCE

Sr.	DESCRIPTION	DETAILS
2.1	<p>Work Experience in Upstream E& P oil / gas industry (PEPCA or IOGP full members companies ONLY) with SATISFACTION CERTIFICATES (with name, contact person email, phone and postal address)</p> <ul style="list-style-type: none"> > Over 5 Years > Between 3 to 5 Years > Between 1 to 3 Years > Less than 1 year <p>(Please provide evidence)</p>	
2.2	<p>Work Done of Similar nature in last 5 years for orders above Rs.50 million successfully completed</p> <ul style="list-style-type: none"> > More than 5 Projects > 4-5 works. > 2 -4 works. > Less than 2 <p>(Please provide work orders)</p>	
2.3	<p>Relevant Experience</p> <ul style="list-style-type: none"> > Supply & Installation > Supply only 	

3. HUMAN RESOURCE

Sr.	DESCRIPTION	DETAILS
3.1	Engineer with PE PEC status <input type="checkbox"/> More than 5 <input type="checkbox"/> 4-5 <input type="checkbox"/> 2-3 <input type="checkbox"/> 1 <i>(Please provide evidence)</i>	
3.2	Engineer Experience (Average) <input type="checkbox"/> More than 10 years <input type="checkbox"/> 5-9 <input type="checkbox"/> 3-4 <input type="checkbox"/> Less than 3 <i>(Please provide evidence)</i>	
3.3	Number of Technicians <input type="checkbox"/> More than 10 <input type="checkbox"/> 5-9 <input type="checkbox"/> 3-4 <input type="checkbox"/> Under 3 <i>(Please provide list of Technicians on company letter head)</i>	
3.4	Technician's Installation Experience (Average) <input type="checkbox"/> More than 15 years <input type="checkbox"/> 10-14 <input type="checkbox"/> 4-9 <input type="checkbox"/> Less than 4 <i>(Please provide evidence)</i>	


Hammad Ahmed
JE (Mech) PE & FD

4. HSE COMPLIANCE

Sr.	DESCRIPTION	DETAILS
4.1	Compliance to HSE Booklets (Electrical and Construction, PPEs) <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Please provide a signed and stamped copy of the mentioned HSE Booklets)</i>	
4.2	HSE Policy & Procedures Copies of following provided (Y/N) <input type="checkbox"/> Singed HSE Policy (by CEO of the Contractor) <input type="checkbox"/> Working at Height <input type="checkbox"/> Dismantling <input type="checkbox"/> Lifting Operations <input type="checkbox"/> Confined Space Entry (Ducts Entry) <input type="checkbox"/> Power Actuated Equipment Safety <input type="checkbox"/> Welding, Cutting & Brazing <input type="checkbox"/> PPE Procedure <input type="checkbox"/> Electrical Lock out/Tag out system <input type="checkbox"/> Welfare for employees (Health, Drug abuse policy, Facilitation, Insurance etc) <input type="checkbox"/> Emergency Preparedness <input type="checkbox"/> Incident Reporting <input type="checkbox"/> Job Hazard Analysis <i>(Important: Please provide relevant documents/Guidelines/Work Instructions in Urdu or English)</i>	
4.3	Does Company provide HSE Trainings on following: Job Specific Trainings: <input type="checkbox"/> Manual handling <input type="checkbox"/> Lifting Operations <input type="checkbox"/> Working at height <input type="checkbox"/> Permit to work <input type="checkbox"/> Welding, Cutting, Brazing <input type="checkbox"/> Fork Lift Operations/ Hoist Crane Operations <input type="checkbox"/> Power Tools <input type="checkbox"/> Any Other (Please Specify)	
	Electrical Safety Training Emergency Preparedness <input type="checkbox"/> Fire Extinguisher training <input type="checkbox"/> First Aid <i>(Important: Please provide documentary evidence i.e. Attendance sheet, course contents, external certificates, photographs, etc)</i>	



OIL & GAS DEVELOPMENT COMPANY LTD.

PLATFORM WITH 5TON GANTRY CRANE AT UCH POWER PLANT

BILL OF QUANTITIES

REV.	DATE	DESCRIPTION OF ISSUE	ORIG.	CHK.	APPR.
1	21-MAY-2019	REVISED AS PER OGDCL COMMENTS	AZ	SFA	MAJ
0	27-NOV-2018	ISSUED FOR REVIEW	AZ	SFA	MAJ

OES

OPTIMUM ENGINEERING SERVICES

Z-481, 1ST FLOOR, BLOCK 3, BAHADURABAD, KARACHI, PAKISTAN.
Tel. (92-21) 34218282, 34931177, Fax: (92-21) 34931177 , Email: contact@optimumengs.com

Job No.	Document No.	Revision	Total Pages (inc front cover)
253-1	253-1-CIV-BOQ-001	1	3

OIL & GAS DEVELOPMENT CO. LTD.
PLATFORM WITH 5TON GANTRY CRANE - UCH POWER PLANT
BILL OF QUANTITIES

S.NO.	DESCRIPTION	NEW QTY	UNIT		REMARKS
1.0	<p><u>5 TON GANTRY CRANE SUPPORTING STRUCTURE & PLATFORM</u></p> <p>SUPPLY OF ALL MATERIALS AND CONSTRUCTION OF PLATFORM STRUCTURE AS PER SPECIFICATIONS, DRAWINGS AND TO THE ENTIRE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE WORK INCLUDES:</p>				
i)	<p>EXCAVATION: EXCAVATION FOR FOUNDATIONS TO THE REQUIRED DEPTH AS SHOWN ON DRAWINGS IN ALL KINDS OF SOIL DRY OR WET, HARD, AVERAGE OR SOFT INCLUDING DEWATERING AND SHORING IF REQUIRED AND ALL OPERATIONS OF BACKFILLING INCLUDING FILLING OF EXCAVATED SOIL (IF EXCAVATED SOIL FOUND SUITABLE FOR BACKFILLING, AS RECOMMENDED BY GEO-TECHNICAL INVESTIGATION REPORT) IN 150mm THICK LAYERS WHEREVER REQUIRED WITHIN THE SPECIFIED DEPTH AND DISPOSAL OF EXCESS MATERIAL AT DESIGNATED PLACES. BACKFILL SHALL INCLUDE BREAKING CLODS, LEVELING, DRESSING, WATERING, CONSOLIDATION AND COMPACTION TO ATTAIN 95% DRY DENSITY AS PER ASTM D 1557. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER. (THIS ACTIVITY SHALL BE CARRIED OUT ON THE SAME / NEAR BY LOCATIONS)</p>	30	CU.M		
ii)	<p>C.C. 1:4:8 (SRC) PROVIDING AND LAYING CEMENT CONCRETE 1:4:8 IN FOUNDATION, FOR BLINDING OR UNDER FLOORS WHEREVER REQUIRED WITH APPROVED QUALITY 25mm AND DOWN SIZE STONE OR GRADED GRAVEL AND APPROVED QUALITY OF LOCAL RIVER SAND INCLUDING ALL FORMWORK RODING VIBRATING, LEVELING, COMPACTING, SPREADING AND CURING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	2	CU.M		
iii)	<p>R.C.C. 3000 psi (SRC) PROVIDING AND LAYING RCC OF SPECIFIED DESIGN MIX / STRENGTH AS MENTIONED IN THE DRAWING & RELATED B.O.Q USING APPROVED QUALITY 20mm MAXIMUM CRUSHED GRADED STONES AND FINE AGGREGATE OF APPROVED QUALITY INCLUDING APPROVED FORMWORK AND ITS REMOVAL, ALL OPERATIONS OF VIBRATING, LEVELING, COMPACTING, SPREADING, CURING AND TESTING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	11	CU.M		
iv)	<p>STRUCTURAL STEEL (A-36) SUPPLYING AND FIXING JOISTS, CHANNEL, ANGLE, TEE SECTIONS, GUARD BARS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLD FASTS, PIPE SUPPORTS PLATES ROOF TRUSSES, BEAMS, PURLINS ETC., ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS, NUTS, RIVETS, WASHERS ETC., AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES WITH SURFACE PREPARATION BY SAND BLASTING TO SA 2.5, SUPPLY & APPLICATION OF 2 COATS EPOXY PRIMER & 2 COATS OF EPOXY FINISHAS PER MANUFACTURER'S RECOMMENDATIONS (COLOUR SCHEME TO BE PROVIDED BY OWNER'S REPRESENTATIVE). COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	8	TONS		<p>RATES FOR STRUCTURAL STEEL SHALL BE INCLUSIVE OF SURFACE PREPARATION BY SAND BLASTING TO SA 2.5, SUPPLY & APPLICATION OF PAINT. APPROVED BRANDS ARE ICI, BERGER, NIPPON, JOTUN, KANSAI, CARBOLINE OR AN EQUIVALENT APPROVED BY THE OWNER</p>
v)	<p>ANCHOR BOLTS (A-307) SUPPLYING AND FIXING ANCHOR BOLTS WITH HEXAGON, SQUARE, CUP OR CHEESE HEADS, SCREWED ONE OR BOTH END, OR ONE END ENLARGED OR JAGGED OR LEWISED, EACH WITH ONE WASHER AND TWO HEXAGON OR SQUARE NUT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	30	KG		

OIL & GAS DEVELOPMENT CO. LTD.
PLATFORM WITH 5TON GANTRY CRANE - UCH POWER PLANT
BILL OF QUANTITIES

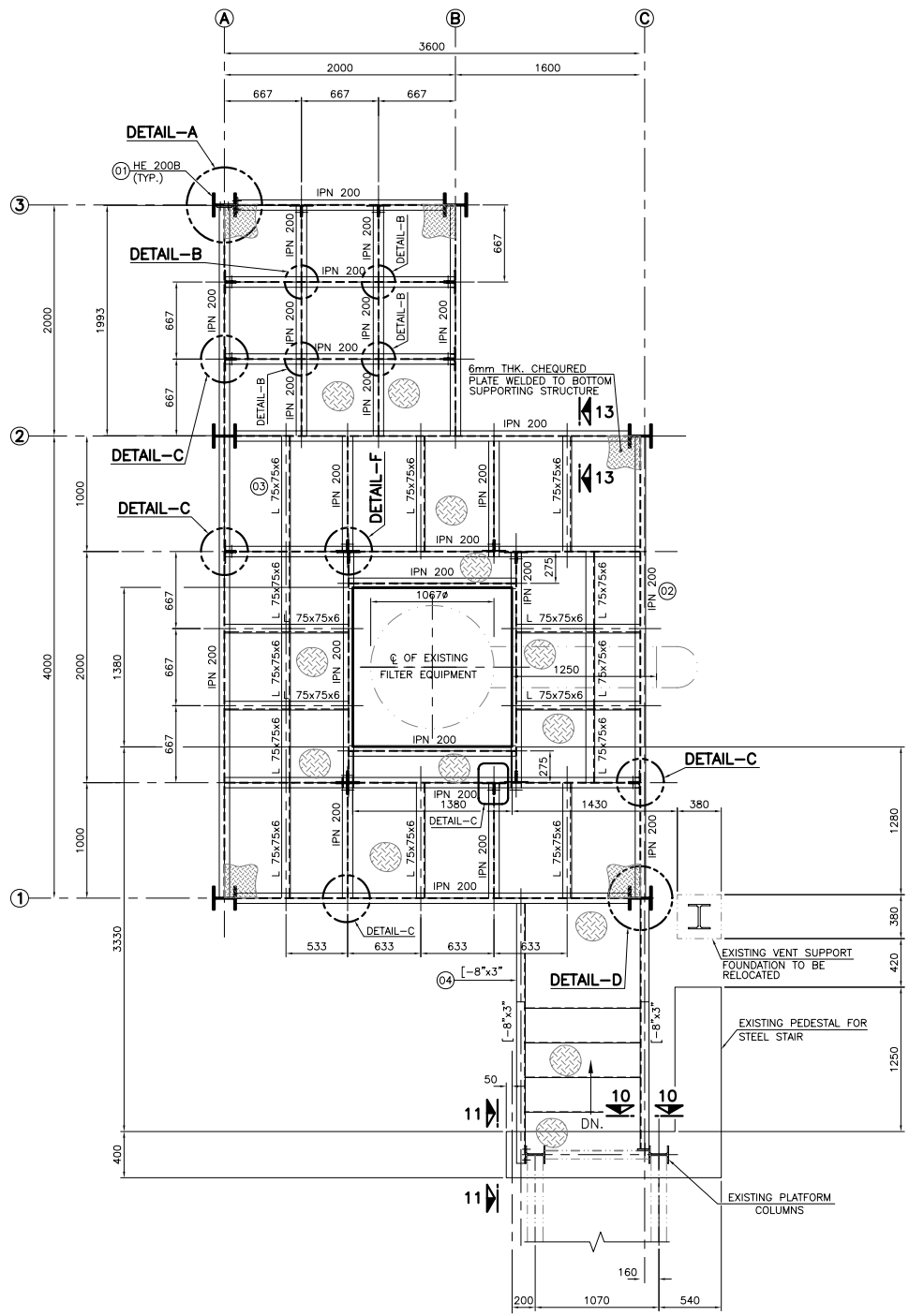
S.NO.	DESCRIPTION	NEW QTY	UNIT		REMARKS
vi)	<p>BITUMEN COATING</p> <p>PROVIDING AND APPLYING 03 COATS OF BITUMEN GRADE 10 / 20 TO ACHIEVE 1200 MICRONS THICKNESS WITH 01 COAT OF PRIMER ON CONCRETE SURFACES EXPOSED TO EARTH. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	45	SQ.M		COMPLETE TECHNICAL DETAILS OF THE CRANE SHALL BE SUBMITTED WITH THE BID.
vii)	<p>STEEL REINFORCEMENT (60,000 PSI)</p> <p>PROVIDING AND LAYING DEFORMED STEEL REINFORCEMENT INCLUDING THE COST OF STRAIGHTENING, CUTTING, BENDING, BINDING, WASTAGE AND SUCH OVERLAPS AS ARE NOT SHOWN OVER THE DRAWINGS, PLACING IN POSITION ON M.S, CHAIRS, TYING WITH BINDING WIRES, ETC., IN ALL KINDS OF RCC WORK INCLUDING THE COST OF 18 GAUGE BINDING WIRES, CHAIRS, SPACERS ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.</p>	2	TONS		
2.0	<p>5 TON CAPACITY GANTRY CRANE</p> <p>SUPPLY, ERECTION, INSTALLATION, TESTING & COMMISSIONING OF 5 TONNES CAPACITY, OVERHEAD TRAVELLING CRANE.</p> <p>CRANE SHALL BE MECHANICAL TYPE, SINGLE GIRDER, TOP SLIDING, APPROX. 3.6 M SPAN, SUITABLE FOR INSTALLATION ON STEEL STRUCTURE PLATFORM AS SHOWN ON DWG. NO. 253-1-STR-DTL-001.</p>	1	UNIT		
				TOTAL (Rs.)	

(RUPEES _____ ONLY)

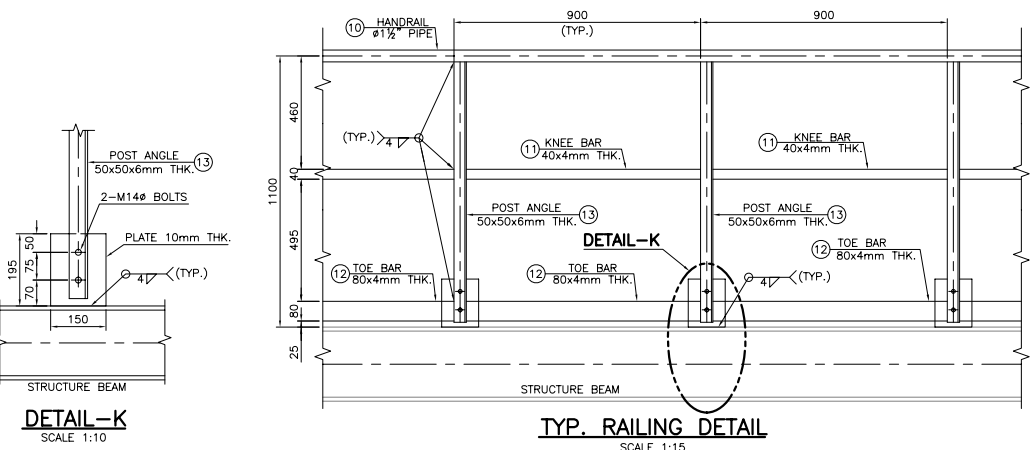
COMPANY SEAL

BIDDER'S SIGNATURE

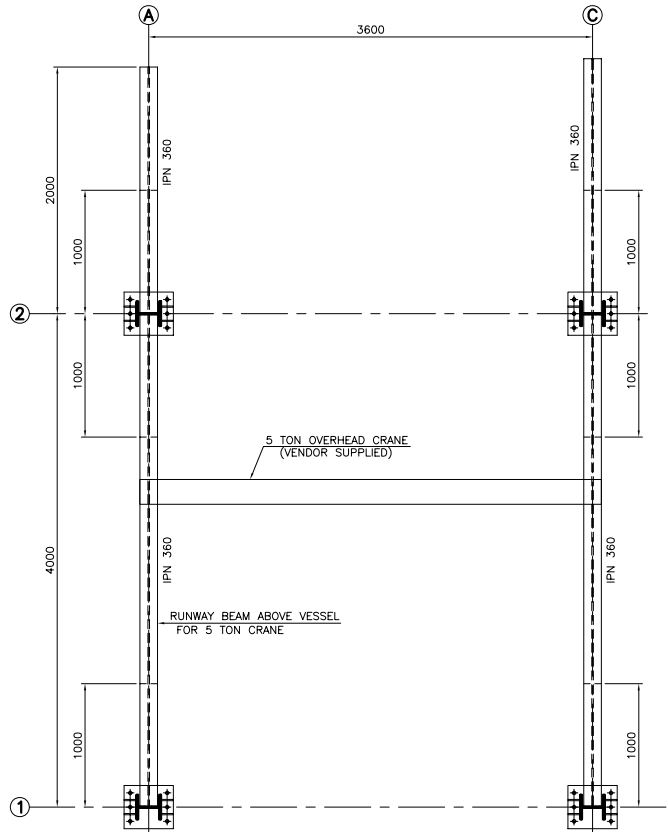
REFERENCE DRAWINGS	
DESCRIPTION	DWG. NO.
CONNECTIONS AND OTHER DETAILS	253-1-STR-DTL-001 (SHEET-2)
FOUNDATION PLAN AND DETAILS	253-1-CIV-DTL-001
BASE PLATE LAYOUT AND DETAILS	253-1-STR-DTL-002



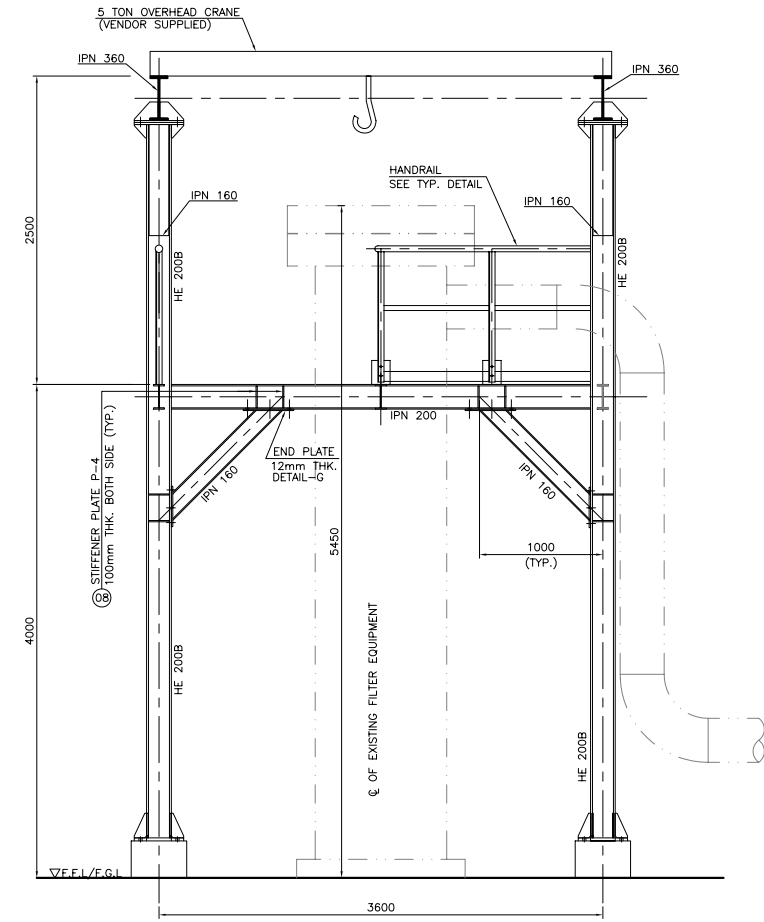
PLAN AT LEVEL +4.000m (SEE NOTE-14)
SCALE 1:30



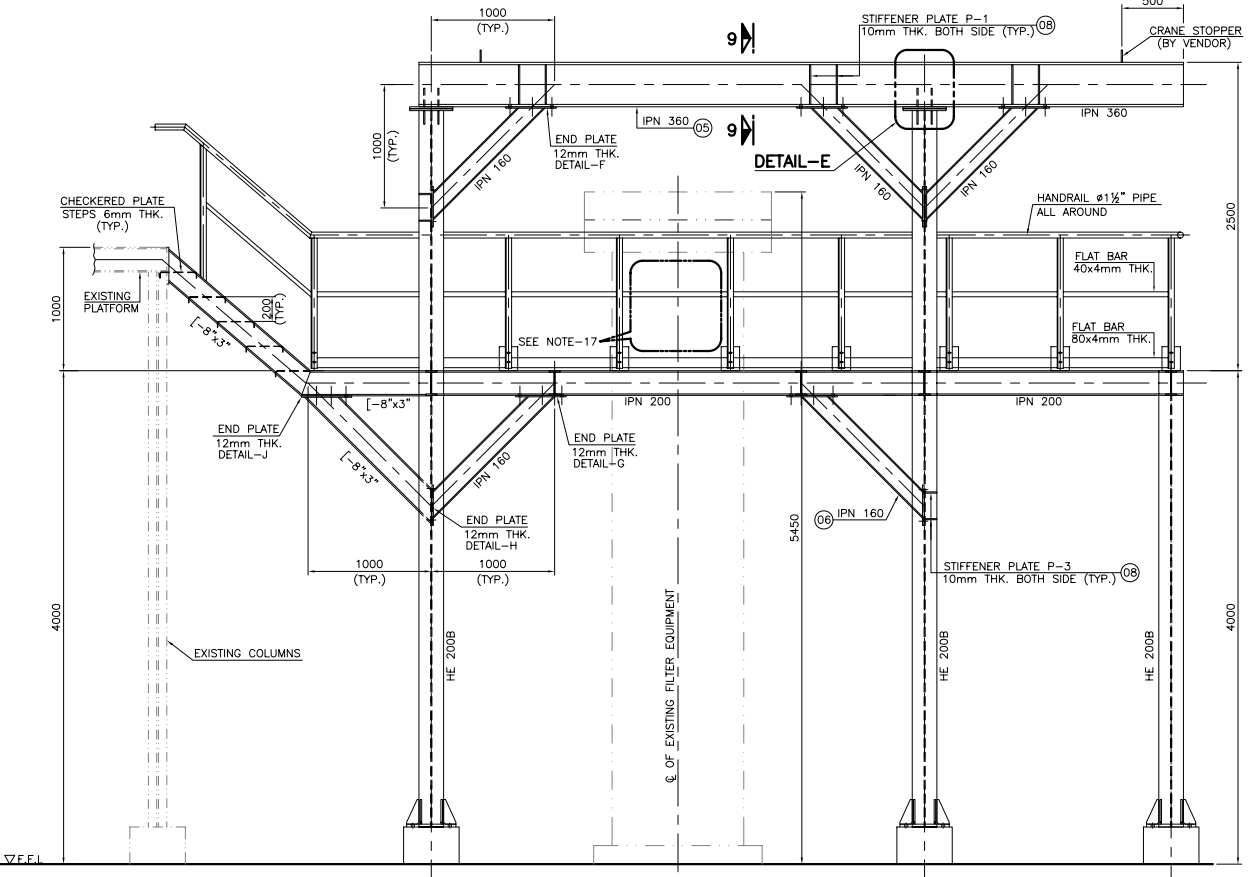
TYP. RAILING DETAIL
SCALE 1:15



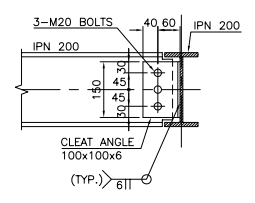
PLAN AT LEVEL +6.500m
SCALE 1:30



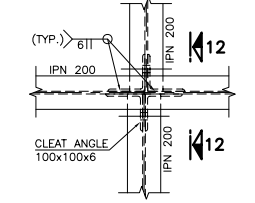
ELEVATION ON GRID-2
SCALE 1:30



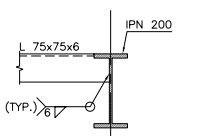
ELEVATION ON GRID-C
SCALE 1:30



SECTION 12-12
SCALE 1:10



DETAIL-F
SCALE 1:10



SECTION 13-13
SCALE 1:10

- NOTES:**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.
 - ALL LEVELS ARE IN METERS.
 - ALL SHARP EDGES TO BE REMOVED.
 - CONTRACTOR SHALL PREPARE SHOP FABRICATION DRAWINGS FOR APPROVAL BEFORE ANY FABRICATION WORK.
 - WELD SIZE TO BE PROVIDED AS MAXIMUM CAPACITY OF THE MEMBER AND CLEARLY SHOW SHOP & FIELD WELD ON SHOP DRAWING.
 - ALL STRUCTURAL STEEL SHAPES AND PLATES TO BE ASTM A-36 CARBON STEEL OR EQUAL UNLESS OTHERWISE SPECIFIED.
 - ALL LOAD BEARING MEMBERS SHALL BE JOINED BY FULL PENETRATION WELDS.
 - RED OXIDE PAINT TO BE APPLIED AFTER FABRICATION.
 - FABRICATOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 - WELDING SHALL BE PERFORMED ACCORDINGLY TO STRUCTURAL WELDING CODES, AWS D1-1.83 OF AWS.
 - ALL WELDING TO BE ELECTRIC ARC WELDING.
 - IN JOINTS BETWEEN PLATES OF DIFFERENT THICKNESS, THE THICKER PLATES MUST BE TAPERED 1:8 TO MEET THE THICKNESS OF THINNER PLATES.
 - ACCUMULATION OF WELD SHALL BE AVOIDED.
 - CONTRACTOR TO VERIFY PROPOSED FOUNDATION LAYOUT & STRUCTURAL DIMENSIONS AS PER EXISTING GROUND CONDITIONS PRIOR TO START OF CONSTRUCTION WORKS, AND ASK CLIENT / CONSULTANT IN CASE OF ANY CONFLICT.
 - ALL STRUCTURAL STEEL MEMBER TO BE HOT ROLLED SECTIONS.
 - WELDED CONNECTIONS ARE 6mm FILLET WELD ALL AROUND.
 - PIPE TO BE CLEARED FROM HANDRAILING.
 - ALL CONNECTION BOLTS TO BE ASTM-A325 GRADE.

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPR.
2	31-12-2018	REVISED AS PER OGDCL COMMENTS	MF	SFA	MAJ
1	17-11-2018	RE-ISSUED FOR APPROVAL	MF	SFA	MAJ
0	12-10-2018	ISSUED FOR APPROVAL	MF	SFA	MAJ

COMPUTER REFERENCE DRAWING NUMBER : 253-1-STR-DTL-001-1-R2

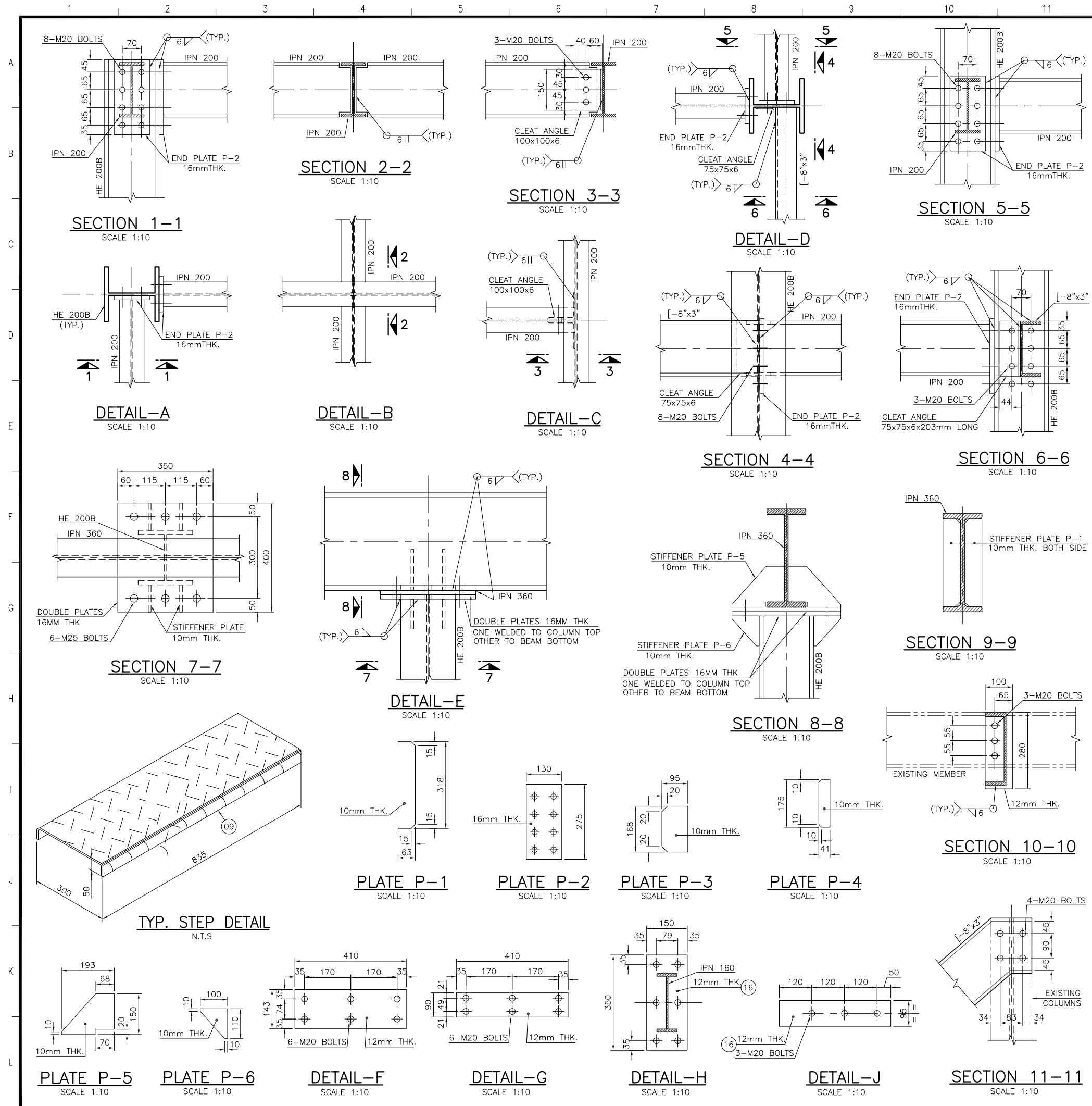
OES OPTIMUM ENGINEERING SERVICES
7-411, 1ST FLOOR, BLOCK 3, BAHADURABAD, KARACHI, PAKISTAN
Tel: (021) 3471032, 34031177, Fax: (021) 34031177, WebSite: www.optimumeng.com

CLIENT: OIL & GAS DEVELOPMENT CO. LTD.

PROJECT: PLAT FORM WITH 5MT. GANTRY CRANE AT UCH POWER LTD.

TITLE: PLAN AT LEVEL +4.000m & LEVEL +6.500m AND ELEVATIONS

DRAWING NO.	253-1-STR-DTL-001	REV.	2
JOB NO.	253-1	SCALE:	1:30
		SIZE:	A1
		SHEET:	1 OF 2



REFERENCE DRAWINGS

DESCRIPTION	DWG. NO.
PLAN AT LEVEL +4.000m & 6.500m AND ELEVATIONS	253-1-STR-DTL-001 (SHEET-1)

ITEM	DESCRIPTION	QTY.	MATERIAL	WT./UNIT	TOTAL(KG)
19	M25Ø BOLTS 75mm LONG	24 NOS.	A-307	-	-
18	M20Ø BOLTS 50mm LONG	400 NOS.	A-307	-	-
17	M14Ø BOLTS, 40mm LONG	52 NOS.	A-307	-	-
16	PLATE 12mm THK.	5.5 m ²	ASTM A-36	94.2 Kg/m ²	518
15	L 100x100x6	8 R.M	ASTM A-36	9.2 Kg/m	74
14	PLATFORM CHECKERED PLATE 6mm THK.	20m ²	ASTM A-36	49.74 Kg/m ²	995
13	POST ANGLE 50 x 50 x 6mm THK.	30 R.M	ASTM A-36	4.47 Kg/m	134
12	FLAT BAR 80 x 4mm THK.	22 R.M	ASTM A-36	2.512 Kg/m	55
11	FLAT BAR 40 x 4mm THK.	25 R.M	ASTM A-36	1.256 Kg/m	31
10	HANDRAIL PIPE Ø1½"	25 R.M	API-5L Gr.B	4.05 Kg/m	101
09	CHECKERED PLATE STEPS 835x400x6 THK.	5	ASTM A-36	15.7 Kg/Pc.	79
08	PLATE 10mm THK.	3.5m ²	ASTM A-36	78.5 Kg/m ²	275
07	PLATE 16mm THK.	2m ²	ASTM A-36	125.6 Kg/m	251
06	IPN 160	16 R.M	ASTM A-36	17.9 Kg/m	286
05	IPN 360	12 R.M	ASTM A-36	76.1 Kg/m	913
04	CHANNEL [-8" x 3"	9 R.M	ASTM A-36	23.85 Kg/m	215
03	L 75x75x6	16 R.M	ASTM A-36	6.85 Kg/Pc.	110
02	IPN 200	49 R.M	ASTM A-36	26.2 Kg/m	1284
01	HE 200B	31 R.M	ASTM A-36	61.3 Kg/m	1900
				TOTAL WT.KG.	7221

NOTES:-

- ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.
- ALL LEVELS ARE IN METERS.
- FOR OTHER NOTES REFER SHEET-1.

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPR.
2	11-05-2019	REVISED WHERE INDICATED	MF	SFA	MAJ
1	31-12-2018	REVISED AS PER OGDCL COMMENTS	MF	SFA	MAJ
0	17-11-2018	ISSUED FOR APPROVAL	MF	SFA	MAJ

COMPUTER REFERENCE DRAWING NUMBER : 253-1-STR-DTL-001-2-R2

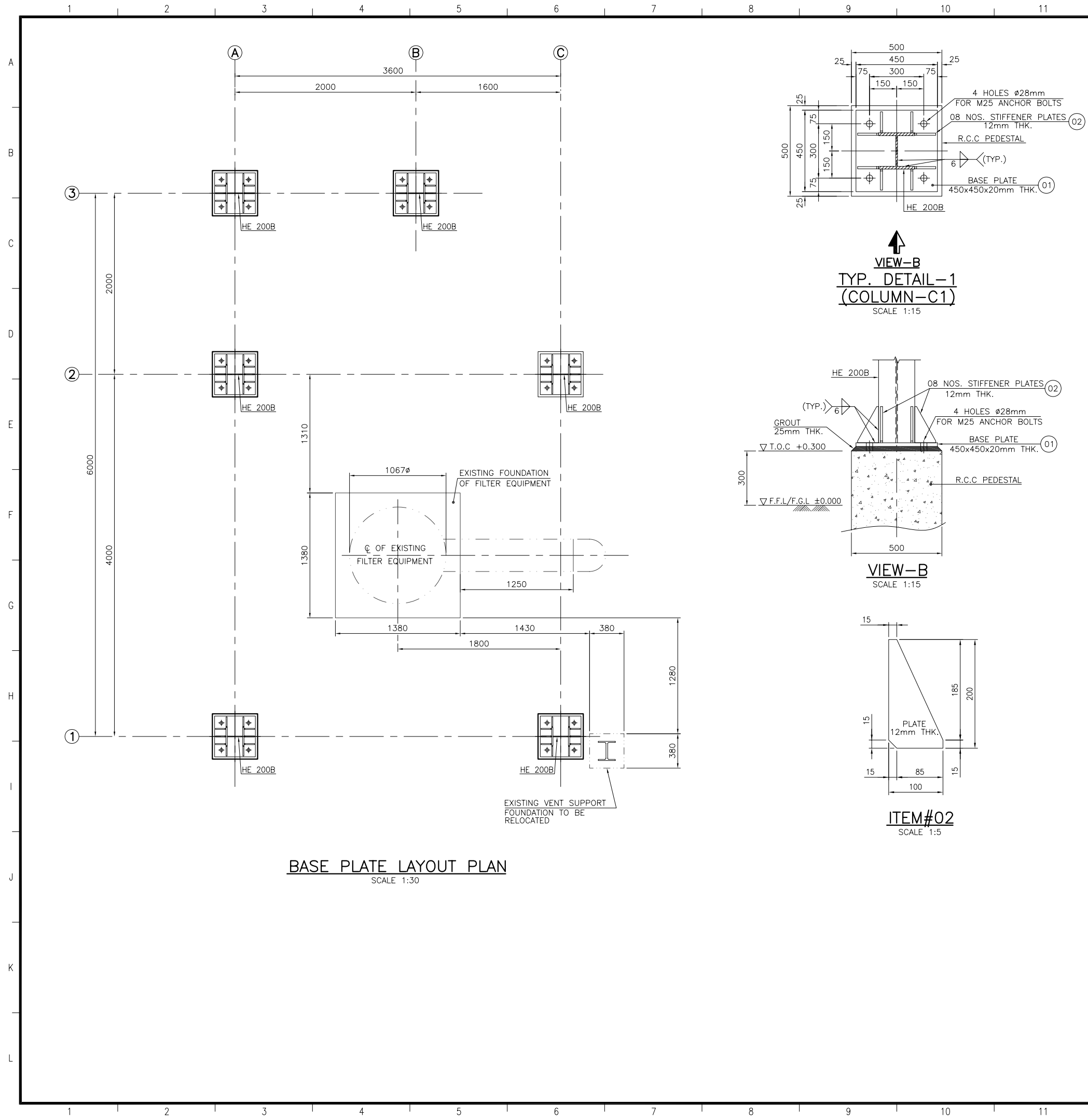
OES OPTIMUM ENGINEERING SERVICES
 Z-481, 1ST FLOOR, BLOCK 3, BAHADURABAD, KARACHI, PAKISTAN
 Tel. (92-21) 34218282, 34931177, FAX : (92-21) 34931177, WEBSITE: www.optimumengs.com

CLIENT: **OIL & GAS DEVELOPMENT CO. LTD.**

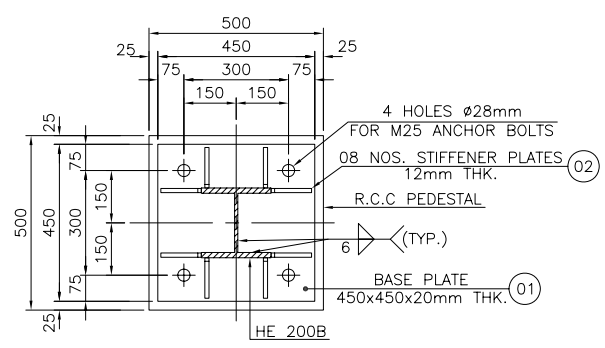
PROJECT: **PLATFORM WITH 5MT. GANTRY CRANE AT UCH POWER LTD.**

TITLE: **CONNECTIONS AND OTHER DETAILS**

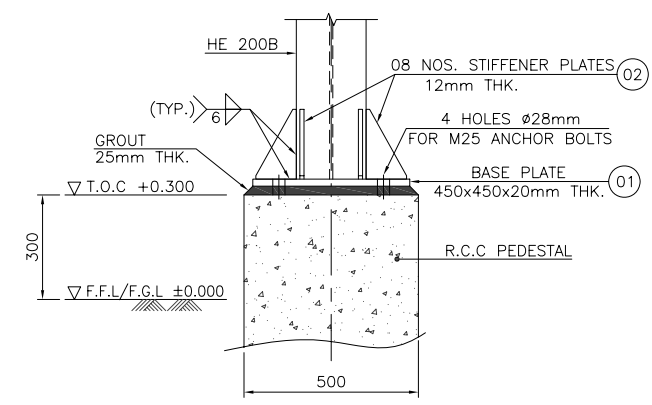
DRAWING NO. 253-1-STR-DTL-001 REV. 2
 JOB NO. 253-1 SCALE : AS SHOWN SIZE : A2 SHEET : 2 OF 2



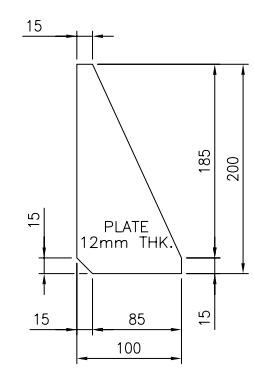
BASE PLATE LAYOUT PLAN
SCALE 1:30



VIEW-B
TYP. DETAIL-1
(COLUMN-C1)
SCALE 1:15



VIEW-B
SCALE 1:15



ITEM#02
SCALE 1:5

REFERENCE DRAWINGS

DESCRIPTION	DWG. NO.
PLAN AT LEVEL +4.000m & 6.500m AND ELEVATIONS	253-1-STR-DTL-001 (SHEET-1 & 2)
FOUNDATION PLAN AND DETAILS	253-1-CIV-DTL-001

ITEM	DESCRIPTION	QTY.	MATERIAL	WT./UNIT	TOTAL(KG)
02	STIFFENER PLATE x 12mm THK.	48 NOS.	ASTM A-36	94.2 Kg/m ²	54
01	BASE PLATE 450 x 450 x 20mm THK.	06 NOS.	ASTM A-36	157 Kg/m ²	191
				TOTAL WT.KG.	245

LEGENDS:

F.F.L. = FINISHED FLOOR LEVEL
T.O.C. = TOP OF CONCRETE

NOTES:

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- ACCUMULATION OF WELD SHALL BE AVOIDED.

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPR.
2	11-05-2019	REVISED WHERE INDICATED	MF	SFA	MAJ
1	31-12-2018	REVISED AS PER OGDCL COMMENTS	MF	SFA	MAJ
0	17-11-2018	ISSUED FOR REVIEW / APPROVAL	MF	SFA	MAJ

COMPUTER REFERENCE DRAWING NUMBER : 253-1-STR-DTL-002-R2

OES OPTIMUM ENGINEERING SERVICES
 Z-481, 1st FLOOR, BLOCK 3, BAHADURABAD, KARACHI, PAKISTAN
 Tel: (92-21) 34218282, 34931177, FAX: (92-21) 34931177, WEBSITE: www.optimumengs.com

CLIENT: **OIL & GAS DEVELOPMENT CO. LTD.**

PROJECT: **PLATFORM WITH 5MT. GANTRY CRANE AT UCH POWER LTD.**

TITLE: **BASE PLATE LAYOUT AND DETAILS**

DRAWING NO.	253-1-STR-DTL-002	REV.	2
JOB NO.	253-1	SCALE :	1:30
		SIZE :	A2
		SHEET :	1 OF 1