



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 02

Ref: PSER:SCT:MRK-M1280:TCN-02

Date: 20/12/2011

Sub	Tender change notice (TCN) 02	
Job	Providing complete logistics of various transportations etc and transportation of Over Dimensional Consignments from various BHEL Manufacturing Units to Monarchak site by roadways & Water ways through area of Karimganj Port/Badapur Ghat for 100 MW TGBPP , NEEPCO , Monarchak, Sonamura , Tripura	
Ref	1.0	Tender no PSER:SCT:MRK-M1280:11
	2.0	BHEL's NIT, vide ref no Ref: PSER:SCT:MRK-M1280:11 Dated 06/12/2011
	3.0	BHEL's TCN-01 Vide ref. no. PSER:SCT:MRK-M1280:TCN-01 Dated 09/12/2011.
	4.0	Other references (if any).

With reference to above, following points , relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Clarification to Bidder's Query vide Annexure-A to TCN-02.
- 2.0 Annexure -I, IA, IB & II has been revised . Please find attached Annexure-I (Rev-01), IA(Rev-01) , IB (Rev-01) , II(Rev-01)
- 3.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached Format only.
- 4.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

1. Revised 'No deviation certificate' format.
2. Annexure-A to TCN-02
3. Annexure-I (Rev-01), IA(Rev-01) ,IB (Rev-01) , II(Rev-01)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Providing complete logistics of various transportations etc and transportation of Over Dimensional Consignments from various BHEL Manufacturing Units to Monarchak site by roadways & Water ways through area of Karimganj Port/ Badapur Ghat for 100 MW TGBPP , NEEPCO , Monarchak, Sonamura , Tripura	
Ref	1.0	Tender no PSER:SCT:MRK-M1280:11
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:MRK-M1280:11 Dated 06/12/2011.
	3.0	BHEL's TCN-01 , vide reference no Ref: PSER:SCT:MRK-M1280:11:TCN-01 Dated 09/12/2011.
	4.0	BHEL's TCN-02 , vide reference no Ref: PSER:SCT:MRK-M1280:11:TCN-02 Dated 20/12/2011.
	5.0	Other references (if any).

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, Integrity Pact (If applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

<p>पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax: (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691</p>
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ANNEXURE-A TO TCN-02

CLARIFICATION TO BIDDER'S QUERY

Providing complete logistics of various transportations etc and transportation of Over Dimensional Consignments from various BHEL Manufacturing Units to Monarchak site by roadways & Water ways through area of Karimganj Port/ Badapur Ghat for 100 MW TGBPP, NEEPCO , Monarchak, Sonamura , Tripura

Tender no PSER:SCT:MRK-M1280:11

Sl No	Reference clause of tender document	Existing Provision	Bidder's query	BHEL's clarification
1	Vol IF-2.1.9	Firm-up barge sailing schedule for all ODC items after carrying out necessary verification of historical data related to water availability / draft etc. in the rivers, in consultation with appropriate governmental / non-governmental agencies and submit such schedule to BHEL for approval within 25 days from the date of LOI . Also firm up the land transportation schedule for all consignments including ODC items, in consultation with appropriate agencies and submit such schedule to BHEL for approval within 25 days from the date of LOI. Such schedule shall be in line with transportation time indicated elsewhere in this tender document.	Availability of required Water draft for barge transportation from Kolkata/Haldia to Karimganj is limited only during monsoon season. Hence, the MUs are to ensure readiness of ODCs as per their schedule of readiness indicated in Annexure-II to enable their transportation to Port of Discharge during monsoon season as otherwise it shall not be feasible to arrange their logistics from Kolkata/Haldia onwards under this job.	Latest dispatch schedule with additional two nos . ODCs is attached.
2	Vol IF-2.1.29	The approximate weight and dimension is enclosed as Annexure – II. Please note that the weights and sizes given at Annexure – II are indicative and for guiding the bidder. The actual Dispatch particulars may vary and shall be known at an appropriate stage from BHEL. Bidder shall not claim any compensation from BHEL towards such variation in actual Dispatch	Variance in weight and dimensions of consignments should be within feasible limits of logistics itself.	Weight and dimension of consignments is indicated in the latest dispatch schedule attached.

		particulars of OD Consignments with ref to tender information.		
3	Vol IF-2.1.30	<p>Based on the particulars of consignments given at Annexure – I bidder shall finalize and submit with offer the description of transport to be used for handling and shifting the ODCs from starting point to Monarchak site.</p> <p>In case of consignments weighing more than 100 MT i.e. GT (Gas Turbine) & Generator Stator from Hyderabad, the consignments should be first moved to a port near to Hyderabad preferably Machlipatnam & then brought to Port of Origin (Kolkata/Haldia or nearby place) by waterways.</p> <p>Bidder shall also specify the type/rating/spec and number of transport as well as handling equipment to be used for the complete operation of all the consignments.</p>	<p>For ODCs of BHEL Hyderabad MU, option is required to transport them either by road or waterways to Port of Origin.</p> <p>Further, in case of their transportation by costal waterways route, it shall be necessary to store them at decided port or near Hyderabad till possibility of transportation by waterways to Port of Origin considering foul weather restrictions.</p> <p>Similarly for ODCs of BHEL Trichy MU also, option is required to transport them by either road or waterways to Port of Origin. In case of their transportation by coastal waterways, it shall be necessary to store them at decided port or near Trichy for onward transportation by waterways to Port of Origin.</p>	<p>ODCs of BHEL Hyderabad MU weighing more than 100 MT may be transported either by multimodal or roadways depending upon the situation prevailing at the time of dispatch from MU.</p> <p>Storage of consignments will be as per tender provisions.</p> <p>For ODCs from Trichy – As per Tender provision.</p>
4	Vol IF-3.4	<p>Insurance BHEL has taken Comprehensive marine cum transit, storage cum Erection insurance policy for the total Project cost. However, Bidder shall take at his own cost Third party insurance and suitable insurance policy for his own men and material. Please note that these insurance policies shall be taken in consultation with the</p>	<p>In the Third Party insurance for bidder's men and material, it may not be possible to name BHEL and Owner as co-insured as most of the equipment and material are co-insured with their financiers.</p>	<p>Agreed. But the bidder has to submit Copy of SCP Policy (Covering their Capital items) as well as Third Party Liability Coverage</p>

		BHEL, where BHEL and Owner is to be named, as Co-insured and a copy of the insurance policy shall have to be furnished to BHEL within 30 days of the date of Notification of Award. For all the insurance policies (whether taken by the BHEL or Bidder), the Bidder shall be responsible for settlement of claims with the underwriters without any liability on the BHEL.		and Workmen Compensation Policy for the aforesaid jobs likely to be undertaken by them.
5	Vol IF-3.7.1	Consignment will be ready for dispatch as referred in Annexure – II from Dec., 2011 and last consignment is expected to be ready for dispatch by March, 2012 from starting point. The duration of the contract shall be 13 (Thirteen) months from start of work. If required, the contract may be extended for a mutually agreed period on existing terms and conditions.	Time window for transportation of ODC items from Port of Origin to Port of Discharge shall be limited during Monsoon season only. Therefore readiness of all consignments for completing their transportation to Port of Origin before monsoon season is imperative. The civil work from Port of Discharge to Monarchak site can be taken up after the monsoon season and its after effects are over. As the job involves huge volume of civil work from Port of Discharge to Monarchak site, it shall obviously take substantial time, only after which the consignments can be transported in this route. Hence the duration of contract should be at least 15 months.	As per tender provision.
6	Vol IF-3.7.2	However following time-schedule (Maximum) for transportation of OD Consignment of materials/equipments shall be adhered to: (i) Time period for transportation of each consignment from BHEL MU to port of origin - As per details below a)Time period from BHEL-Hyderabad to Port of	1. In case of road transport of ODCs from BHEL Hyderabad MU to Port of Origin, transit time required shall be at least 60 days.	1& 2. Time period for transportation of each consignment from BHEL Hyderabad MU to Port of Origin is revised from 40 to

		<p>Origin – 40 days</p> <p>b) Time period from BHEL-Jhansi to Port of Origin – 30 days</p> <p>c)Time period from BHEL-Trichy to Port of Origin – 44 days</p> <p>ii) Time period for transportation of each consignment from port of origin to port of discharge - 45 days.</p> <p>iii) Time period for transportation of each consignment from port of discharge to Monarchak site- 30 days.</p>	<p>2. In case of road cum waterways transportation, there shall be two transits i.e. from BHEL Hyderabad MU to Storage at Port or nearby Hyderabad for which transit time of 40 days shall be required; and for transit from Port or nearby Hyderabad to Port of Origin, transit time of another 40 days shall be required.</p> <p>3. Similarly in case of road cum waterways transportation of ODCs from BHEL Trichy MU also, there shall be two transits i.e. from BHEL Trichy MU to Storage at Port or nearby Trichy for which transit time of 15 days shall be required ; and for transit from Port or nearby Trichy to Port of Origin, transit time of another 30 days shall be required.</p> <p>4. Considering numerous hurdles and obstacles en-route between Port of Discharge to Monarchak site, for ODCs having height over 3.900 Meters, transit time required shall be at least 70 days.</p>	<p>45 days .</p> <p>3. As per tender provision.</p> <p>4. Time period for transportation of each consignment from Port of Discharge to Monarchak site is revised from 30 days to 40 days.</p>
7	Vol IF-	SERVICE TAX:	Please confirm that for the	Service tax will be

3.13.3	<p>For Transportation of goods through water ways Services taxable under section 65 (105) (zzzl) of Finance Act,1994, vendor will raise cenvatable invoice on the full value of the service without availing abatement as per notification NO16/2011 – Service Tax dtd. 01-03-2011.</p> <p>For Goods Transport service Services taxable under section 65(105)(zpz) of Finance Act,1994, BHEL will be liable for paying Service Tax under the reverse charge method and shall pay the tax directly to the Government Account Vendor will not be required to furnish any declaration for non availing of CENVAT Credit.</p> <p>SERVICE TAX FOR SURVEY , DESIGN , CONSTRUCTION / ARRANGEMENT OF RO-RO JETTY, BYPASSES, APPROACH ROAD Service tax as legally leviable & payable by the contractor for “survey, design, construction /arrangement of RO-RO Jetty, Bypasses, approach road services “of service tax law/act vide sec 65 (105) (ZZB), shall be paid by BHEL-P.S.E.R, Kolkata on contractor’s gross bill. The contractor shall furnish proof of service tax registration with central excise division covering the services under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by the contractor on B.H.E.L-P.S.E.R for this project. The contractor shall obtain prior approval of BHEL-P.S.E.R if there is any change in the above provision. B.H.E.LP.S.E.R will not be held to be responsible for non-compliance of various service tax rules, being framed from time to</p>	<p>purpose of valuation of services under different charging provisions of Service Tax law:</p> <ol style="list-style-type: none"> 1. Payment accruing under clause 3.3.4.1; clause 3.3.4.2, clause 3.3.4.3 and 3.3.4.5 shall be chargeable to Service Tax under section 65 (105) (zpb). 2. Payment accruing under clause 3.3.4.4 shall be chargeable to Service Tax either under section 65 (105) (zzzl) or section 65 (105) (zpz) for the value accruing for the particular routes as per the actual mode of transportation i.e. by road or waterways. 3. However, in case of multimodal transportation e.g. in case of consignments from BHE Hyderabad MU as specified and from BHEL Hyderabad/Trichy MU as per option asked for by us, please clarify whether the same shall be chargeable to Service Tax under 	<p>reimbursed to vendor / paid by BHEL as per extant rule/act.</p>
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		<p>time. With introduction of cenvat credit rules 2004 which came into force w.e.f. 10.09.2004, excise duty paid on input goods including capital goods used for or providing the output service and service tax paid on input service can be taken credit of against the service tax payable on output service. As such, while offering the rates, the contractor may take in to account the benefit of above provisions as the cost of input to contractor will be net of excise duty and service tax and adjust their offer price accordingly to make it more competitive.</p>	<p>Section 65 (105) (zzzzl) or section 65 (105) (zzp).</p>	
8	Vol IF-3.13.5	<p>New tax & duties, if imposed subsequent by statutory authority during contract period (including extension, if the same is not attributable to the contractor), shall be reimbursed by BHEL, respective units on production of relevant supporting document to the satisfaction of BHEL, PSER. However, vendor shall obtain prior approval from BHEL, PSER before depositing new taxes & duties.</p>	<p>Reimbursement of any new taxes and duties should also be reimbursed by BHEL, PSER as for all the other payments stipulated for the job.</p>	<p>Agreed.</p>
9	Vol IF-4.2	<p>Tools & tackles and consumables 4. Bidder shall submit the deployment plan of skilled / semi-skilled manpower (along with names and profiles and contact nos.), tool & plants, material handling equipment, consumable and hardware etc along with bid. It is required to assess the capability of bidder. However, it is the responsibility of the bidder to provide any additional number of the manpower and tool and tackles etc. required at work places over and above those specified in deployment plan in order to complete the work in timely and safe manner. 5. Arranging suitable wooden, steel and</p>	<p>1. Clarification is required that the dimensions given in Annexure-II are in the manner Length X Width X Height. 2. Reference drawings of Module Transport Structures have only been provided with Tender document. Please provide similar drawings for all the consignments for determination of process required for each consignment for their loading /unloading</p>	<p>1. Confirmed. 2. Drg. No. 0-04-118-80612-2-0 on HP drum from Trichy is attached. Further, the drawings pertaining to ODCs of Hyderabad & Jhansi units will be made available to the successful bidder after issue of</p>

	<p>concrete sleepers, pedestals, stools, rollers slings, ropes, hooks etc. required for receiving, transporting, unloading and storage of the said cargo.</p> <p>6. All T&P including special tools & tackles, low, semi low bed and specialized trailers with hydraulically lifting bed and trucks, barges etc required to carryout the work will be arranged by the bidder at his own cost.</p> <p>7. Bidder on his cost shall arrange all consumables and work shall not be allowed to suffer due to lack of any consumable. BHEL or their authorized representative reserves the right to procure the required consumables /get the work done by some other agency at the risk and cost of bidder in order to complete the work in timely and safe manner.</p> <p>8. Arrangement of welding / cutting machines, if required, to complete the work shall be made by the bidder at their own cost.</p> <p>9. Contactor shall not be paid any charges for mobilizing /demobilizing any particular T & P.</p> <p>10. Bidder shall provide the list of equipment owned or hired by them, key manpower and the mobilization plan for equipment / manpower.</p> <p>11. All T&P, lifting tackles & pulling devices to be deployed by the contractor must bear valid/ latest test certificates for their suitability, and documents shall be preserved at site.</p> <p>12. The contractor shall arrange at his own cost construction of temporary office at Karimganj / Badarpur Ghat to co-ordinate transportation of material & related activities for their personnel as well as to accommodate BHEL person for official duty. The office should be equipped with</p>	<p>/barge transportation ; requirement & cost of plant & machinery, tools, tackles, sleepers, pedestals, stools etc., and manpower.</p>	<p>LOI.</p>
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		<p>telephone/fax/computer/printer/internet facility.</p> <p>13. Transportation/handling/Storage/Preservation requirements of ODC items of concerned BHEL MUs are given in Annexures B1(Hyderabad) & B2 (Jhansi).</p>		
10	Vol IF-4.11.10.2	<p>The contract as entered into between BHEL and the transporter(s) shall in no way nullify, reduce, mitigate or absolve the parties of any responsibility, obligation or liability that may devolve upon them under the Carriers Act, 1865 as amended up to date.</p>	<p>Apropos notification of the Carriage by Road Act, 2007; the erstwhile Carriers Act, 1865 has since been repealed. Hence, all references to the Carriers Act, 1865 should be replaced by references to the Carriage by Road Act, 2007.</p>	<p>The prevailing Act/Law shall be adhered to.</p>
11	Annexure-1: Qualifying criteria Sr. No. 8.0 of PSER QUALIFICATION CRETERIA	<p>APPROVAL OF CUSTOMER M/S NEEPCO IS REQUIRED FOR CONSIDERATION OF THE BID .</p>	<p>Please clarify whether the bidder has to submit the approval from M/s NEEPCO – BHEL’s customer along with the tender offer or not.</p>	<p>Bidder has not to submit the approval from customer, M/s NEEPCO along with offer.</p>

Annexure – I (Rev-01)

DETAILS OF OD CONSIGNMENTS FOR 100 MW TGBPP, MONARCHAK						
SI.	DESCRIPTION	DIMENSIONS (in m)	WT. (MT)	NOS. OF CONSIGNMENT	CONCERNED UNIT	TO BE LIFTED FROM
1	HP DRUM	14 x 2.7 x 3	71	1	TRICHY	TRICHY
2	HRSB MODULES	10.2 x 3.95 x 2.5	40	18 SET	TRICHY	TRICHY
3	100 MVA GTG-GT	8 x 3.6 x 4.1	90	1	JHANSI	JHANSI
4	51.5 MVA STG-GT	5.2 x 3 x 4.2	60	1	JHANSI	JHANSI
5	20 MVA SST	5.3 x 2.4 x 3.4	40	2	JHANSI	JHANSI
6	Fr 6FA+ Gas Turbine	10.1 x 3.8 x 4.8	102	1	HYDERABAD	HYDERABAD
7	Gas Generator	8.6 x 4.0 x 4.8	150	1	HYDERABAD	HYDERABAD
8	Condenser	11.8 x 4.9 x 4.8	62	1	HYDERABAD	HYDERABAD
9	ST Generator	7.1 x 3.1 x 3.1	83	1	HYDERABAD	HYDERABAD
10	Accessory Module	9.2 x 3.5 x 4.5	50	1	HYDERABAD	HYDERABAD

Note: Dimension specified in Annexure-I (Revised) is indicative and for the guidance to the bidder. Actual dimension may vary up to +5% regarding length width & height and weight. In case of the dimension exceeding allowable limit, the matter will be mutually settled between BHEL & Vendor.

Annexure – I A (Rev-01)

Item wise transportation payment % weightage (Totally 100% of 44% of contract value as per clause no.3.3.4.4 of Chapter 3)

Sl.	DESCRIPTION	QTY (NOS.)	% weightage for storage of total qty. for payment purpose at both locations (Port of Origin & Port of Discharge)	% weightage for one no. of each item for payment purpose at both locations. (Each location payment to be split on prorata basis)
1	HP DRUM	1	4.5	4.5
2	HRSR MODULES	18 sets	40.5	2.25
3	100 MVA GTG-GT	1	6.5	6.5
4	51.5 MVA STG-GT	1	4.5	4.5
5	20 MVA SST	2	4	2
6	Fr 6FA+ Gas Turbine	1	10	10
7	Gas Generator	1	12	12
8	Condenser	1	6.5	6.5
9	ST Generator	1	5.5	5.5
10	Accessory Module	1	6	6

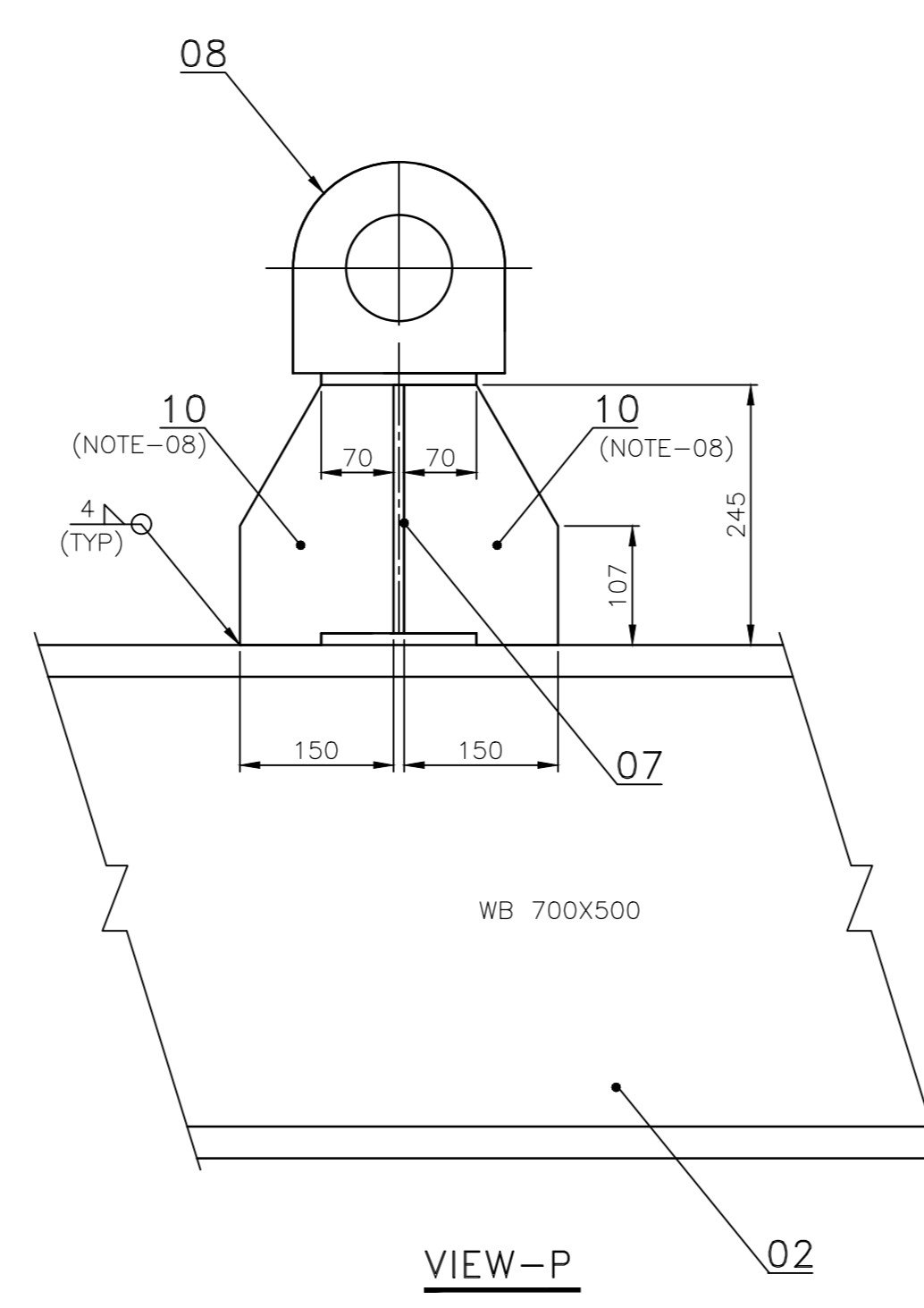
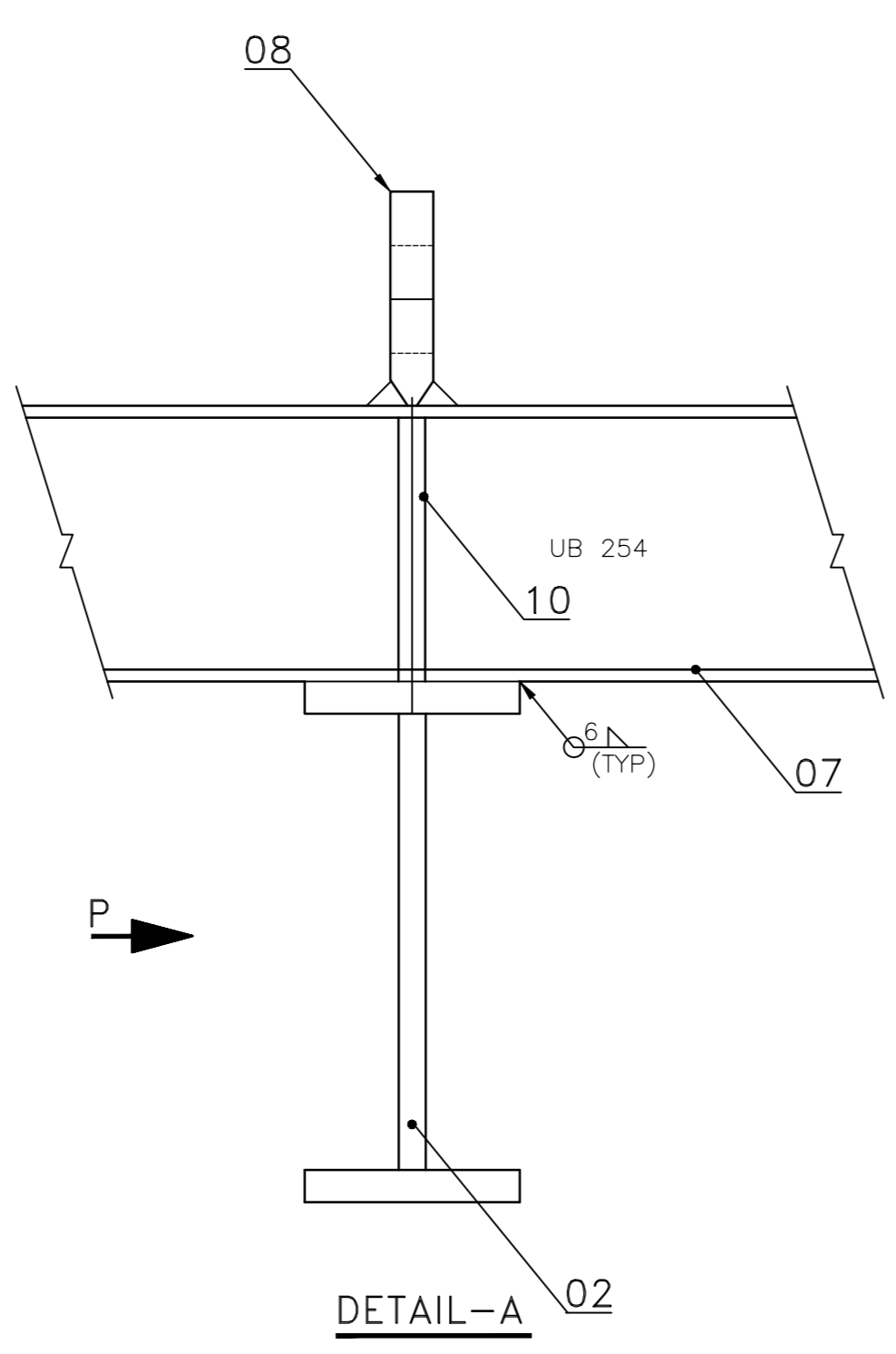
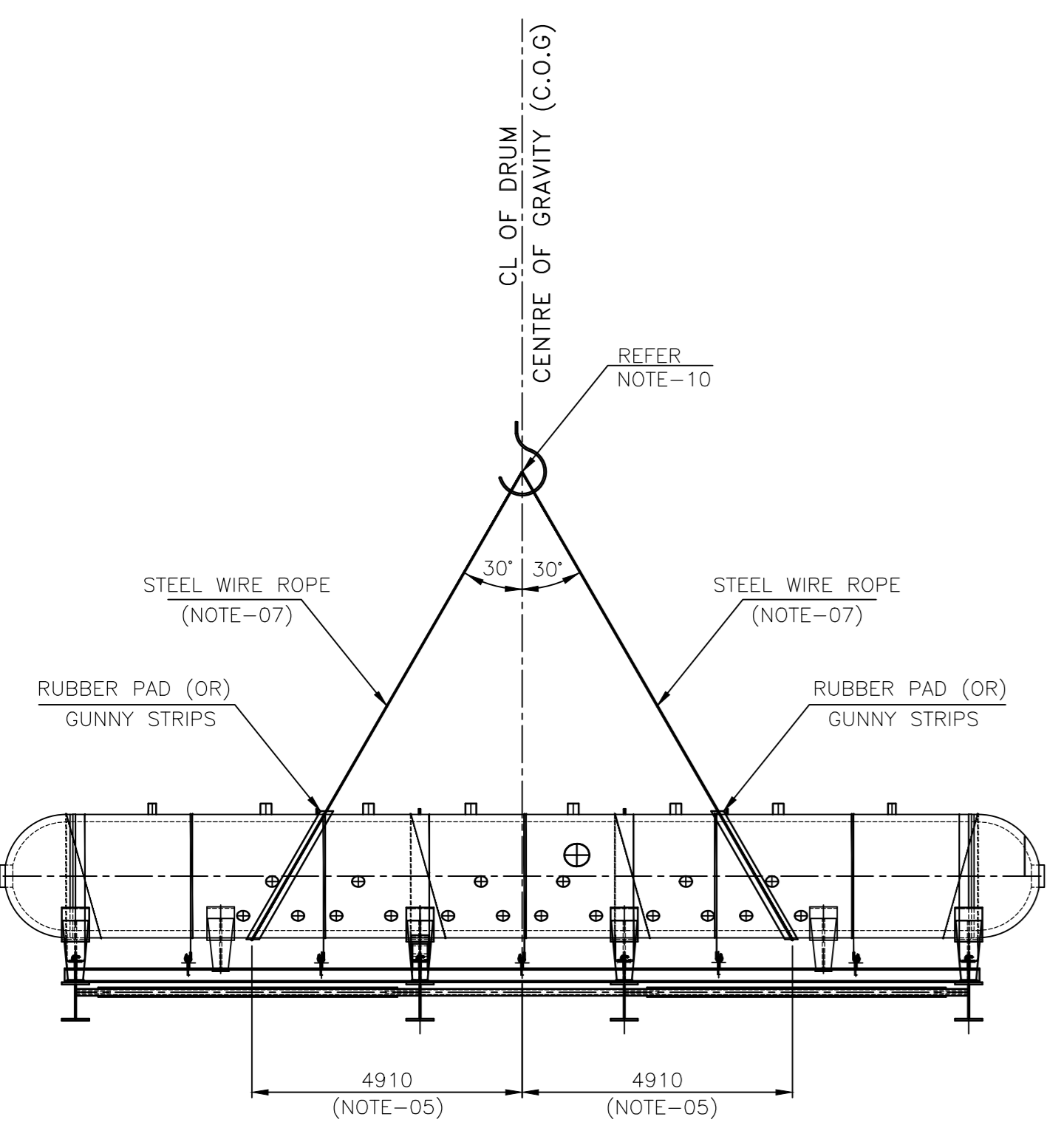
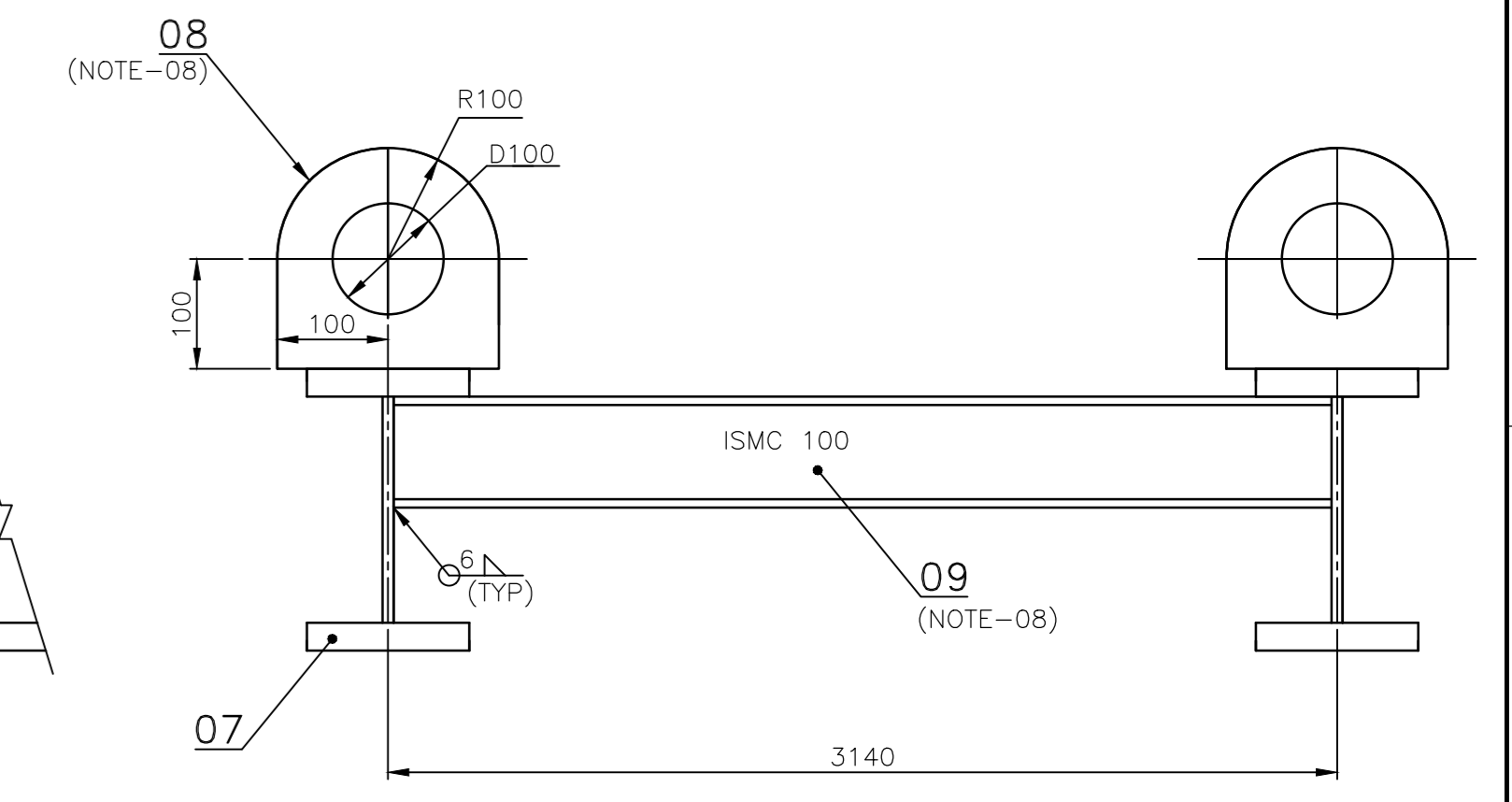
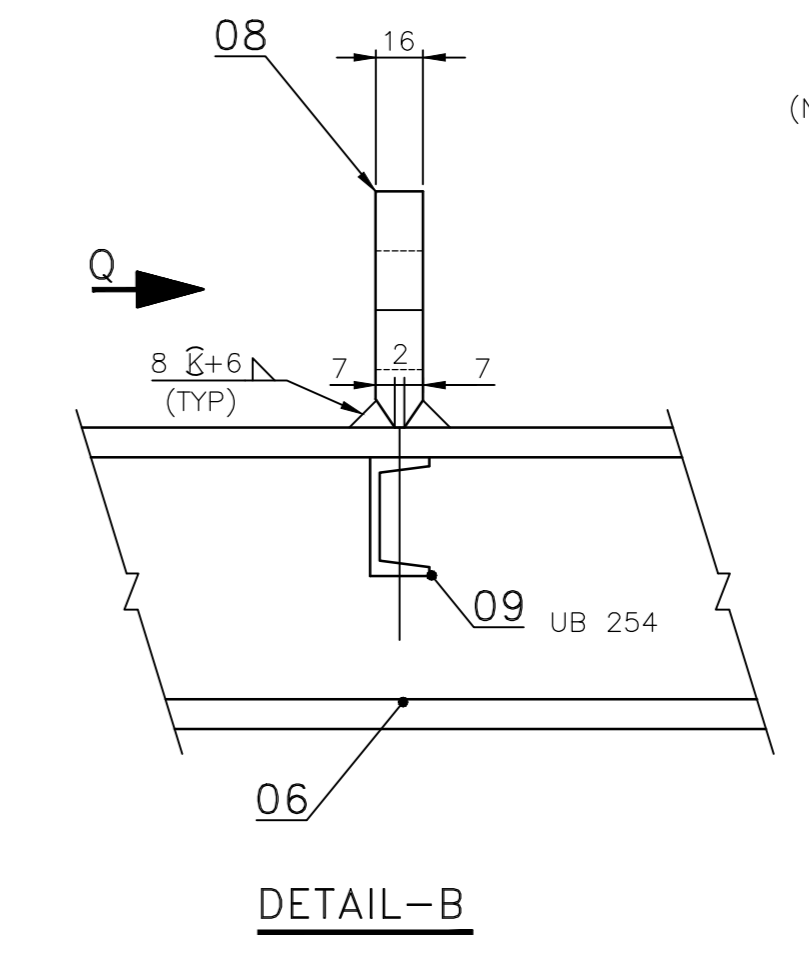
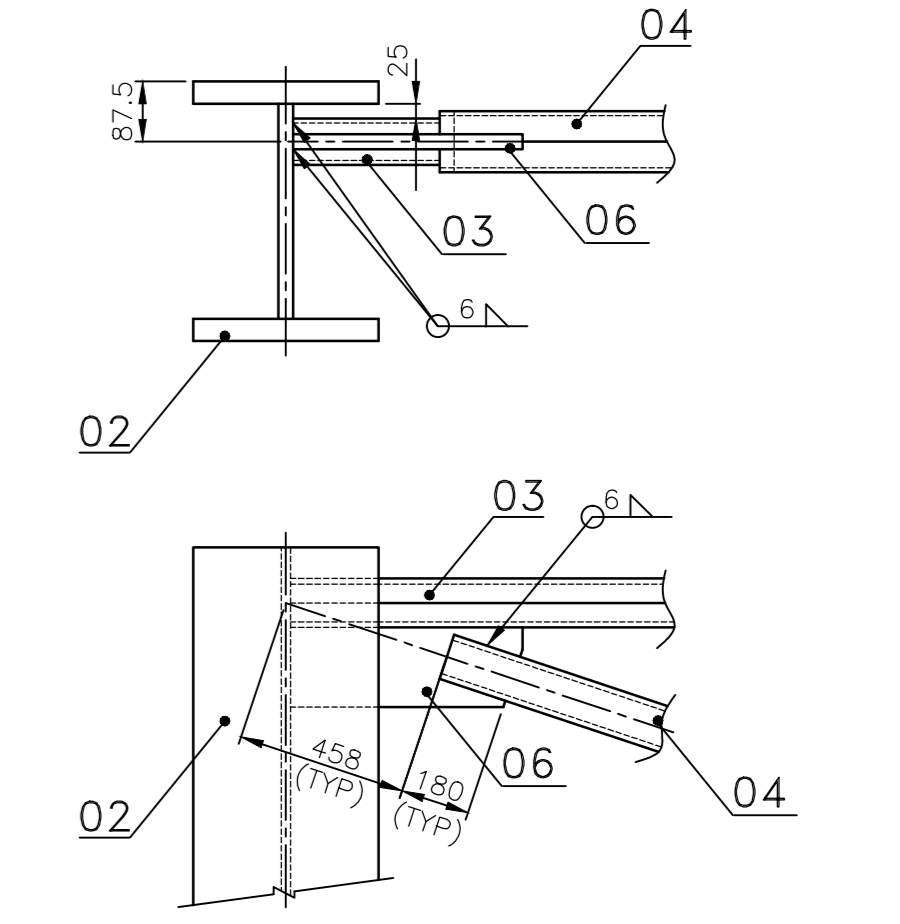
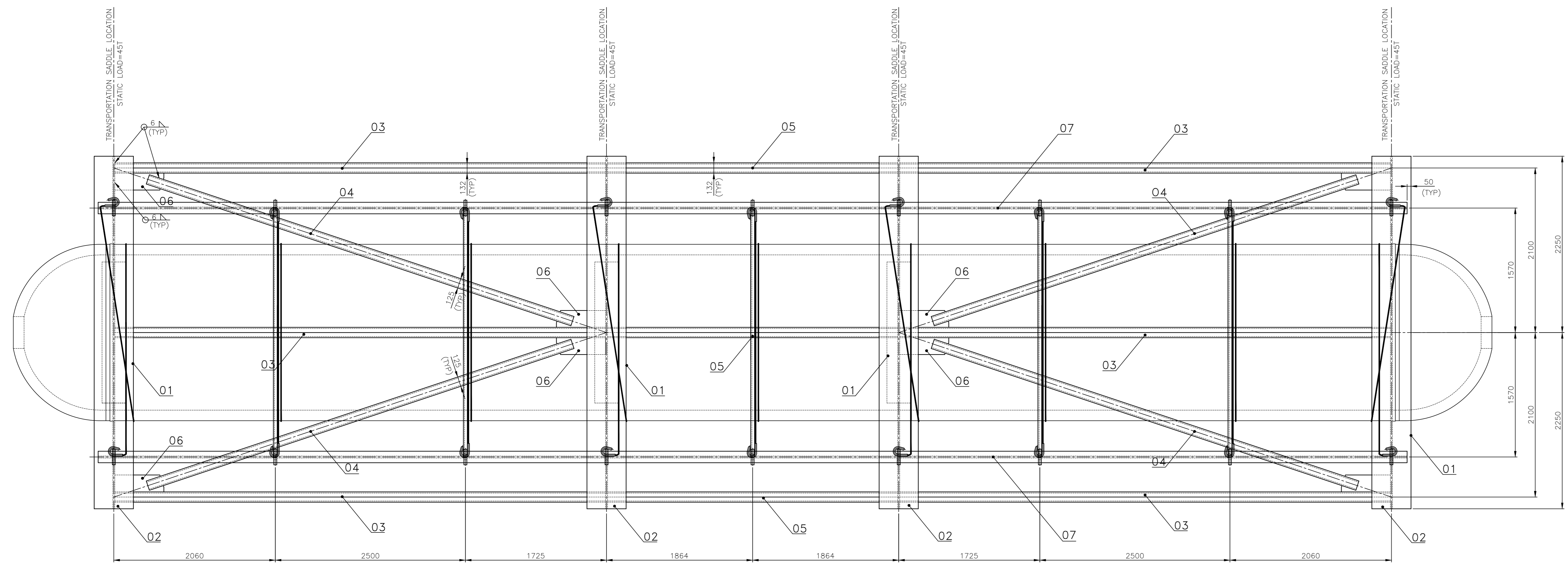
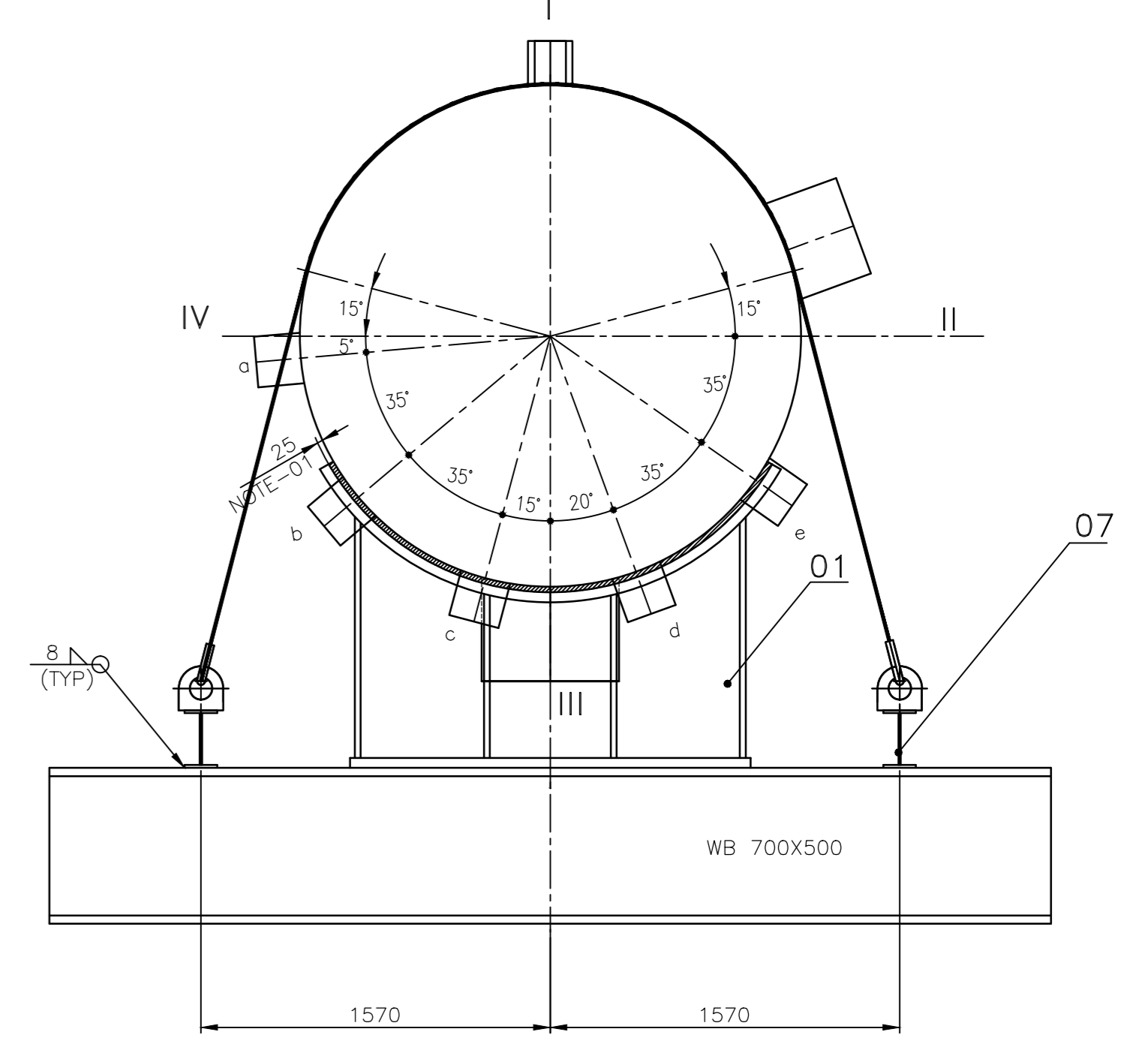
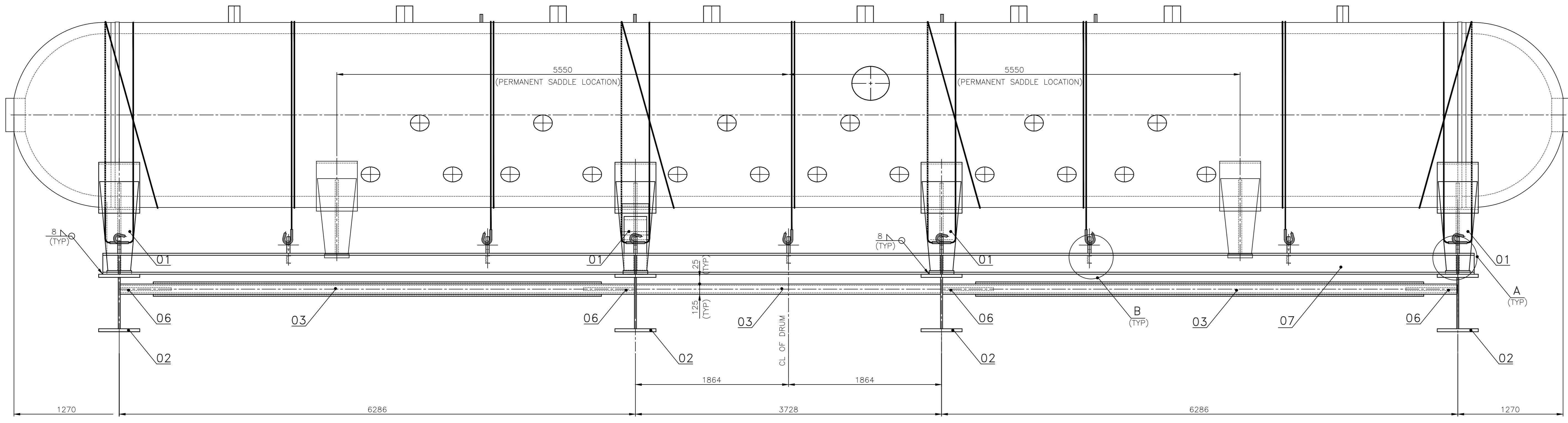
Annexure – I B (Rev-01)

Item wise % weightage break up for payment against storage/handling & preservation as per Clause no. 3.3.4.5 of Chapter 3

Sl.	DESCRIPTION	QTY (NOS.)	% weightage for storage of total qty. for payment purpose at both locations (Port of Origin & Port of Discharge)	% weightage for one no. of each item for payment purpose at both locations. (Each location payment to be split on prorata basis)
1	HP DRUM	1	4.5	4.5
2	HRSG MODULES	18 sets	40.5	2.25
3	100 MVA GTG-GT	1	6.5	6.5
4	51.5 MVA STG-GT	1	4.5	4.5
5	20 MVA SST	2	4	2
6	Fr 6FA+ Gas Turbine	1	10	10
7	Gas Generator	1	12	12
8	Condenser	1	6.5	6.5
9	ST Generator	1	5.5	5.5
10	Accessory Module	1	6	6

Annexure – II (Rev-01)
DELIVERY SCHEDULE OF ODCs

SL. No.	Major equipment/module	BHEL Unit	Weight (MT)/ Total No. of consignments	Dimensions (in Mtr)	DATE OF DISPATCH	Starting point for Transportation
1	HP DRUM	TRICHY	71 / 01	14 x 2.7 x 3	01/12	TRICHY
2	HRSG MODULES		40 / 18	10.2 x 3.95 x 2 .5	01/12 to 03/12	TRICHY
3	100 MVA GTG-GT	JHANSI	90 / 01	8 x 3.6 x 4.1	03/12	JHANSI
4	51.5 MVA STG-GT		60 / 01	5.2 x 3 x 4.2	02/12	JHANSI
5	20 MVA SST		40 / 02	5.3 x 2.4 x 3.4	02/12 & 03/12	JHANSI
6	Fr 6FA+ Gas Turbine	HYDERABAD	102/01	10.1 x 3.8 x 4.8	03/12	HYDERABAD
7	Gas Generator		150/01	8.6 x 4.0 x 4.8	03/12	HYDERABAD
8	Condenser		62/01	11.8 x 4.9 x 4.8	03/12	HYDERABAD
9	ST Generator		83/01	7.1 x 3.1 x 3.1	03/12	HYDERABAD
10	Accessory Module		50/01	9.2 x 3.5 x 4.5	03/12	HYDERABAD



- NOTES:-**
- WOODEN PAD TO BE PROVIDED MAINTAINING A THICKNESS OF 25mm AND WIDTH 300mm TO SUIT THE PROFILE OF THE DRUM DIMENSION AS SHOWN.
 - BEFORE LOADING THE DRUM ON THE WAGON, STEEL WIRE ROPE D12 HAVE TO BE WOUND AROUND THE DRUM AND TIED TO EYES (ITEM No.08) AS SHOWN.
 - THE STEEL WIRE ROPES SHALL BE WELL WRAPPED IN GUNNY STRIPS OR RUBBER PADS TO AVOID THEIR ABRADING THE DRUM SURFACE.
 - ITEM No.08 MAY BE USED SUITABLY FOR ANCHORING THE STRUCTURE USING WIRE ROPES. ITEM No.08 SHOULD NOT BE USED FOR LIFTING THE DRUM.
 - C.O.G. POINT ON BOTH SIDES AND LIFTING WIRE ROPE POSITION DETAIL SHOULD BE PAINTED ON THE DRUM.
 - ENSURE THAT ITEM No.02(WB700-4Nos.) SHOULD BE SEATED PROPERLY IN TRAILER/SHIP SURFACE.
 - TO BE LIFTED AFTER ENSURING STEEL WIRE ROPES(9 LOCATIONS) ARE TIED IN POSITION.
 - ITEM No.08(18Nos.), ITEM No.09(5Nos.), ITEM No.10(16Nos.) TO BE CUT SUITABLY TO THE REQUIRED DIMENSIONS AS SHOWN.

TOTAL WEIGHT OF DRUM INCLUDING TRANSPORTATION STRUCTURE: 170 MT

ITEM NO	DESCRIPTION	UNIT	QUANTITY	WEIGHT (kg)
10	GUSSET PLATE PL-10X245X2500		1	48,080
09	ISMC 100X50 L=16 RM		1	152,900
08	LUG PL-16X200X3700		1	92,940
07	UB 254 L=16700		2	617,900
06	GUSSET PLATE 4-04-118-82135		8	10,300
05	BOX 125 3-04-118-B4006	WELDMENT	3	97,300
04	BOX 125 3-04-118-B4005	WELDMENT	4	149,640
03	BOX 125 3-04-118-B4004	WELDMENT	6	164,320
02	WELDED BEAM 3-04-118-B4003	WELDMENT	4	848,360
01	TRANSPORTATION SADDLE 1-04-118-B0560	WELDMENT	4	1366,680

REV 02	DATE 08.12.10	ALTERED NOORDEEN CHKD & APPD T.RATNABALI	REV 01	DATE 09.11.10	ALTERED NOORDEEN CHKD & APPD T.RATNABALI
ITEM Nos.06,07,08&09 ALTERED AS ITEM NOS.07,08,09&10			ITEM Nos.06,07,08&09 ADDED DETAIL FOR THE ITEM Nos.06,07,08&09 ADDED. LIFTING DETAIL OF THE DRUM ADDED NOTE&BOM ALTERED.		

CAUTION: The information on this drawing is the property of the company. It is not to be used for any other purpose without the written consent of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: **Bharat Heavy Electricals Ltd**
 UNIT: HIGH PRESSURE ROVER PLANT
 THIRUCHIRAPPALLI - 620014

DESIGNER: A.DINAKHUMAR
 CHECKER: T.RATNABALI
 APPROVER: S.SALAMURUGAN

SCALE: N.T.S.
 WEIGHT (kg): 12348,660

DRAWING NO: 0-04-118-80612