Clause No.			GENERAL CONDITIONS OF CONTRACT (GCC)
			extended period as may otherwise be agreed upon between the Employer and the Contractor.
		18.5	**Work Procedures** The Contract shall be executed in accordance with the Contract Documents and the procedures given in the section on Forms and Procedures of the Contract Documents. If agreed between the Employer and the Contractor, the Contractor may execute the Contract in accordance with its own standard project execution plans and procedures to the extent that they do not conflict with the provisions contained in the Contract.
		18.6	**Maintenance of Records of Weekly Progress Review Meetings at site** The Contractor shall be required to attend all weekly site progress review meetings organized by the 'Project Manager' or his authorized representative. The deliberations in the meetings shall inter alia include the weekly program, progress of work (including details of manpower, tools and plants deployed by the contractor vis-a-vis agreed schedule), inputs to be provided by Employer, delays, if any, and recovery program, specific hindrances to work and work instructions by Employer. Record of Hindrances / events that lead to slow/ stoppage of smooth execution of work shall be maintained in "Hindrance Register". The minutes of the weekly meetings shall be recorded in triplicate in a numbered register available with the 'Project Manager', or his authorized representative. These recordings shall be jointly signed by the Project Manager or his authorized representative and the Contractor and one copy of the signed records shall be handed over to the Contractor.
19.	**Subcontracting**		
		19.1	Appendix 5 (List of Approved Subcontractors) to the Contract Agreement specifies major items of supply or services and a list of approved Subcontractors against each item, including vendors. Insofar as no Subcontractors are listed against any such item, the Contractor shall prepare a list of Subcontractors for such item for inclusion in such list. The Contractor may from time to time propose any addition to or deletion from any such list. The Contractor shall submit any such list or any modification thereto to the Employer for its approval in sufficient time so as not to impede the progress of work on the Facilities. Such approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties or responsibilities under the Contract.
		19.2	The Contractor shall select and employ its Subcontractors for such major items from those listed in the lists referred to in GCC Sub-Clause 19.1.
		19.3	For items or parts of the Facilities not specified in Appendix 5 (List of Approved Subcontractors) to the Contract Agreement, the Contractor may employ such Subcontractors as it may select, at its discretion.
		19.4	The Contractor shall not be allowed to sub-contract works to any subcontractor/ sub-vendor from a country which shares a land border with India unless such sub-contractor is registered with the competent Authority.

The Competent Authority for the purpose of registration shall be as mentioned in the Annexure-VI of SCC.

However, the said requirement of registration will not apply to subcontractors from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. The Contractor may apprise itself of the updated lists of such countries available in the website of the Ministry of External Affairs.

Procurement of raw material, components, etc. does not constitute subcontracting.

20. **Design And Engineering**

20.1 **Specifications and Drawings**

20.1.1 The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract, or where not so specified, in accordance with good engineering practice.

The Contractor shall be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents that it has prepared, whether such specifications, drawings and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors or omissions are not because of inaccurate information furnished in writing to the Contractor by or on behalf of the Employer.

20.1.2 The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designated by or on behalf of the Employer, by giving a notice of such disclaimer to the Project Manager.

20.2 **Codes and Standards**

Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date fifteen (15) days prior to deadline set for price bid submission shall apply unless otherwise specified. During Contract execution, any changes in such codes and standards shall be applied after approval by the Employer and shall be treated in accordance with GCC Clause 39 (Changes Originating from Contractor).

20.3 **Approval/Review of Technical Documents by Project Manager**

20.3.1 The Contractor shall prepare (or cause its Subcontractors to prepare) and furnish to the Project Manager the documents listed in Appendix 7 (List of Documents for Approval or Review) to the Contract Agreement for its approval or review as specified and as in accordance with the requirements of GCC Sub-Clause 18.2 (Program of Performance).

3.0	**FIELD QUALITY PLAN**
a)	Well before the start of the work, the contractor shall prepare and submit the Field Quality Plans (FQP) and obtain approval of Employer, which shall detail out for all the works, equipment, services, quality practices and procedures etc. in line with the requirement of the technical specifications to be followed by the contractor at site. This FQP shall cover for all the items / activities covered in the contract / schedule of items required, right from material procurement to completion of the work at site. An Indicative Field Quality Plan for civil works is enclosed at **Annexure II** for reference purpose.
4.0	**PURCHASE AND SERVICE**
a)	To facilitate advance planning of material testing/ approval of bought out items (BOI), well before the start of activity as per L-2 network, representative samples shall be procured by the contractor from approved sub-vendors and submitted to the EIC for his approval before bulk procurement. In case of manufacturers test certificate (MTC) is submitted for acceptance, it shall be clearly traceable and correlated with the consignment received at site. MTC of all bought out items (BOI) shall essentially contain all the test parameters / characteristics specified in the technical specifications / standards / codes. In case the manufacturer's test certificate does not mention these details, sample from each lot shall be tested at the Employer acceptable third-party lab. Approval of material / sample by the Employer shall not relieve the contractor of his responsibility, for their conformance to the specification, as well as the requisite performance and quality of material.
b)	Structural steel (plates and rolled sections i.e. channels, beams & angles) conforming to IS 2062 and Reinforcement steel conforming to IS 1786 supply if in the scope of the contractor shall be procured from Primary Steel Producers (Refer NOTE below). Currently, Primary Steel Producers acceptable are SAIL, JSW Steel Ltd, Jindal Steel & Power, Tata steel Ltd. (for Reinforcement steel/TMT bars), RINL (for long products/Rolled sections and Reinforcement steel/TMT bars), Arcelormittal Nippon Steel India Ltd. (for Flat products/ Steel Plates), ESL Steel Ltd. (for Reinforcement steel/TMT bars) and JSW Ispat Special Products Ltd. (for long products/Rolled sections and Reinforcement steel/TMT bars). Subsequently, if any new Primary Steel Producer/s are proposed during execution of contract, the same may be considered for acceptance subject to meeting the following qualifying requirements: i) The proposed supplier should be a Primary Steel Producer, having a minimum production capacity of one million tons per annum (MTPA). ii) The proposed supplier should be a regular manufacturer of Steel Plates and / or Rolled Sections and / or Reinforcement Steel for the last two years as on date of submission of proposal. iii) The proposed supplier should also be a registered licensee with Bureau of Indian Standards for BIS: 1786/2062 at the time of submission of proposal. NOTE: The "Primary Steel Producer" shall mean Steel Producer of any capacity, irrespective of process route, starting their operations from iron making using iron ore, virgin or processed, with necessary refining facilities and rolling/processing facilities, at a single location or else in multiple locations provided that the entire gamut of iron & steel production, from iron making to finished steel production, is owned by the same company or its subsidiary company(ies). Provided that the iron making capacity is sufficiently matching the steel making capacity. Further, downstream units should use material from the upstream units of the same company or its subsidiaries. In case of non-availability of certain steel section/s i.e. Angle smaller than 100x100x10 mm, MS flats, rounds, square bars and chequered plate from above

acceptable primary steel producers, an option is given to the Main contractor to source these sections directly from SAIL Conversion/Wet Leasing agent subject to the conditions given at point no. A) below:

A) Approval conditions for procurement of structural steel sections through SAIL Conversion/Wet Leasing agent:
1. Main Contractor to ensure continuity of BIS license of the manufacturer for the sections being manufactured for Employer supply.
2. Billets shall be procured from Employer approved Main Steel Producers. Proper records for traceability from raw material to final product shall be maintained.
3. 100% chemical analysis of the raw material (Billets) shall be carried out as per IS: 2830. Testing of one sample per 40 MT for each type of section or part thereof shall be carried out as per IS: 2062 on finished product.
4. Each lot of delivery of finished product shall be accompanied with co-relatable Manufacturer's Test Certificate (MTC). MTC of finished sections shall be correlated with original MTC for Billets received from Main Steel Producer and Manufacturer Test Report of chemical analysis of Billets mentioned at point no.3. MTC of finished sections shall include the reference of MTC for Billets from Main Steel Producer.
5. Employer will have access to carry out the surveillance checks for in-process stage.
6. In case of any defects are seen in the material, Main Contractor will replace the material without any cost implication to Employer.

In case of non-availability of certain size/s of steel tubes conforming to IS:1161 and Hollow (square and rectangular) steel sections conforming to IS: 4923 from above acceptable primary steel producers, the same may be sourced from BIS approved sources having valid BIS license subject to the conditions given at point no. B) below:

B) Approval conditions for procurement of Steel tubes conforming to IS: 1161 and Hollow (square and rectangular) steel sections conforming to IS: 4923 from BIS approved sources:
1. Main Contractor to ensure continuity of BIS license of the manufacturer for the sections being manufactured for Employer supply.
2. Raw materials shall be procured from Employer approved Main Steel Producers.
3. 100% chemical analysis of the raw material (steel) shall be carried out as per IS: 228. Testing of samples of steel tubes and hollow sections from each lot shall be carried out as per IS: 1161 & IS: 4923 respectively on finished product.
4. Each lot of delivery of finished product shall be accompanied with co-relatable Manufacturer's Test Certificate (MTC).
5. Employer will have access to carry out the surveillance checks for in-process stage.
6. In case of any defects are seen in the material, Main Contractor will replace the material without any cost implication to Employer.

The specific methodology to be followed for above procurement through conversion route/BIS approved sources route shall be subject to approval by Employer in advance.

Vendor No	Vendor Name	Mat Group	Material Group Description	Size Detail	COUNTRY	EMAIL	Specification	CITY1	ADDRESS1	ADDRESS2	ADDRESS3	ADDRESS4	ADDRESS5	CITY	PHONE1	PHONE2	POST CODE1	REGION	TRANSPZONE	Material Group Long Description
102216	Divyansh Steel Private Limited	STLHS	Structural Heavy Sec	ANGLES ONLY, A 130 MM FOR IS 2062 E250A	India	tender@divyanshsteel.com	IS2062GRA/BE250FE410W	Nagpur	Plot No. 183,	1st Floor Small Factory Area	Bagadganj			MH	9604525527	9373425516	440008	Nag	NAGPUR	Structurals: Heavy Section
101496	Sanvijay Rolling & Engineering Ltd	STLHS	Structural Heavy Sec	A-250 MM, C- 400 MM, B- 600 MM	India		IS2062GRA/BE250FE410W	Nagpur	9, Late Shri Puranlalji	Agrawal Road,	(Formerly Imambada Road),			MH			440018	Nag	NAGPUR	Structurals: Heavy Section
100140	MADHAV STELCO PVT. LTD	STLHS	Structural Heavy Sec	ANGLES:110 TO 200 MM, CHANNEL:300 MM	India	arpit@madhavstelco.com	IS2062GRA/BE250FE410W	MANDI GOBINDGARH	TALWARA ROAD, SIRHIND SIDE,					PB	01765-305600	9501040507	147301	MAN	LUDHIANA	Structurals: Heavy Section
19740	BEEKAY STRUCTURAL STEELS.,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	structural@eekaysteel.com	IS2062GRA/BE250FE410W	VISAKAPATNAM	PLOT NO.19-21 & 24-26,BLOCK-E,		UNIT:BEEKAY STEEL INDUSTRIES LTD,	AUTONAGAR,		AP	0891-6539029		530012	VIS	VIZAG	Structurals: Heavy Section
18396	NOBLE TECH INDUSTRIES PVT. LIMITED,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	vkgstructurals@yahoo.co.in	IS2062GRA/BE250FE410W	KANCHIPURM DIST.	14/2A2, MELAPAKKAM VILLAGE,			UTHIRAMERUR TALUK		TN	044 2467 2501	0 93827 22212	603402	KAN	KANCHIPURM	Structurals: Heavy Section
18320	C.G.ISPAT (P) LIMITED.,	STLHS	Structural Heavy Sec	ANGLES 130 TO 200 MM ,CHANNEL 300 TO 400 MM,BEAM 400 TO 600 MM.	India	cgispat@yahoo.com	IS2062GRA/BE250FE410W	RAIPUR	VILL : BAHESAR,			NEAR SITARA PHASE II,		CH	0771 2101738		492001	RAI	RAIPUR	Structurals: Heavy Section
18185	SPLENDID METAL PRODUCTS LTD,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	simplexim@sujana.com	IS2062GRA/BE250FE410W	VISAKHAPATNAM	SANIVADA VILLAGE,RAJEEVNAGAR					AP	0891-2587900		530046	VIS	VIZAG	Structurals: Heavy Section
17787	MTC BUSINESS PVT LTD	STLHS	Structural Heavy Sec	ANGLE:130-200 MM, BEAMS:400-500 MM, CHANNEL:300-400 MM	India	sachinparmaar@mtcgroup.in	IS2062GRA/BE250FE410W	CHENNAI	VI 'A' CALVE CHATEAU,			#808, POONAMALLEE HIGH ROAD,	KILPAUK,	TN	044 40858687	0 96771 27063	600010	CHE	CHENNAI	Structurals: Heavy Section
17017	VANDANA ISPAT LIMITED	STLHS	Structural Heavy Sec	ANGLES:130-200 MM,BEAMS:400-500 MM, CHANNELS: 300-400 MM	India	vandanaispat@gmail.com	IS2062GRA/BE250FE410W	RAIPUR.	VANDANA BUILDING, MG ROAD,					CH	0771 2535244	0771 2228355	492001	RAI	RAIPUR	Structurals: Heavy Section
16312	JEEVAKA INDUSTRIES PVT LTD	STLHS	Structural Heavy Sec	ALL RANGE	India	jeevakamail@gmail.com	IS2062GRA/BE250FE410W	HYDERABAD	11-6-27/17, 1st FLOOR,			OPP .IDPL FACTORY,	BALANAGAR	TG	040 23771692	0 9440065038	500037	HYD	HYDERABAD	Structurals: Heavy Section
15939	KHYATI ISPAT LTD	STLHS	Structural Heavy Sec	ANGLE/CHANNEL: UPTO 200MM/300MM	India	khyati_ispat@yahoo.com	IS2062GRA/BE250FE410W	RAIPUR.	AT- JARWAY,			PO-HIRAPUR,		CH	0771 232 5519	0 98260 89373	492099	RAI	RAIPUR	Structurals: Heavy Section
15928	STEELAUTHORITY OF INDIA LTD.,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India		IS2062GRA/BE250FE410W	BURNPUR	IISCO STEEL PLANT,					WB	0341 203506		713325	BUR	CALCUTTA	Structurals: Heavy Section
14892	SHRI BAJRANG ALLIANCE LTD.	STLHS	Structural Heavy Sec	ANGLE - 110 TO 250MM, BEAM 400 TO 500 MM CHANNEL 300 TO 400 MM	India	sales.sbal@goeltmt.com	IS2062GRA/BE250FE410W	RAIPUR	521-C, URLA INDUSTRIAL COMPLEX,			URLA, SARORA, BIRGAON,		CH	0771 428 8000	098264 22530	493221	RAI	RAIPUR	Structurals: Heavy Section
13999	SKS ISPAT & POWER LTD,	STLHS	Structural Heavy Sec	A130-200, B400-600 C300-400MM	India	rohitjaiswal@sksispat.com	IS2062GRA/BE250FE410W	New Delhi	A-18C, Naraina Industrial Area,			Phase-2,		DL	011-25897779	0 9818114173	110028	Ne	DELHI	Structurals: Heavy Section
13541	PRIME ISPAT LIMITED,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	pil@primeispat.com	IS2062GRA/BE250FE410W	RAIPUR	PYARELAL AGRAWAL MARG,			RAMSAGAR PARA,		CH	0771-421 2345/00	92291 14111	492001	RAI	RAIPUR	Structurals: Heavy Section
13474	K L STEELS (P) LTD,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	director@klsons.in	IS2062GRA/BE250FE410W	GAZIABAD	G.T.BULANDHSHAHAR ROAD,			NEAR LAL QUAN,		UP	0120 419 8405...	0 98710 13014	201009	GAZ	GAZIABAD	Structurals: Heavy Section
10786	NANDAN STEELS & POWER LTD.,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	office@nandansteels.com	IS2062GRA/BE250FE410W	CHATTISGARH	199-C,GROUND FLOOR,MAIN ROAD,			SAMTA COLONY,	RAIPUR-492001	CH	0771-4078000/19	0 93032-63200		CHA	RAIPUR	Structurals: Heavy Section
12439	JINDAL STEEL & POWER LIMITED,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	kannan@jspl.com	IS2062GRA/BE250FE410W	CHENNAI	PRINCE TOWERS,			DOOR NO. 25 & 26, 5TH FLOOR,	COLLEGE ROAD, NUNGAMBAKKAM,	TN	044-43446950	9444819597	600006	CHE	CHENNAI	Structurals: Heavy Section
11910	STEEL AUTHORITY OF INDIA LTD	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	kam01ban@sail-steel.com	IS2062GRA/BE250FE410W	BHILAI	ISPAT BHAWAN, FIRST FLOOR			BHILAI (M.P.)		CH			490001	BHI	BHILAI	Structurals: Heavy Section
11906	STEEL AUTHORITY OF INDIA LTD	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	kamchn@sail-steel.com	IS2062GRA/BE250FE410W	DURGAPUR	DURGAPUR STEEL PLANT					WB			713203	DUR	DURGAPUR	Structurals: Heavy Section
13338	RELIABLE SPONGE PVT.LTD.,	STLHS	Structural Heavy Sec	A130-200, B400-600, C300-400MM	India	mvsl.in@gmail.com	IS2062GRA/BE250FE410W	DIST.SUNDARGARH(ORISSA)	DUA COMPLEX,PAN POSH ROAD,			ROURKELA-769 004		OR	0661-2402344	0661 240 0234		DIS	ROURKELA	Structurals: Heavy Section
17017	VANDANA ISPAT LIMITED	STLLS	Structural Light Sec	BEAM:150-200 MM, CHANNELS: 125-150 MM	India	vandanaispat@gmail.com	IS2062 GR.A E250FE410W	RAIPUR.	VANDANA BUILDING, MG ROAD,					CH	0771 2535244	0771 2228355	492001	RAI	RAIPUR	Structurals: Light Section
17019	VANDANA ROLLING MILLS LIMITED	STLLS	Structural Light Sec	ANGLES:40-65 MM,BEAMS:125 MM, CHANNELS: 75 & 100 MM	India	vandanaispat@gmail.com	IS2062 GR.A E250FE410W	RAIPUR.	VANDANA BUILDING, MG ROAD,					CH	0771 2535244	0771 2228355	492001	RAI	RAIPUR	Structurals: Light Section
11910	STEEL AUTHORITY OF INDIA LTD	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	kam01ban@sail-steel.com	IS2062 GR.A E250FE410W	BHILAI	ISPAT BHAWAN, FIRST FLOOR			BHILAI (M.P.)		CH			490001	BHI	BHILAI	Structurals: Light Section
17787	MTC BUSINESS PVT LTD	STLLS	Structural Light Sec	(ANGLE:50-65 MM, BEAMS:125-200 MM, CHANNEL:75-150 MM)	India	sachinparmaar@mtcgroup.in	IS2062 GR.A E250FE410W	CHENNAI	VI 'A' CALVE CHATEAU,			#808, POONAMALLEE HIGH ROAD,	KILPAUK,	TN	044 40858687	0 96771 27063	600010	CHE	CHENNAI	Structurals: Light Section
18185	SPLENDID METAL PRODUCTS LTD,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	simplexim@sujana.com	IS2062 GR.A E250FE410W	VISAKHAPATNAM	SANIVADA VILLAGE,RAJEEVNAGAR					AP	0891-2587900		530046	VIS	VIZAG	Structurals: Light Section
18320	C.G.ISPAT (P) LIMITED.,	STLLS	Structural Light Sec	CHANNEL 125 TO 150 MM, BEAM 125 TO 200 MM	India	cgispat@yahoo.com	IS2062 GR.A E250FE410W	RAIPUR	VILL : BAHESAR,			NEAR SITARA PHASE II,		CH	0771 2101738		492001	RAI	RAIPUR	Structurals: Light Section
11906	STEEL AUTHORITY OF INDIA LTD	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	kamchn@sail-steel.com	IS2062 GR.A E250FE410W	DURGAPUR	DURGAPUR STEEL PLANT					WB			713203	DUR	DURGAPUR	Structurals: Light Section
18396	NOBLE TECH INDUSTRIES PVT. LIMITED,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	vkgstructurals@yahoo.co.in	IS2062 GR.A E250FE410W	KANCHIPURM DIST.	14/2A2, MELAPAKKAM VILLAGE,			UTHIRAMERUR TALUK		TN	044 2467 2501	0 93827 22212	603402	KAN	KANCHIPURM	Structurals: Light Section
18423	CHENNAI UNITED METAL INDUSTRIES	STLLS	Structural Light Sec	ANGLES: 40 TO 65 MM	India	chennaiumi@yahoo.com	IS2062 GR.A E250FE410W	GUMMIDIPUNDI	1002/1019 K.S.Road,			SIRUPUZHALPETTAI, KETNAMALLE VILL.		TN	0 74011 20334	0 98400 80802	601201	GUM	CHENNAI	Structurals: Light Section
18782	PMP IRON AND STEELS (INDIA) LTD	STLLS	Structural Light Sec	ANGLES 25X3 TO 65X6	India	pmpvenkat@gmail.com	IS2062 GR.A E250FE410W	CHENNAI.	NO.2, NELSON MANICKAM ROAD,			AMINIJIKARAI,		TN	04423745203	0 8939273962	600029	CHE	CHENNAI	Structurals: Light Section
19463	RAMSONS CASTINGS PVT LTD	STLLS	Structural Light Sec	35 TO 65 MM IS 2062 - FE 410 GR A.	India	marketing@ramsons.co.in	IS2062 GR.A E250FE410W	NAGPUR.	A-301, NEETI GAURAV COMPLEX,			CENTRAL BAZAR ROAD, RAMDASPETH,		MH	07122435903	9225237477	440010	NAG	NAGPUR	Structurals: Light Section
19740	BEEKAY STRUCTURAL STEELS.,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	structural@eekaysteel.com	IS2062 GR.A E250FE410W	VISAKAPATNAM	PLOT NO.19-21 & 24-26,BLOCK-E,		UNIT:BEEKAY STEEL INDUSTRIES LTD,	AUTONAGAR,		AP	0891-6539029		530012	VIS	VIZAG	Structurals: Light Section
11540	RASHTRIYA ISPAT NIGAM LIMITED	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	rinlbsochennai@yahoo.com	IS2062 GR.A E250FE410W	CHENNAI	RASHMI TOWERS,4th FLOOR,NO.1,VILLAGE ROAD,			(VALLUVAR KOTTAM HIGH ROAD)	NUNGAMBAKKAM,	TN	044 - 28240557	0 9962035360	600034	CHE	CHENNAI	Structurals: Light Section
100140	MADHAV STELCO PVT. LTD	STLLS	Structural Light Sec	ANGLES:40 TO 65 MM, CHANNEL:125 TO 150 MM, BEAM:150 TO 200 MM	India	arpit@madhavstelco.com	IS2062 GR.A E250FE410W	MANDI GOBINDGARH	TALWARA ROAD, SIRHIND SIDE,					PB	01765-305600	9501040507	147301	MAN	LUDHIANA	Structurals: Light Section
101496	Sanvijay Rolling & Engineering Ltd	STLLS	Structural Light Sec	A-65 MM, C- 100 MM, B- 200 MM	India		IS2062 GR.A E250FE410W	Nagpur	9, Late Shri Puranlalji	Agrawal Road,	(Formerly Imambada Road),			MH			440018	Nag	NAGPUR	Structurals: Light Section
10786	NANDAN STEELS & POWER LTD.,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	office@nandansteels.com	IS2062 GR.A E250FE410W	CHATTISGARH	199-C,GROUND FLOOR,MAIN ROAD,			SAMTA COLONY,	RAIPUR-492001	CH	0771-4078000/19	0 93032-63200		CHA	RAIPUR	Structurals: Light Section
102095	BALAJEE STRUCTURAL [INDIA] LTD	STLLS	Structural Light Sec	ANGLE ISA- 40- 65 MM, CHANNEL ISMC 75 TO 200 MM AND BEAMS ISMB 125-250 MM	India	marketing@balajeegroupindia.com	IS2062 GR.A E250FE410W	RAIPUR	AGRASEN CHOWK	BAJRANGNAGAR				CH	07714032690	9827126751	492001	RAI	RAIPUR	Structurals: Light Section
102216	Divyansh Steel Private Limited	STLLS	Structural Light Sec	ANGLES & CHANNELS ONLY, A 40- 65 MM & C 75-150 MM FOR IS 2062 E250A	India	tender@divyanshsteel.com	IS2062 GR.A E250FE410W	Nagpur	Plot No. 183,	1st Floor Small Factory Area	Bagadganj			MH	9604525527	9373425516	440008	Nag	NAGPUR	Structurals: Light Section
14771	KANISHK STEEL INDUSTRIES Ltd.,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	obadarinath@gmail.com	IS2062 GR.A E250FE410W	CHENNAI.	OLD # 4, NEW 7,			THIRU-VI-KA 3RD STREET,	ROYAPETTA HIGH ROAD, MYLAPORE,	TN	044-42919700		600004	CHE	CHENNAI	Structurals: Light Section
13474	K L STEELS (P) LTD,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	director@klsons.in	IS2062 GR.A E250FE410W	GAZIABAD	G.T.BULANDHSHAHAR ROAD,			NEAR LAL QUAN,		UP	0120 419 8405...	0 98710 13014	201009	GAZ	GAZIABAD	Structurals: Light Section
16312	JEEVAKA INDUSTRIES PVT LTD	STLLS	Structural Light Sec	ALL RANGE	India	jeevakamail@gmail.com	IS2062 GR.A E250FE410W	HYDERABAD	11-6-27/17, 1st FLOOR,			OPP .IDPL FACTORY,	BALANAGAR	TG	040 23771692	0 9440065038	500037	HYD	HYDERABAD	Structurals: Light Section
14892	SHRI BAJRANG ALLIANCE LTD.	STLLS	Structural Light Sec	BEAM 100 TO 200 MM CHANNEL 125 TO 150 MM	India	sales.sbal@goeltmt.com	IS2062 GR.A E250FE410W	RAIPUR	521-C, URLA INDUSTRIAL COMPLEX,			URLA, SARORA, BIRGAON,		CH	0771 428 8000	098264 22530	493221	RAI	RAIPUR	Structurals: Light Section
15939	KHYATI ISPAT LTD	STLLS	Structural Light Sec	ANGLE/CHANNEL/BEAM: UPTO 65MM/150MM/200MM	India	khyati_ispat@yahoo.com	IS2062 GR.A E250FE410W	RAIPUR.	AT- JARWAY,			PO-HIRAPUR,		CH	0771 232 5519	0 98260 89373	492099	RAI	RAIPUR	Structurals: Light Section
12439	JINDAL STEEL & POWER LIMITED,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	kannan@jspl.com	IS2062 GR.A E250FE410W	CHENNAI	PRINCE TOWERS,			DOOR NO. 25 & 26, 5TH FLOOR,	COLLEGE ROAD, NUNGAMBAKKAM,	TN	044-43446950	9444819597	600006	CHE	CHENNAI	Structurals: Light Section
13541	PRIME ISPAT LIMITED,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	pil@primeispat.com	IS2062 GR.A E250FE410W	RAIPUR	PYARELAL AGRAWAL MARG,			RAMSAGAR PARA,		CH	0771-421 2345/00	92291 14111	492001	RAI	RAIPUR	Structurals: Light Section
15928	STEELAUTHORITY OF INDIA LTD.,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India		IS2062 GR.A E250FE410W	BURNPUR	IISCO STEEL PLANT,					WB	0341 203506		713325	BUR	CALCUTTA	Structurals: Light Section
15897	MAHAVIR STEEL INDUSTRIES LTD.	STLLS	Structural Light Sec	ANGLES: 50-65 MM, BEAMS: 125-200 MM & CHANNELS: 75-100 MM	India	ranjeetchakra@rediffmail.com	IS2062 GR.A E250FE410W	YAWAT.	GAT NO.236/1,			PUNE SOLAPUR ROAD,		MH	022 6633 1210	0 92233 75674	412214	YAW	MUMBAI	Structurals: Light Section
13999	SKS ISPAT & POWER LTD,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	rohitjaiswal@sksispat.com	IS2062 GR.A E250FE410W	New Delhi	A-18C, Naraina Industrial Area,			Phase-2,		DL	011-25897779	0 9818114173	110028	Ne	DELHI	Structurals: Light Section
13338	RELIABLE SPONGE PVT.LTD.,	STLLS	Structural Light Sec	A40-65,B125-200,C75-150MM	India	mvsl.in@gmail.com	IS2062 GR.A E250FE410W	DIST.SUNDARGARH(ORISSA)	DUA COMPLEX,PAN POSH ROAD,			ROURKELA-769 004		OR	0661-2402344	0661 240 0234		DIS	ROURKELA	Structurals: Light Section
13999	SKS ISPAT & POWER LTD,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	rohitjaiswal@sksispat.com	IS2062GRA/BE250FE410W	New Delhi	A-18C, Naraina Industrial Area,			Phase-2,		DL	011-25897779	0 9818114173	110028	Ne	DELHI	Structurals: Medium Section
19740	BEEKAY STRUCTURAL STEELS.,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	structural@eekaysteel.com	IS2062GRA/BE250FE410W	VISAKAPATNAM	PLOT NO.19-21 & 24-26,BLOCK-E,		UNIT:BEEKAY STEEL INDUSTRIES LTD,	AUTONAGAR,		AP	0891-6539029		530012	VIS	VIZAG	Structurals: Medium Section
11540	RASHTRIYA ISPAT NIGAM LIMITED	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	rinlbsochennai@yahoo.com	IS2062GRA/BE250FE410W	CHENNAI	RASHMI TOWERS,4th FLOOR,NO.1,VILLAGE ROAD,			(VALLUVAR KOTTAM HIGH ROAD)	NUNGAMBAKKAM,	TN	044 - 28240557	0 9962035360	600034	CHE	CHENNAI	Structurals: Medium Section
100140	MADHAV STELCO PVT. LTD	STLMS	Structural MediumSec	ANGLES:70 TO 100 MM, CHANNEL:175 TO 250 MM, BEAM:250 MM	India	arpit@madhavstelco.com	IS2062GRA/BE250FE410W	MANDI GOBINDGARH	TALWARA ROAD, SIRHIND SIDE,					PB	01765-305600	9501040507	147301	MAN	LUDHIANA	Structurals: Medium Section
10786	NANDAN STEELS & POWER LTD.,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	office@nandansteels.com	IS2062GRA/BE250FE410W	CHATTISGARH	199-C,GROUND FLOOR,MAIN ROAD,			SAMTA COLONY,	RAIPUR-492001	CH	0771-4078000/19	0 93032-63200		CHA	RAIPUR	Structurals: Medium Section
13541	PRIME ISPAT LIMITED,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	pil@primeispat.com	IS2062GRA/BE250FE410W	RAIPUR	PYARELAL AGRAWAL MARG,			RAMSAGAR PARA,		CH	0771-421 2345/00	92291 14111	492001	RAI	RAIPUR	Structurals: Medium Section
101496	Sanvijay Rolling & Engineering Ltd	STLMS	Structural MediumSec	A-100 MM, C- 250 MM, B- 350 MM	India		IS2062GRA/BE250FE410W	Nagpur	9, Late Shri Puranlalji	Agrawal Road,	(Formerly Imambada Road),			MH			440018	Nag	NAGPUR	Structurals: Medium Section
13338	RELIABLE SPONGE PVT.LTD.,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	mvsl.in@gmail.com	IS2062GRA/BE250FE410W	DIST.SUNDARGARH(ORISSA)	DUA COMPLEX,PAN POSH ROAD,			ROURKELA-769 004		OR	0661-2402344	0661 240 0234		DIS	ROURKELA	Structurals: Medium Section
102095	BALAJEE STRUCTURAL [INDIA] LTD	STLMS	Structural MediumSec	ANGLE ISA- 75 TO 100 MM, CHANNEL ISMC 200 MM AND BEAMS ISMB 250 MM	India	marketing@balajeegroupindia.com	IS2062GRA/BE250FE410W	RAIPUR	AGRASEN CHOWK	BAJRANGNAGAR				CH	07714032690	9827126751	492001	RAI	RAIPUR	Structurals: Medium Section
13474	K L STEELS (P) LTD,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	director@klsons.in	IS2062GRA/BE250FE410W	GAZIABAD	G.T.BULANDHSHAHAR ROAD,			NEAR LAL QUAN,		UP	0120 419 8405...	0 98710 13014	201009	GAZ	GAZIABAD	Structurals: Medium Section
102216	Divyansh Steel Private Limited	STLMS	Structural MediumSec	ANGLES ONLY, A 75-100 MM FOR IS 2062 E250A	India	tender@divyanshsteel.com	IS2062GRA/BE250FE410W	Nagpur	Plot No. 183,	1st Floor Small Factory Area	Bagadganj			MH	9604525527	9373425516	440008	Nag	NAGPUR	Structurals: Medium Section
14771	KANISHK STEEL INDUSTRIES Ltd.,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	obadarinath@gmail.com	IS2062GRA/BE250FE410W	CHENNAI.	OLD # 4, NEW 7,			THIRU-VI-KA 3RD STREET,	ROYAPETTA HIGH ROAD, MYLAPORE,	TN	044-42919700		600004	CHE	CHENNAI	Structurals: Medium Section
18423	CHENNAI UNITED METAL INDUSTRIES	STLMS	Structural MediumSec	ANGLES: 75 TO 100 MM	India	chennaiumi@yahoo.com	IS2062GRA/BE250FE410W	GUMMIDIPUNDI	1002/1019 K.S.Road,			SIRUPUZHALPETTAI, KETNAMALLE VILL.		TN	0 74011 20334	0 98400 80802	601201	GUM	CHENNAI	Structurals: Medium Section
14892	SHRI BAJRANG ALLIANCE LTD.	STLMS	Structural MediumSec	ANGLE -75 TO 100MM, BEAM 250 TO 350 MM CHANNEL 175 TO 250 MM	India	sales.sbal@goeltmt.com	IS2062GRA/BE250FE410W	RAIPUR	521-C, URLA INDUSTRIAL COMPLEX,			URLA, SARORA, BIRGAON,		CH	0771 428 8000	098264 22530	493221	RAI	RAIPUR	Structurals: Medium Section
18396	NOBLE TECH INDUSTRIES PVT. LIMITED,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	vkgstructurals@yahoo.co.in	IS2062GRA/BE250FE410W	KANCHIPURM DIST.	14/2A2, MELAPAKKAM VILLAGE,			UTHIRAMERUR TALUK		TN	044 2467 2501	0 93827 22212	603402	KAN	KANCHIPURM	Structurals: Medium Section
15897	MAHAVIR STEEL INDUSTRIES LTD.	STLMS	Structural MediumSec	ANGLES: 75-110 MM	India	ranjeetchakra@rediffmail.com	IS2062GRA/BE250FE410W	YAWAT.	GAT NO.236/1,			PUNE SOLAPUR ROAD,		MH	022 6633 1210	0 92233 75674	412214	YAW	MUMBAI	Structurals: Medium Section

18320	C.G.ISPAT (P) LIMITED.,	STLMS	Structural MediumSec	A 80-100,B250-350,C200-250 MM	India	cgispat@yahoo.com	IS2062GRA/BE250FE410W	RAIPUR	VILL : BAHESAR,			NEAR SITARA PHASE II,		CH	0771 2101738		492001	RAI	RAIPUR	Structurals: Medium Section
12439	JINDAL STEEL & POWER LIMITED,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	kannan@jspl.com	IS2062GRA/BE250FE410W	CHENNAI	PRINCE TOWERS,			DOOR NO. 25 & 26, 5TH FLOOR,	COLLEGE ROAD, NUNGAMBAKKAM,	TN	044-43446950	9444819597	600006	CHE	CHENNAI	Structurals: Medium Section
11906	STEEL AUTHORITY OF INDIA LTD	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	kamchn@sail-steel.com	IS2062GRA/BE250FE410W	DURGAPUR	DURGAPUR STEEL PLANT					WB			713203	DUR	DURGAPUR	Structurals: Medium Section
18185	SPLENDID METAL PRODUCTS LTD,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	simplexim@sujana.com	IS2062GRA/BE250FE410W	VISAKHAPATNAM	SANIVADA VILLAGE,RAJEEVNAGAR					AP	0891-2587900		530046	VIS	VIZAG	Structurals: Medium Section
15928	STEELAUTHORITY OF INDIA LTD.,	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India		IS2062GRA/BE250FE410W	BURNPUR	IISCO STEEL PLANT,					WB	0341 203506		713325	BUR	CALCUTTA	Structurals: Medium Section
17787	MTC BUSINESS PVT LTD	STLMS	Structural MediumSec	ANGLE:75-100 MM, BEAMS:250-350 MM, CHANNEL:200-250 MM	India	sachinparmaar@mtcgroup.in	IS2062GRA/BE250FE410W	CHENNAI	VI 'A' CALVE CHATEAU,			#808, POONAMALLEE HIGH ROAD,	KILPAUK,	TN	044 40858687	0 96771 27063	600010	CHE	CHENNAI	Structurals: Medium Section
17019	VANDANA ROLLING MILLS LIMITED	STLMS	Structural MediumSec	ANGLES:75-90 MM	India	vandanaispat@gmail.com	IS2062GRA/BE250FE410W	RAIPUR.	VANDANA BUILDING, MG ROAD,					CH	0771 2535244	0771 2228355	492001	RAI	RAIPUR	Structurals: Medium Section
15939	KHYATI ISPAT LTD	STLMS	Structural MediumSec	ANGLE/CHANNEL/BEAM: UPTO 100MM/250MM/250MM	India	khyati_ispat@yahoo.com	IS2062GRA/BE250FE410W	RAIPUR.	AT- JARWAY,			PO-HIRAPUR,		CH	0771 232 5519	0 98260 89373	492099	RAI	RAIPUR	Structurals: Medium Section
17017	VANDANA ISPAT LIMITED	STLMS	Structural MediumSec	ANGLES:100 MM,BEAMS:250-350 MM, CHANNELS: 200-250 MM	India	vandanaispat@gmail.com	IS2062GRA/BE250FE410W	RAIPUR.	VANDANA BUILDING, MG ROAD,					CH	0771 2535244	0771 2228355	492001	RAI	RAIPUR	Structurals: Medium Section
11910	STEEL AUTHORITY OF INDIA LTD	STLMS	Structural MediumSec	A75-100, B250-350, C200-250MM	India	kam01ban@sail-steel.com	IS2062GRA/BE250FE410W	BHILAI	ISPAT BHAWAN, FIRST FLOOR			BHILAI (M.P.)		CH			490001	BHI	BHILAI	Structurals: Medium Section
16312	JEEVAKA INDUSTRIES PVT LTD	STLMS	Structural MediumSec	ALL RANGE	India	jeevakamail@gmail.com	IS2062GRA/BE250FE410W	HYDERABAD	11-6-27/17, 1st FLOOR,			OPP .IDPL FACTORY,	BALANAGAR	TG	040 23771692	0 9440065038	500037	HYD	HYDERABAD	Structurals: Medium Section

Vendor No	Vendor Name	Mat Group	Material Group Description	GROUP DESCRIPTION	Product Group	Size Detail	COUNTRY	EMAIL	Specification	TDC	CITY1	ADDRESS1	ADDRESS2	ADDRESS3	ADDRESS4	ADDRESS5	CITY	PHONE1	PHONE2	POST CODE1	Material Group Long Description
83956	ARCOY INDUSTRIES (INDIA) PRIVATE LI	GVALP	ALUMMINIUM PAINT	Paints & Thinners	TPGW	FULL RANGE	India	factory@arcoy.com	AS PER BHEL SPEC	AS PER STANDARD	AHMEDABAD	44, 45 Phase -I, GIDC, VATVA					GJ	079-25831219	08980025366	380026	
83913	Rely Paints Pvt. Ltd.	GVALP	ALUMMINIUM PAINT	Paints & Thinners	TPGW	FULL RANGE	India		AS PER BHEL SPEC	AS PER STANDARD	Ghaziabad	Plot No. 7 & 8 Khasra No. 1323			Meerut Road Morta		UP			201003	
100935	Sheenlac Paints Limited	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	DIP COAT PAINT PR :CHEM :09-03/Rev 02
10268	SUNDARAM PAINTS PVT LTD	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	sundarampaint1@rediffmail.com	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	THANJAVUR	SOMASUNDARAM NAGAR			MEDICAL COLLEGE ROAD	THANJAVUR - 613 004.	TN	04362/40881		613004	DIP COAT PAINT PR :CHEM :09-03/Rev 02
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	chemekkn@bsnl.in	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	DIP COAT PAINT PR :CHEM :09-03/Rev 02
19552	GRAUER & WEIL (INDIA) LTD.,	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	DIP COAT PAINT PR :CHEM :09-03/Rev 02
10635	PASUMMEENA PAINT INDUSTRIES	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	pasummeena@yahoo.com	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	TIRUPPUVANAM	61D, Thiruchuli Road,			Palaiyur Thiruppuvanam,	Sivagangai,	TN	9443065268	8637604794	630611	DIP COAT PAINT PR :CHEM :09-03/Rev 02
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	westernpaints@gmail.com	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	DIP COAT PAINT PR :CHEM :09-03/Rev 02
10174	NOVAA PAINTS	PGDIP	DIP COAT PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	novapaints89@gmail.com	120011121900,120011120002,120050530000	PR:CHEM09-03/REV02D230810	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	DIP COAT PAINT PR :CHEM :09-03/Rev 02
18248	POWER LIGHT PAINTS	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	IS:13183 GRADE-I	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	PSS: H.R.Al.Paints Gr -I
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	chemekkn@bsnl.in	IS:13183 GRADE-I	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	PSS: H.R.Al.Paints Gr -I
100935	Sheenlac Paints Limited	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	IS:13183 GRADE-I	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	PSS: H.R.Al.Paints Gr -I
16739	JOTUN INDIA PVT LTD	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	IS:13183 GRADE-I	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	PSS: H.R.Al.Paints Gr -I
10930	ADVANCE PAINTS PVT LTD.,	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	ALL RANGE	India	aplch@vsnl.net	IS:13183 GRADE-I	AS PER BHEL TDC	CHENNAI	NEW NO.15(37/1),			JAYALAKSHMIPURAM,FIRST STREET	NUNGAMBAKKAM	TN	044 - 28281634		600034	PSS: H.R.Al.Paints Gr -I
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	IS:13183 GRADE-I	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	PSS: H.R.Al.Paints Gr -I
10323	STAR PAINT & OIL INDUSTRIES	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT APPLICABLE	India	sales@starpaintindia.com	IS:13183 GRADE-I	AS PER BHEL TDC	MUMBAI	CRESCENT CHAMBERS			56 TAMARIND STREET FORT	MUMBAI	MH			400023	PSS: H.R.Al.Paints Gr -I
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	IS:13183 GRADE-I	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	PSS: H.R.Al.Paints Gr -I
102785	SHIVAM HITECH STEELS PVTLTD	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	ALUMINIUM PAINTS GRADE- I	India	sales@raymaxpaints.com	IS:13183 GRADE-I	AS PER BHEL TDC	BHILAI	PLOT NO.4,4B,4D,3E/4D,			LIGHT INDUSTRIAL AREA,		CH	7354883357	7999018966	490026	PSS: H.R.Al.Paints Gr -I
10174	NOVAA PAINTS	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	IS:13183 GRADE-I	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	PSS: H.R.Al.Paints Gr -I
10051	CARBOLINE INDIA PRIVATE LTD	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	IS:13183 GRADE-I	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	PSS: H.R.Al.Paints Gr -I
19764	SYNORGANIC PAINTS PVT LTD	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT SPECIFIED	India	synovsp@gmail.com	IS:13183 GRADE-I	AS PER BHEL TDC	VISAKHAPATNAM,	102 APPIC INDUSTRIAL PARK,			PARAWADA,		AP	08924205008	9701702411	531021	PSS: H.R.Al.Paints Gr -I
10031	BERGER PAINTS INDIA LTD.,	PGPH1	PSS:HR.Al.Paint Gr-I	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	IS:13183 GRADE-I	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	PSS: H.R.Al.Paints Gr -I
18248	POWER LIGHT PAINTS	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	IS:13183 GRADE-II	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
19764	SYNORGANIC PAINTS PVT LTD	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	synovsp@gmail.com	IS:13183 GRADE-II	AS PER BHEL TDC	VISAKHAPATNAM,	102 APPIC INDUSTRIAL PARK,			PARAWADA,		AP	08924205008	9701702411	531021	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
10323	STAR PAINT & OIL INDUSTRIES	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	sales@starpaintindia.com	IS:13183 GRADE-II	AS PER BHEL TDC	MUMBAI	CRESCENT CHAMBERS			56 TAMARIND STREET FORT	MUMBAI	MH			400023	
102785	SHIVAM HITECH STEELS PVTLTD	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	ALUMINIUM PAINTS GRADE- II	India	sales@raymaxpaints.com	IS:13183 GRADE-II	AS PER BHEL TDC	BHILAI	PLOT NO.4,4B,4D,3E/4D,			LIGHT INDUSTRIAL AREA,		CH	7354883357	7999018966	490026	
10051	CARBOLINE INDIA PRIVATE LTD	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	
100935	Sheenlac Paints Limited	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	IS:13183 GRADE-II	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
10031	BERGER PAINTS INDIA LTD.,	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	chemekkn@bsnl.in	IS:13183 GRADE-II	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	
16739	JOTUN INDIA PVT LTD	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	
10174	NOVAA PAINTS	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	IS:13183 GRADE-II	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
10930	ADVANCE PAINTS PVT LTD.,	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	ALL RANGE	India	aplch@vsnl.net	IS:13183 GRADE-II	AS PER BHEL TDC	CHENNAI	NEW NO.15(37/1),			JAYALAKSHMIPURAM,FIRST STREET	NUNGAMBAKKAM	TN	044 - 28281634		600034	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPH2	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	IS:13183 GRADE-II	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
102785	SHIVAM HITECH STEELS PVTLTD	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	ALUMINIUM PAINTS GRADE- III	India	sales@raymaxpaints.com	IS:13183 GRADE-III	AS PER BHEL TDC	BHILAI	PLOT NO.4,4B,4D,3E/4D,			LIGHT INDUSTRIAL AREA,		CH	7354883357	7999018966	490026	
18248	POWER LIGHT PAINTS	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	IS:13183 GRADE-III	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
100935	Sheenlac Paints Limited	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	IS:13183 GRADE-III	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
18453	RAMDEV RESINS PVT LTD	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	info@ramdevcoatings.com	IS:13183 GRADE-III	AS PER BHEL TDC	DIST. GANDHINAGAR.	KAMALDEEP INDUSTRIAL ESTATE,			OPP. ARVIND MILL, KALOL,		GJ	02764 281509	0 93750 80920	382721	
10031	BERGER PAINTS INDIA LTD.,	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
19764	SYNORGANIC PAINTS PVT LTD	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	synovsp@gmail.com	IS:13183 GRADE-III	AS PER BHEL TDC	VISAKHAPATNAM,	102 APPIC INDUSTRIAL PARK,			PARAWADA,		AP	08924205008	9701702411	531021	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
10051	CARBOLINE INDIA PRIVATE LTD	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	
10174	NOVAA PAINTS	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	IS:13183 GRADE-III	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
18491	TITAN PAINTS & CHEMICALS LTD	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	businessdevelopment@titanpaints.in	IS:13183 GRADE-III	AS PER BHEL TDC	COIMBATORE.	305,POLLACHI MAIN ROAD,			SUNDRAPURAM,		TN	2672894	9003555628	641021	
10323	STAR PAINT & OIL INDUSTRIES	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	sales@starpaintindia.com	IS:13183 GRADE-III	AS PER BHEL TDC	MUMBAI	CRESCENT CHAMBERS			56 TAMARIND STREET FORT	MUMBAI	MH			400023	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
19552	GRAUER & WEIL (INDIA) LTD.,	PGPH3	H.R.ALUMINIUM PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	IS:13183 GRADE-III	AS PER BHEL TDC	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	
18248	POWER LIGHT PAINTS	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	chemekkn@bsnl.in	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	
10635	PASUMMEENA PAINT INDUSTRIES	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	pasummeena@yahoo.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	TIRUPPUVANAM	61D, Thiruchuli Road,			Palaiyur Thiruppuvanam,	Sivagangai,	TN	9443065268	8637604794	630611	
16739	JOTUN INDIA PVT LTD	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	
100935	Sheenlac Paints Limited	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
10031	BERGER PAINTS INDIA LTD.,	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
19552	GRAUER & WEIL (INDIA) LTD.,	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	
10930	ADVANCE PAINTS PVT LTD.,	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	aplch@vsnl.net	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI	NEW NO.15(37/1),			JAYALAKSHMIPURAM,FIRST STREET	NUNGAMBAKKAM	TN	044 - 28281634		600034	
19568	DOOALL CORPRO INDIA	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	ALL RANGE.	India	dooall.paints@gmail.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	MUMBAI	21,DAMJI SHAMJI IND.ESTATE,			L.B.SASTRIMARG,		MH	022 25781525	0 9819491313	400083	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	westernpaints@gmail.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
10268	SUNDARAM PAINTS PVT LTD	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	sundarampaint1@rediffmail.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	THANJAVUR	SOMASUNDARAM NAGAR			MEDICAL COLLEGE ROAD	THANJAVUR - 613 004.	TN	04362/40881		613004	
10174	NOVAA PAINTS	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	novapaints89@gmail.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPTC	PSS:PAINTS & THINNER	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	IS:2074,2932,104,2339 & BHEL SPEC PR:CHEM:0	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
19568	DOOALL CORPRO INDIA	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	ALL RANGE.	India	dooall.paints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	MUMBAI	21,DAMJI SHAMJI IND.ESTATE,			L.B.SASTRIMARG,		MH	022 25781525	0 9819491313	400083	
19764	SYNORGANIC PAINTS PVT LTD	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	synovsp@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	VISAKHAPATNAM,	102 APPIC INDUSTRIAL PARK,			PARAWADA,		AP	08924205008	9701702411	531021	
100935	Sheenlac Paints Limited	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
16739	JOTUN INDIA PVT LTD	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	
102785	SHIVAM HITECH STEELS PVTLTD	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	EPOXY BASED PAINTS AND THINNERS	India	sales@raymaxpaints.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	BHILAI	PLOT NO.4,4B,4D,3E/4D,			LIGHT INDUSTRIAL AREA,		CH	7354883357	7999018966	490026	
13494	GRAND POLYCOATS CO. PVT. LTD,	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	marketing@grandpolycoats.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	VADODARA	204, SIDDHARTH COMPLEX,			R C DUTT ROAD,		GJ	0265 3064200		390005	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
19552	GRAUER & WEIL (INDIA) LTD.,	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	
10930	ADVANCE PAINTS PVT LTD.,	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	ALL RANGE	India	aplch@vsnl.net	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	NEW NO.15(37/1),			JAYALAKSHMIPURAM,FIRST STREET	NUNGAMBAKKAM	TN	044 - 28281634		600034	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	EPOXY MIO & EPOXY RAL 9002	India	chemekkn@bsnl.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	
18248	POWER LIGHT PAINTS	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
10051	CARBOLINE INDIA PRIVATE LTD	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
10031	BERGER PAINTS INDIA LTD.,	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
10174	NOVAA PAINTS	PGPTE	EPOXY BASED PAINTS &	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
19552	GRAUER & WEIL (INDIA) LTD.,	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	
13494	GRAND POLYCOATS CO. PVT. LTD,	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	marketing@grandpolycoats.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	VADODARA	204, SIDDHARTH COMPLEX,			R C DUTT ROAD,		GJ	0265 3064200		390005	
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	EPOXY ZINC PHOSPHATE GRAY	India	chemekkn@bsnl.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
19568	DOOALL CORPRO INDIA	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	ALL RANGE.	India	dooall.paints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	MUMBAI	21,DAMJI SHAMJI IND.ESTATE,			L.B.SASTRIMARG,		MH	022 25781525	0 9819491313	400083	
100935	Sheenlac Paints Limited	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
10930	ADVANCE PAINTS PVT LTD.,	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	ALL RANGE	India	aplch@vsnl.net	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	NEW NO.15(37/1),			JAYALAKSHMIPURAM,FIRST STREET	NUNGAMBAKKAM	TN	044 - 28281634		600034	
16739	JOTUN INDIA PVT LTD	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
10031	BERGER PAINTS INDIA LTD.,	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
10174	NOVAA PAINTS	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
10051	CARBOLINE INDIA PRIVATE LTD	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	
102785	SHIVAM HITECH STEELS PVTLTD	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	EPOXY FINISH PAINTS AND THINNERS	India	sales@raymaxpaints.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	BHILAI	PLOT NO.4,4B,4D,3E/4D,			LIGHT INDUSTRIAL AREA,		CH	7354883357	7999018966	490026	
18248	POWER LIGHT PAINTS	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPTF	EPOXY FINISH PAINTS	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
10031	BERGER PAINTS INDIA LTD.,	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	chennaiprotecton@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	D-18,INDUSTRIAL ESTATE,			AMBATTUR,		TN	044-26357835	9282329896	600058	
10442	ASIAN PAINTS PPG PRIVATE LTD.	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	shivakumar.ch@asianpaintsppg.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	TNF ESTATE			1/103 POONAMALEE HIGH ROAD	VANAGARAM,	TN	044 24764260		602102	
19552	GRAUER & WEIL (INDIA) LTD.,	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	
10051	CARBOLINE INDIA PRIVATE LTD	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	anand@carbolineindia.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PLOT No.356 & 357			SIDCO INDUSTRIAL ESTATE	AMBATTUR,	TN	0443 002 2200	0 76674 71777	600098	
13494	GRAND POLYCOATS CO. PVT. LTD,	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	marketing@grandpolycoats.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	VADODARA	204, SIDDHARTH COMPLEX,			R C DUTT ROAD,		GJ	0265 3064200		390005	
18248	POWER LIGHT PAINTS	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	powerlightpaints@yahoo.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY.	8/17, RAHIM COMPLEX,			THANJAVUR MAIN ROAD, THUVAKUDYMALAI,		TN	0431 255 3768	0 98424 03768	620022	
10095	KANSAI NEROLAC PAINTS LIMITED,	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	rsrao@nerolac.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI	142-B, THIRUPPORUR HIGH ROAD,			PERUNGUDI - CHENNAI		TN	044-24965676		600096	
100935	Sheenlac Paints Limited	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	ramachandrank@sheenlac.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	
16739	JOTUN INDIA PVT LTD	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT APPLICABLE	India	sankar.damodaran@jotun.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENNAI.	PRINCE PLAZA, SECOND FLOOR,					TN	044 2841 9420	0 87544 80089	600008	
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	chemekkn@bsnl.in	AS PER CUSTOMER REQT	AS PER BHEL TDC	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	
10174	NOVAA PAINTS	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	novapaints89@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	
19764	SYNORGANIC PAINTS PVT LTD	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	synovsp@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	VISAKHAPATNAM,	102 APPIC INDUSTRIAL PARK,			PARAWADA,		AP	08924205008	9701702411	531021	
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	NOT SPECIFIED	India	westernpaints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	
19568	DOOALL CORPRO INDIA	PGPTP	SPECIAL PRIMER PAINT	Paints & Thinners	TPFB	ALL RANGE.	India	dooall.paints@gmail.com	AS PER CUSTOMER REQT	AS PER BHEL TDC	MUMBAI	21,DAMJI SHAMJI IND.ESTATE,			L.B.SASTRIMARG,		MH	022 25781525	0 9819491313	400083	
10174	NOVAA PAINTS	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	novapaints89@gmail.com	IS:1745	NA	TIRCHY.	7/8-C,CAUVERY NAGAR,			TIRUVERUMBUR,		TN	0431 251 1605	0 96009 07011	620013	THINNER FOR ALKYD PAINTS
10268	SUNDARAM PAINTS PVT LTD	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	sundarampaint1@rediffmail.com	IS:1745	NA	THANJAVUR	SOMASUNDARAM NAGAR			MEDICAL COLLEGE ROAD	THANJAVUR - 613 004.	TN	04362/40881		613004	THINNER FOR ALKYD PAINTS
10308	WESTERN INDIA PAINT& COLOUR CO. (P)	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	westernpaints@gmail.com	IS:1745	NA	CHENGALPET, KANCHIPURAM	PLOT 1A, MELROSAPURAM ROAD,			THIRUKATCHUYUR SENGUNDRAM LAYOUT,	CMDA INDL AREA, MARAIMALAI NAGAR,	TN	044-28156499	0 98840 88887	603204	THINNER FOR ALKYD PAINTS
10635	PASUMMEENA PAINT INDUSTRIES	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	pasummeena@yahoo.com	IS:1745	NA	TIRUPPUVANAM	61D, Thiruchuli Road,			Palaiyur Thiruppuvanam,	Sivagangai,	TN	9443065268	8637604794	630611	THINNER FOR ALKYD PAINTS
19552	GRAUER & WEIL (INDIA) LTD.,	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	dinesh.rao@growel.com	IS:1745	NA	CHENNAI	OLD NO. 145/7, NEW NO. 467,			T.H. ROAD, TONDIARPET,		TN	0-93813-54555		600081	THINNER FOR ALKYD PAINTS
19620	CHEMECOAT PAINTS INDIA PVT LTD.	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	chemekkn@bsnl.in	IS:1745	NA	TRICHY	PLOT NO.3, GF2			OLIYUR MAIN ROAD, KK NAGAR,		TN	0431-2340180	0 98424 45649	620021	THINNER FOR ALKYD PAINTS
100935	Sheenlac Paints Limited	PGTAP	THINNER FOR ALKYD PA	Paints & Thinners	TPFB	NOT APPLICABLE	India	ramachandrank@sheenlac.in	IS:1745	NA	Chennai	Block B, 76B,			GKS Estates	Ambattur Industrial Estate	TN	04443949900	9445862760	600098	THINNER FOR ALKYD PAINTS

Vendor No	Vendor Name	Mat Group	Material Group Description	GROUP DESCRIPTION	Product Group	Vendor Type	Size Detail	COUNTRY	EMAIL	Specification	TDC	CITY1	HOUSE NO.	ADDRESS1	ADDRESS2	ADDRESS3	ADDRESS4	ADDRESS5	CITY	PHONE1	PHONE2	POST CODE1	Material Group Long Description
10319	BALSARA ENGINEERING PRODUCTS LTD	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	sales@balsaragroup.com	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	THIRUVALLUR DIST,		SF - 273, KAVARAIPETTAI -			SATHYAVEDU ROAD, THAANIPOONDI POST,	GUMMIDIPOONDI TALUK,	TN	72999-67851	0 73058 80633	601202	
11690	STUD CRAFT (INDIA) PVT. LTD.,	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	studcraft@giaspn01.vsnl.net.in	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	PUNE		12 STATE BANK COLONY			SHAHU COLLEGE ROAD,	POST OFFICE PARVATHI	MH	020 - 24440106		411009	
10406	INDAID ENGINEERS PVT LTD.,	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	info@indaid.com	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	CHENNAI		C-22 AND 23,INDUSTRIAL PLOTS			MUGAPPAIR WEST,		TN	044-2624 3396	98400-17607	600058	
11017	BHARAT ENGINEERING	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	bharatengineering@hotmail.com	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	CHENNAI		NEW NO 47 OLD NO 22	MUTHUMARY CHETTY STREET				TN	044 25226837		600001	
30235	ANTONY INDUSTRIES,	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	antonyindtiruchy@gmail.com	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	TRICHY-10		GANAPATHINAGAR.			INDUSTRY COLONY (POST)		TN	2441112	9842478999	620010	
30083	NIRMAL ENGG WORKS	06WST	WELD STUD/FERRULES	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	try.neworks@gmail.com	BDG - SA105,SA182,F5,F9,F11	AS PER BHEL TDC	KATTUR		3/984A,INDHIRA GANDHI NAGAR,I st st			NORTH KATTUR.	TIRUCHIRAPALLI	TN	9789423720	9940267040	620019	
12866	BALAMURUGAN ENGG. WORKS,	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER DRAWING	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
83936	Saral Industries	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	CARBON STEEL ONLY	India	saralindustries@gmail.com	AS PER DRAWING	----------	Raebareli		L-1, L-2, Industrial Area, SIte-1, Sultanpur Road,					UP	0535-2702473	9415034473	229010	
10885	KANNAPIRAN ENGINEERING INDUSTRIES	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	keiengineers@rediffmail.com	AS PER DRAWING	----------	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	
10676	GANGAI INDUSTRIES,	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer		India	gangaiindust09@gmail.com	AS PER DRAWING	----------	KEERANUR		KALAMAVUR,			PUDUKKOTTAI DIST,KEERANUR		TN	04339-263993		622502	
15962	LOKHANDWALA ENGG CO	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER DRAWING	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
12888	VEL INDIA STRUCTRUALS	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer		India	velindiano1@yahoo.co.in	AS PER DRAWING	----------	RANIPET		PLOT NO 11, SIDCO INDUSTRIAL ESTATE	MUKUNDARAYAPURAM		MUKUNDARAYAPURAM		TN			632406	
10372	POWER PIPING CO.	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	ppctry@gmail.com	AS PER DRAWING	----------	MANDAIYUR.		319/4A2,			TRICHY-PUDUKOTTAI NH ROAD,)		TN	9841037850	9841037580	622515	
13761	JMS ENGINEERING	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jmsengineering@gmail.com	AS PER DRAWING	----------	COIMBATORE		P.B.NO.4442			12-D/1, MADUKKARAI ROAD,	SIDCO, COIMBATORE	TN	9894729934	04222672667	641021	
16179	SARASWATHI METAL FAB	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	saraswathimetalfab@gmail.com	AS PER DRAWING	----------	CHENNAI.		METTUPALAYAM MAIN ROAD,			METTUPALAYAM, AVADI,		TN	0 95660 04124		600077	
10180	ORGANISATION FOR REHABILITATION OF	80CTS	CUT TO SIZE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	orbitworkshop_trichy@yahoo.co.in	AS PER DRAWING	----------	TIRUCHIRAPALLI	NO 2/19	RACQUET COURT LANE,			NEAR CENTRAL BUS STAND		TN	0431-2460248	7806844042	620001	
10766	SREE PAVITHRA INDUSTRIES,	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	sreepavithra@spifasteners.com	BHEL SPEC	BHEL TDC	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	SS FASTENERS
15961	BHARAT ENGINEERING,	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	bharatengineering@hotmail.com	BHEL SPEC	BHEL TDC	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	SS FASTENERS
10224	SAHAS HARDWARE STORES,	80FSST	SS FASTENERS	Fasteners	TPPC	Trader	NOT SPECIFIED	India	zav@sahashardware.com	BHEL SPEC	BHEL TDC	CHENNAI		NO.12/13,PERIANNA MAISTRY STREET			NEW NO.23,POST BOX NO.2023,	CHENNAI - 600001	TN	044-25215548	044-25227636	600001	SS FASTENERS
10152	MEHTA TRADING COMPANY,	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	mehtatradingcompany@gmail.com	BHEL SPEC	BHEL TDC	MUMBAI		331 DR.NATHPAI ROAD,			OPP.TO DOCKYARD STATION	MUMBAI	MH	022-23776393	022-23711269	400010	SS FASTENERS
12866	BALAMURUGAN ENGG. WORKS,	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	BHEL SPEC	BHEL TDC	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	SS FASTENERS
15967	JK FITWELL PVT LTD.	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	jkfitwell@gmail.com	BHEL SPEC	BHEL TDC	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	SS FASTENERS
12286	M A TRADE SYNDICATE	80FSST	SS FASTENERS	Fasteners	TPPC	Trader	NOT SPECIFIED	India	matrade52@yahoo.com	BHEL SPEC	BHEL TDC	CHENNAI		45/22, IYYAPPA CHETTY STREET					TN	25227824		600001	SS FASTENERS
14907	VINAYAK BUSINESS PVT LTD.	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	sales@vinayakfasteners.com	BHEL SPEC	BHEL TDC	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	SS FASTENERS
18628	RAAJRATNA VENTURES LTD	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	dpatel@raajfasteners.com	BHEL SPEC	BHEL TDC	NAVARANGPURA, AHMEDABAD.		1402, 14TH FLOOR PHOENIX,			NR. HONEST RESTAURENT, VIJAY CROSS	ROAD TO COMMERCE SIX ROAD,	GJ			380009	SS FASTENERS
19759	FITWELL FASTENERS	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	fitwellfasteners@gmail.com	BHEL SPEC	BHEL TDC	BHOPAL		9-A, INDUSTRIAL AREA GOVINDPURA,					MP	07554280210	0 9893280210	462023	SS FASTENERS
17058	BASIL FASTENER INDUSTRIES	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	sales@basilindustries.com	BHEL SPEC	BHEL TDC	VADODARA.		13/1, GIDC MAKARPURA,					GJ	0265 644 4606	0265 263 0035	390010	SS FASTENERS
11841	J.C INDUSTRIES	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	jc_indust@yahoo.co.in	BHEL SPEC	BHEL TDC	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	SS FASTENERS
100358	PROCYON TECHNOLOGY	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	mjpatel@procyontechnology.com	BHEL SPEC	BHEL TDC	KADI		SURVEY NO -216,			AHMEDABAD MEHSANA HIGHWAY,		GJ	9825221301		382705	SS FASTENERS
15809	FAST TECH ENGINEERS PVT LTD.	80FSST	SS FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	ftepl@live.in	BHEL SPEC	BHEL TDC	THANE.		29, TARA SINGH COMPOUND,			DAHISAR CHECK NAKA,	DAHISAR(E), PO. MIRA,	MH	022 28975582	0 98207 80076	401104	SS FASTENERS
12866	BALAMURUGAN ENGG. WORKS,	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M64	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
15809	FAST TECH ENGINEERS PVT LTD.	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M100	India	ftepl@live.in	AS PER BHEL SPECN	----------	THANE.		29, TARA SINGH COMPOUND,			DAHISAR CHECK NAKA,	DAHISAR(E), PO. MIRA,	MH	022 28975582	0 98207 80076	401104	
11841	J.C INDUSTRIES	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M 32	India	jc_indust@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
10152	MEHTA TRADING COMPANY,	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M48	India	mehtatradingcompany@gmail.com	AS PER BHEL SPECN	----------	MUMBAI		331 DR.NATHPAI ROAD,			OPP.TO DOCKYARD STATION	MUMBAI	MH	022-23776393	022-23711269	400010	
10224	SAHAS HARDWARE STORES,	80FST	FASTENERS	Fasteners	TPPC	Trader	UPTO M150	India	zav@sahashardware.com	AS PER BHEL SPECN	----------	CHENNAI		NO.12/13,PERIANNA MAISTRY STREET			NEW NO.23,POST BOX NO.2023,	CHENNAI - 600001	TN	044-25215548	044-25227636	600001	
15967	JK FITWELL PVT LTD.	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M64	India	jkfitwell@gmail.com	AS PER BHEL SPECN	----------	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	
10766	SREE PAVITHRA INDUSTRIES,	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M110	India	sreepavithra@spifasteners.com	AS PER BHEL SPECN	----------	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	
15961	BHARAT ENGINEERING,	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M100	India	bharatengineering@hotmail.com	AS PER BHEL SPECN	----------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	
100358	PROCYON TECHNOLOGY	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	mjpatel@procyontechnology.com	AS PER BHEL SPECN	----------	KADI		SURVEY NO -216,			AHMEDABAD MEHSANA HIGHWAY,		GJ	9825221301		382705	
100263	IMPERIAL BOLTS AND FASTENERS	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	imperialbolt.ibf@gmail.com	AS PER BHEL SPECN	----------	LUDHIANA		522/2,BACK SIDE SWANI MOTOR,			INDL AREAS-C,GT ROAD,GISPURA,		PB	8497800001	0 9855488559	141003	
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M56	India	avcautoparts@dataone.in	AS PER BHEL SPECN	----------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	
18878	HARYANA FASTENERS	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	haryanafasteners@gmail.com	AS PER BHEL SPECN	----------	LUDHIANA.		166, KAILASH NAGAR,					PB	0161 267 3904	0 98888 80078	141010	
12286	M A TRADE SYNDICATE	80FST	FASTENERS	Fasteners	TPPC	Trader	UPTO M 56	India	matrade52@yahoo.com	AS PER BHEL SPECN	----------	CHENNAI		45/22, IYYAPPA CHETTY STREET					TN	25227824		600001	
18934	KWALITY FORGE	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M24	India	info@kwalityforge.com	AS PER BHEL SPECN	----------	LUDHIANA.		VILL- KANGANWAL,			P.O- JUGIANA, TEXLA PLASTIC ROAD,		PB	01612534426	9814529555	141120	
14907	VINAYAK BUSINESS PVT LTD.	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M100	India	sales@vinayakfasteners.com	AS PER BHEL SPECN	----------	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	
101800	NEXO INFRA	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	nexoinfra@gmail.com	AS PER BHEL SPECN	----------	LUDHIANA		584-585, OVERLOCK ROAD,					PB	0161-4065585	8437744300	141003	
18551	VARDHMAN INDUTRIAL FASTENERS	80FST	FASTENERS	Fasteners	TPPC	Manufacturer	UPTO M110	India	vardhmanindlfasteners@gmail.com	AS PER BHEL SPECN	----------	DELHI		DSIDC Shed No 17,			NEW WAZIRPUR INDUSTRIAL COMPLEX,		DL	011 27372296	011 27376676	110052	
10372	POWER PIPING CO.	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	ppctry@gmail.com	AS PER BHEL SPECN	----------	MANDAIYUR.		319/4A2,			TRICHY-PUDUKOTTAI NH ROAD,)		TN	9841037850	9841037580	622515	
30378	REGIONAL ENGG. WORKS	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	regionalengineeringworks@gmail.com	AS PER BHEL SPECN	----------	Tiruchirappalli		EC-1&2, Deve. Plots Estate	Thuvakkudi		TIRUCHIRAPALLI		TN	0431-2500187	2441767	620015	
10050	CAUVERY ENGINEERING WORKS	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer		India	cauveryengg83@gmail.com	AS PER BHEL SPECN	----------	PUDUKKOTTAI		SF NO: 559/4A, MELAPUDUVAYAL ROAD			KALAMAVUR, KEERANUR		TN	04339-262288	9842037363	622502	
15962	LOKHANDWALA ENGG CO	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
10885	KANNAPIRAN ENGINEERING INDUSTRIES	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	keiengineers@rediffmail.com	AS PER BHEL SPECN	----------	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	
83936	Saral Industries	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	CARBON STEEL ONLY	India	saralindustries@gmail.com	AS PER BHEL SPECN	----------	Raebareli		L-1, L-2, Industrial Area, SIte-1, Sultanpur Road,					UP	0535-2702473	9415034473	229010	
10676	GANGAI INDUSTRIES,	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer		India	gangaiindust09@gmail.com	AS PER BHEL SPECN	----------	KEERANUR		KALAMAVUR,			PUDUKKOTTAI DIST,KEERANUR		TN	04339-263993		622502	
11966	MOD FORGE PVT.LIMITED	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	chennai@mod-forge.com	AS PER BHEL SPECN	----------	CHENNAI		103 & 104 SIDCO AIEMA TOWER			1ST FLOOR	AMBATTUR INDL.ESTATE	TN	044-26253236		600058	
18456	B.N.INDUSTRIES,	80LCL	LUGS AND CLAMPS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	bnindustries3738@gmail.com	AS PER BHEL SPECN	----------	CHENNAI		63/A,VYASARPADI CO-OP INDUSTRIAL ESTATE,			ERUKKANCHERY HIGH ROAD,		TN				
11841	J.C INDUSTRIES	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
17059	FRONTIER TOOLINGS	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer	ALL RANGE	India	frontiertoolings@yahoo.com	AS PER BHEL SPECN	----------	KANPUR.		63-B, CO-OPERATIVE SOCIETY,			DADA NAGAR,		UP	0512-2218422		208022	
15962	LOKHANDWALA ENGG CO	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
11966	MOD FORGE PVT.LIMITED	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	chennai@mod-forge.com	AS PER BHEL SPECN	----------	CHENNAI		103 & 104 SIDCO AIEMA TOWER			1ST FLOOR	AMBATTUR INDL.ESTATE	TN	044-26253236		600058	
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer	ALL RANGE	India	avcautoparts@dataone.in	AS PER BHEL SPECN	----------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	
15970	VETRIVEL AUTO COMPONENTS	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer	ALL RANGE	India	vetrivelautocomp@gmail.com	AS PER BHEL SPECN	----------	CHENNAI		65, GALAXY ROAD,			PONNIAMMAN NAGAR, AYANAMBAKKAM,		TN	04442031813	9003265555	600095	
12866	BALAMURUGAN ENGG. WORKS,	80LOP	LOAD PIN	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
10885	KANNAPIRAN ENGINEERING INDUSTRIES	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	keiengineers@rediffmail.com	AS PER BHEL SPECN	----------	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	Rod type pipe clamps-CS & AS
17456	SPRING SUPPORTS MANUFACTURING	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	supports@springsupports.co.in	AS PER BHEL SPECN	----------	HOWRAH		18G.T.ROAD (SOUTH),4TH FLOOR,					WB	03326412233	0 98360 30966	711101	Rod type pipe clamps-CS & AS
17459	AAA SUPPORTS PVT LTD.,	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	amit@aaasupports.com	AS PER BHEL SPECN	----------	VADODARA		PLOT NO 189, GIDC,			POR-RAMANGAMDI,		GJ	0265 2830444	0 93762 19553	391243	Rod type pipe clamps-CS & AS
14914	HASAN TECHNO INDUSTRY PVT LTD.	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	AS PER BHEL SPECN	----------	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	Rod type pipe clamps-CS & AS
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	avcautoparts@dataone.in	AS PER BHEL SPECN	----------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	Rod type pipe clamps-CS & AS
100555	PROCYON TECHNO INDUSTRY	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ROD DIA UPTO 20 MM	India	sales@procyontechno.com	AS PER BHEL SPECN	----------	DIST: MAHESANA		SUR NO: 808/15, BLOCK NO: 09,			B/H GAYATRI DAIRY,	VILL: INDRAD, TAL: KADI,	GJ	9638805669	9909468081	382715	Rod type pipe clamps-CS & AS
13761	JMS ENGINEERING	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jmsengineering@gmail.com	AS PER BHEL SPECN	----------	COIMBATORE		P.B.NO.4442			12-D/1, MADUKKARAI ROAD,	SIDCO, COIMBATORE	TN	9894729934	04222672667	641021	Rod type pipe clamps-CS & AS
11841	J.C INDUSTRIES	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	Rod type pipe clamps-CS & AS
10180	ORGANISATION FOR REHABILITATION OF	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	orbitworkshop_trichy@yahoo.co.in	AS PER BHEL SPECN	----------	TIRUCHIRAPALLI	NO 2/19	RACQUET COURT LANE,			NEAR CENTRAL BUS STAND		TN	0431-2460248	7806844042	620001	Rod type pipe clamps-CS & AS
11516	THOMSON ENGG WORKS	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer		India	thomson_engg@yahoo.in	AS PER BHEL SPECN	----------	CHENNAI	NO.112B,	SIDCO INDUSTRIAL ESTATE,					TN	044 2625 0628		600098	Rod type pipe clamps-CS & AS
15961	BHARAT ENGINEERING,	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer		India	bharatengineering@hotmail.com	AS PER BHEL SPECN	----------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	Rod type pipe clamps-CS & AS
12866	BALAMURUGAN ENGG. WORKS,	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	Rod type pipe clamps-CS & AS
15967	JK FITWELL PVT LTD.	80RCL	Rod type pipe clamps	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jkfitwell@gmail.com	AS PER BHEL SPECN	----------	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	Rod type pipe clamps-CS & AS
11841	J.C INDUSTRIES	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
10885	KANNAPIRAN ENGINEERING INDUSTRIES	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	ALL RANGE.	India	keiengineers@rediffmail.com	AS PER SPECN	----------	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	
14914	HASAN TECHNO INDUSTRY PVT LTD.	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	AS PER SPECN	----------	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	
15970	VETRIVEL AUTO COMPONENTS	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	ALL RANGE	India	vetrivelautocomp@gmail.com	AS PER SPECN	----------	CHENNAI		65, GALAXY ROAD,			PONNIAMMAN NAGAR, AYANAMBAKKAM,		TN	04442031813	9003265555	600095	
15962	LOKHANDWALA ENGG CO	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
12866	BALAMURUGAN ENGG. WORKS,	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
16286	KEMS FORGINGS LIMITED	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	ALL RANGE	India	ramanathan@kemsltd.com	AS PER SPECN	----------	BANGALORE.		2ND FLOOR, DONNA BASS TOWER,			100 RAILWAY PARALLEL ROAD,	KUMARAPARK WEST,	KA	080 23082600	0 98865 67970	560020	
13761	JMS ENGINEERING	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jmsengineering@gmail.com	AS PER SPECN	----------	COIMBATORE		P.B.NO.4442			12-D/1, MADUKKARAI ROAD,	SIDCO, COIMBATORE	TN	9894729934	04222672667	641021	
10258	STEEL & INDUSTRIAL FORGINGS LTD	80ROC	ROD COUPLING	Fasteners	TPPC	Manufacturer	SINGLE PIECE RESTRICTED TO 850 KG	India	sifl.gm.mktg@gmail.com	AS PER SPECN	----------	TRICHUR		ATHANI, MULAMGUNNATHUKAVU,			TRICHUR	KERALA STATE.	KL	0487-201751-2...		680771	
12116	BUMPER INDIA PVT LTD	80ROE	ROD END	Fasteners	TPPC	Manufacturer		India	mayfield@bearing.com	AS PER SPEC	AS PER SPEC	MUMBAI		NAVARATNA APARTMENTS			ASARA COLONY ROAD,MAY FIELD HOUSE,	BORIVALLY (EAST)	MH	022 28704561		400066	
17780	VETRIVEL FORGINGS,	80ROE	ROD END	Fasteners	TPPC	Manufacturer	ALL RANGE	India	vetrivelforgings@gmail.com	AS PER SPEC	AS PER SPEC	TIRUVALLUR		DP G-48/49,SIDCO INDUSTRIAL ESTATE,			KAKKALUR,		TN	09245608758		602003	
11966	MOD FORGE PVT.LIMITED	80ROE	ROD END	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	chennai@mod-forge.com	AS PER SPEC	AS PER SPEC	CHENNAI		103 & 104 SIDCO AIEMA TOWER			1ST FLOOR	AMBATTUR INDL.ESTATE	TN	044-26253236		600058	
10258	STEEL & INDUSTRIAL FORGINGS LTD	80ROE	ROD END	Fasteners	TPPC	Manufacturer	SINGLE PIECE RESTRICTED TO 850 KG	India	sifl.gm.mktg@gmail.com	AS PER SPEC	AS PER SPEC	TRICHUR		ATHANI, MULAMGUNNATHUKAVU,			TRICHUR	KERALA STATE.	KL	0487-201751-2...		680771	
14914	HASAN TECHNO INDUSTRY PVT LTD.	80ROE	ROD END	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	AS PER SPEC	AS PER SPEC	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	
10585	THILLAI ENGINEERING WORKS,	80ROE	ROD END	Fasteners	TPPC	Manufacturer		India	wm@thillaiengg.in	AS PER SPEC	AS PER SPEC	CHENNAI		161., SIDCO INDUSTRIAL ESTATE			AMBATTUR		TN	044-26250271		600098	
15962	LOKHANDWALA ENGG CO	80SPR	SPACER RING	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
15970	VETRIVEL AUTO COMPONENTS	80SPR	SPACER RING	Fasteners	TPPC	Manufacturer	ALL RANGE	India	vetrivelautocomp@gmail.com	AS PER BHEL SPECN	----------	CHENNAI		65, GALAXY ROAD,			PONNIAMMAN NAGAR, AYANAMBAKKAM,		TN	04442031813	9003265555	600095	
12866	BALAMURUGAN ENGG. WORKS,	80SPR	SPACER RING	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
11841	J.C INDUSTRIES	80SPR	SPACER RING	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
10676	GANGAI INDUSTRIES,	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer		India	gangaiindust09@gmail.com	AS PER BHEL SPECN	----------	KEERANUR		KALAMAVUR,			PUDUKKOTTAI DIST,KEERANUR		TN	04339-263993		622502	Tube Clips-CS & AS
15962	LOKHANDWALA ENGG CO	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	Tube Clips-CS & AS
15961	BHARAT ENGINEERING,	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer		India	bharatengineering@hotmail.com	AS PER BHEL SPECN	----------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	Tube Clips-CS & AS
10180	ORGANISATION FOR REHABILITATION OF	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	orbitworkshop_trichy@yahoo.co.in	AS PER BHEL SPECN	----------	TIRUCHIRAPALLI	NO 2/19	RACQUET COURT LANE,			NEAR CENTRAL BUS STAND		TN	0431-2460248	7806844042	620001	Tube Clips-CS & AS
14914	HASAN TECHNO INDUSTRY PVT LTD.	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	AS PER BHEL SPECN	----------	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	Tube Clips-CS & AS
12866	BALAMURUGAN ENGG. WORKS,	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	Tube Clips-CS & AS
10885	KANNAPIRAN ENGINEERING INDUSTRIES	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	keiengineers@rediffmail.com	AS PER BHEL SPECN	----------	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	Tube Clips-CS & AS
83936	Saral Industries	80TCL	Tube Clips-CS & AS	Fasteners	TPPC	Manufacturer	CARBON STEEL ONLY	India	saralindustries@gmail.com	AS PER BHEL SPECN	----------	Raebareli		L-1, L-2, Industrial Area, SIte-1, Sultanpur Road,					UP	0535-2702473	9415034473	229010	Tube Clips-CS & AS
12866	BALAMURUGAN ENGG. WORKS,	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER DRAWING	------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
10766	SREE PAVITHRA INDUSTRIES,	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	ALL RANGE	India	sreepavithra@spifasteners.com	AS PER DRAWING	------	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	
15962	LOKHANDWALA ENGG CO	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER DRAWING	------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
11516	THOMSON ENGG WORKS	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer		India	thomson_engg@yahoo.in	AS PER DRAWING	------	CHENNAI	NO.112B,	SIDCO INDUSTRIAL ESTATE,					TN	044 2625 0628		600098	
11841	J.C INDUSTRIES	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER DRAWING	------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
30986	HAJI IRON &STEEL WORKS	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	ALL RANGE	India	hajiiron@yahoo.com	AS PER DRAWING	------	CHENNAI		NO-25 KUMBAL AMMAN KOIL STREET			THONDAIYARPET		TN	044-2595 4953		600081	
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	ALL RANGE	India	avcautoparts@dataone.in	AS PER DRAWING	------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	
14907	VINAYAK BUSINESS PVT LTD.	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	ALL RANGE	India	sales@vinayakfasteners.com	AS PER DRAWING	------	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	
15961	BHARAT ENGINEERING,	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer		India	bharatengineering@hotmail.com	AS PER DRAWING	------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	
15970	VETRIVEL AUTO COMPONENTS	80TIR	TIE ROD	Fasteners	TPPC	Manufacturer	ALL RANGE	India	vetrivelautocomp@gmail.com	AS PER DRAWING	------	CHENNAI		65, GALAXY ROAD,			PONNIAMMAN NAGAR, AYANAMBAKKAM,		TN	04442031813	9003265555	600095	
15962	LOKHANDWALA ENGG CO	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer		India	lec52@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
15961	BHARAT ENGINEERING,	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer		India	bharatengineering@hotmail.com	AS PER BHEL SPECN	----------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	
18551	VARDHMAN INDUTRIAL FASTENERS	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	vardhmanindlfasteners@gmail.com	AS PER BHEL SPECN	----------	DELHI		DSIDC Shed No 17,			NEW WAZIRPUR INDUSTRIAL COMPLEX,		DL	011 27372296	011 27376676	110052	
12866	BALAMURUGAN ENGG. WORKS,	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	envron@yahoo.com	AS PER BHEL SPECN	----------	METTUKUPPAM, CHENNAI.		131/1B8, MUSTAFA STREET,			RAJARAJAN NAGAR, VANAGARAM,		TN	0 97911 05659	0 98847 77329	600095	
102175	BHARAT INDUSTRIAL SUPPLIER	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	3 MM TO 100 MM	India	info@bharatindustrialsupplier.com	AS PER BHEL SPECN	----------	CHENNAI		4, PERIYANNA MAISTRY STREET,			BROADWAY,		TN	9791184094	04425221166	600001	
30986	HAJI IRON &STEEL WORKS	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	hajiiron@yahoo.com	AS PER BHEL SPECN	----------	CHENNAI		NO-25 KUMBAL AMMAN KOIL STREET			THONDAIYARPET		TN	044-2595 4953		600081	
11841	J.C INDUSTRIES	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer		India	jc_indust@yahoo.co.in	AS PER BHEL SPECN	----------	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
14487	INDUSTRIAL ENGINEERING CORPORATION	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer		India	iecbombay@gmail.com	AS PER BHEL SPECN	----------	THANE		HARSH BUILDING, GALA NO. 1 TO 4,			PUJA INDL. COMPLEX, WALIV PHATA,	SATIVALI ROAD, VASAI(E), MUMBAI	MH	0250 645 0508	0 98673 81118	401208	
19759	FITWELL FASTENERS	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	fitwellfasteners@gmail.com	AS PER BHEL SPECN	----------	BHOPAL		9-A, INDUSTRIAL AREA GOVINDPURA,					MP	07554280210	0 9893280210	462023	
18878	HARYANA FASTENERS	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	haryanafasteners@gmail.com	AS PER BHEL SPECN	----------	LUDHIANA.		166, KAILASH NAGAR,					PB	0161 267 3904	0 98888 80078	141010	
100358	PROCYON TECHNOLOGY	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	mjpatel@procyontechnology.com	AS PER BHEL SPECN	----------	KADI		SURVEY NO -216,			AHMEDABAD MEHSANA HIGHWAY,		GJ	9825221301		382705	
10766	SREE PAVITHRA INDUSTRIES,	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer		India	sreepavithra@spifasteners.com	AS PER BHEL SPECN	----------	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	
14907	VINAYAK BUSINESS PVT LTD.	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	sales@vinayakfasteners.com	AS PER BHEL SPECN	----------	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	avcautoparts@dataone.in	AS PER BHEL SPECN	----------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	
15809	FAST TECH ENGINEERS PVT LTD.	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	ftepl@live.in	AS PER BHEL SPECN	----------	THANE.		29, TARA SINGH COMPOUND,			DAHISAR CHECK NAKA,	DAHISAR(E), PO. MIRA,	MH	022 28975582	0 98207 80076	401104	
15967	JK FITWELL PVT LTD.	FAB07	B7 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jkfitwell@gmail.com	AS PER BHEL SPECN	----------	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	
100358	PROCYON TECHNOLOGY	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	mjpatel@procyontechnology.com	AS PER BHEL SPECN	----------	KADI		SURVEY NO -216,			AHMEDABAD MEHSANA HIGHWAY,		GJ	9825221301		382705	AIR ASSISTED SAFETY VALVE
15809	FAST TECH ENGINEERS PVT LTD.	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	ftepl@live.in	AS PER BHEL SPECN	----------	THANE.		29, TARA SINGH COMPOUND,			DAHISAR CHECK NAKA,	DAHISAR(E), PO. MIRA,	MH	022 28975582	0 98207 80076	401104	AIR ASSISTED SAFETY VALVE
18878	HARYANA FASTENERS	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	haryanafasteners@gmail.com	AS PER BHEL SPECN	----------	LUDHIANA.		166, KAILASH NAGAR,					PB	0161 267 3904	0 98888 80078	141010	AIR ASSISTED SAFETY VALVE
31312	SRI VENGATACHALAM ENGG WORKS(P)LTD	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	avcautoparts@dataone.in	AS PER BHEL SPECN	----------	SALEM		14, KALARAMPATTI MAIN ROAD					TN	9443236303	4272261704	636015	AIR ASSISTED SAFETY VALVE
19759	FITWELL FASTENERS	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	fitwellfasteners@gmail.com	AS PER BHEL SPECN	----------	BHOPAL		9-A, INDUSTRIAL AREA GOVINDPURA,					MP	07554280210	0 9893280210	462023	AIR ASSISTED SAFETY VALVE
15967	JK FITWELL PVT LTD.	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jkfitwell@gmail.com	AS PER BHEL SPECN	----------	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	AIR ASSISTED SAFETY VALVE
16025	MEGA ENGINEERING PVT LTD.,	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer		India	info@megaengg.com	AS PER BHEL SPECN	----------	NAVI MUMBAI		PLOT NO: R 840,			MIDC TTC INDUSTRIAL AREA	RABALE,	MH	022-27600440		400701	AIR ASSISTED SAFETY VALVE
10364	PRESIDENT ENGG.WORKS,	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer		India	marketing@presidentengg.com	AS PER BHEL SPECN	----------	SILVASSA		SUR NO. 208/P			NEAR DADRA CHECK POST,	VILL : DADRA,	DN	022-28398409-...		396193	AIR ASSISTED SAFETY VALVE
15961	BHARAT ENGINEERING,	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer		India	bharatengineering@hotmail.com	AS PER BHEL SPECN	----------	CHENNAI		(Old NO 22), 47,MUTHUMARI CHETTY STREET			MANNADI		TN	044 25226837		600001	AIR ASSISTED SAFETY VALVE
30986	HAJI IRON &STEEL WORKS	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	NOT SPECIFIED	India	hajiiron@yahoo.com	AS PER BHEL SPECN	----------	CHENNAI		NO-25 KUMBAL AMMAN KOIL STREET			THONDAIYARPET		TN	044-2595 4953		600081	AIR ASSISTED SAFETY VALVE
14907	VINAYAK BUSINESS PVT LTD.	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	sales@vinayakfasteners.com	AS PER BHEL SPECN	----------	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	AIR ASSISTED SAFETY VALVE
10766	SREE PAVITHRA INDUSTRIES,	FAB16	B16 FASTENERS	Fasteners	TPPC	Manufacturer		India	sreepavithra@spifasteners.com	AS PER BHEL SPECN	----------	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	AIR ASSISTED SAFETY VALVE
83492	Pooja Forge Limited	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	gcdas@poojaforgeltd.com	AS PER BHEL SPEC	AS PER BHEL TDC	Faridabad		14/4 mathura road					HR	9971093519	01294046809	121003	
17859	NAMDHARI INDUSTRIAL TRADERS PVT LTD	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	namdhari_ind_traders@yahoo.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA.		VILL: LATTON DANA,			CHANDIGARH ROAD,		PB	0161 283 3157	0 87288 00938	141113	
83521	J.J Fastner (India)	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	jjfastnerindia@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	Opp Bank Of India	St No. 1	364 Street No. 1, Village Ramgarh					PB	9501030799		141123	
84310	HARYANA FASTENERS	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	haryanafasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		166, KAILASH COLONEY, NEAR OSWAL HOSPITAL, SHERPUR,					PB	9814090317		141010	
84794	M/S PIONEER NUTS & BOLTS PVT LTD	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	pioneer@tuffbolt.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		13 -B Friends Industrial Estate FOCAL POINT,LUDHIANA,141010					PB	01614632180	8146626922	141010	
15463	BIMCO ENGINEERING ENTERPRISE.	GHFST	HSFG FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	bmgupta@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA.		40, RAMAN ENCLAVE EXTN,			RISHI NAGAR,		PB	0161 2300 479	0 94172 34191	141001	
84310	HARYANA FASTENERS	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	haryanafasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		166, KAILASH COLONEY, NEAR OSWAL HOSPITAL, SHERPUR,					PB	9814090317		141010	
10234	SANVIR INDUSTRIES	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer		India	sanvirindustries@yahoo.co.in	AS PER BHEL SPEC	AS PER BHEL TDC	CHENNAI		15-B,KADERI AMBAL NAGAR,			JAIN NAGAR EXTENSION,	HASTINAPURAM, CHENNAI	TN	044 22655536	9382329696	600064	
80532	UDEHRA FASTNERS LIMITED	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer		India	anoopkumar@udehra.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		F1, PHASE-VII, FOCAL POINT					PB	0161-26774572...	9501023702	141010	
84960	FITWELL FASTENERS	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	fitwellfasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	BHOPAL		9-A INDUSTRIAL AREA GOVINDPURA					MP	7554280210	9893280210	462023	
11505	PRECISION AUTO ENGINEERS	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer		India	exports@precision fastners.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		934, NIRANKARI ST. NO. 7	OPP. STATE BANK OF INDIA,	MILLER GANJ	OPP. STATE BANK OF INDIA,	MILLER GANJ	PB	0161 - 532448		141003	
18551	VARDHMAN INDUTRIAL FASTENERS	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	vardhmanindlfasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	DELHI		DSIDC Shed No 17,			NEW WAZIRPUR INDUSTRIAL COMPLEX,		DL	011 27372296	011 27376676	110052	
100263	IMPERIAL BOLTS AND FASTENERS	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer	AS PER REQUIREMENT	India	imperialbolt.ibf@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		522/2,BACK SIDE SWANI MOTOR,			INDL AREAS-C,GT ROAD,GISPURA,		PB	8497800001	0 9855488559	141003	
83911	Udehra Mechanical Works	GVEYE	EYE BOLTS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	udehragroup@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		D 88 Focal Point Phase V					PB			141010	
80532	UDEHRA FASTNERS LIMITED	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FASTENERS, EYEBOLTS	India	anoopkumar@udehra.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		F1, PHASE-VII, FOCAL POINT					PB	0161-26774572...	9501023702	141010	
83770	S R Forgings	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	suneer.kapoor@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		E 615 Phase VII Focal Point					PB	01612220669	09876335042		
83911	Udehra Mechanical Works	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	udehragroup@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		D 88 Focal Point Phase V					PB			141010	
10234	SANVIR INDUSTRIES	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer		India	sanvirindustries@yahoo.co.in	AS PER BHEL SPEC	AS PER BHEL TDC	CHENNAI		15-B,KADERI AMBAL NAGAR,			JAIN NAGAR EXTENSION,	HASTINAPURAM, CHENNAI	TN	044 22655536	9382329696	600064	
100263	IMPERIAL BOLTS AND FASTENERS	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	AS PER REQUIREMENT	India	imperialbolt.ibf@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		522/2,BACK SIDE SWANI MOTOR,			INDL AREAS-C,GT ROAD,GISPURA,		PB	8497800001	0 9855488559	141003	
13411	KAY PEE INDUSTRIES	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	M12 TO M72	India	kaypee@kaypeeindustries.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		D-108, PHASE-V			FOCAL POINT		PB	0161 4645772	7508777931	141010	
84310	HARYANA FASTENERS	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	haryanafasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		166, KAILASH COLONEY, NEAR OSWAL HOSPITAL, SHERPUR,					PB	9814090317		141010	
18551	VARDHMAN INDUTRIAL FASTENERS	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	vardhmanindlfasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	DELHI		DSIDC Shed No 17,			NEW WAZIRPUR INDUSTRIAL COMPLEX,		DL	011 27372296	011 27376676	110052	
84440	RBM INDUSTRIES	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	sales@rbmindustries.in	AS PER BHEL SPEC	AS PER BHEL TDC	FARIDABAD		23/7 MATHURA ROAD SEC. - 58					HR	9711300921		121004	
83521	J.J Fastner (India)	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	jjfastnerindia@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	Opp Bank Of India	St No. 1	364 Street No. 1, Village Ramgarh					PB	9501030799		141123	
15463	BIMCO ENGINEERING ENTERPRISE.	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	NOT SPECIFIED	India	bmgupta@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA.		40, RAMAN ENCLAVE EXTN,			RISHI NAGAR,		PB	0161 2300 479	0 94172 34191	141001	

11505	PRECISION AUTO ENGINEERS	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FASTENERS, EYEBOLTS	India	exports@precision fastners.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		934, NIRANKARI ST. NO. 7	OPP. STATE BANK OF INDIA,	MILLER GANJ	OPP. STATE BANK OF INDIA,	MILLER GANJ	PB	0161 - 532448		141003	
80352	Pankaj International	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer		India	sales@pankajinternational.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		B-40/III, Phase-V, Focal Point					PB	0161-2677676 ...		141010	
15517	MORNING STAR INDUSTRIES.,	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer		India	mstar@satyam.net.in	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		89-90,MOHINDRA ENCLAVE,			NEAR MOTI NAGAR,	OPP.YORK EXPORTS.	PB	0161 2221555	0 98729 70349	141010	
10364	PRESIDENT ENGG.WORKS,	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer		India	marketing@presidentengg.com	AS PER BHEL SPEC	AS PER BHEL TDC	SILVASSA		SUR NO. 208/P			NEAR DADRA CHECK POST,	VILL : DADRA,	DN	022-28398409-...		396193	
84794	M/S PIONEER NUTS & BOLTS PVT LTD	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	M12 TO M100	India	pioneer@tuffbolt.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		13 -B Friends Industrial Estate FOCAL POINT,LUDHIANA,141010					PB	01614632180	8146626922	141010	
84860	KWALITY FORGE	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	M4 - M100 & LONG 350MM	India	sameer.alam@kwalityforge.com	AS PER BHEL SPEC	AS PER BHEL TDC	LUDHIANA		VILL- KANGANWAL,			P.O- JUGIANA, TEXLA PLASTIC ROAD,		PB	01612534426	9814529555	141120	
84686	Hem Industries	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	M8 DIAMETER TO M100 DIAMETER	India	hemdoshi@hemindustries.net	AS PER BHEL SPEC	AS PER BHEL TDC	Dadra, Silvassa. UT Dadra & Nagar Haveli		Plot No 262-1 & 2, Shital Indutrial Area, Demni Road					DN	0260 2668023	9376033882	396193	
84960	FITWELL FASTENERS	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	FULL RANGE	India	fitwellfasteners@gmail.com	AS PER BHEL SPEC	AS PER BHEL TDC	BHOPAL		9-A INDUSTRIAL AREA GOVINDPURA					MP	7554280210	9893280210	462023	
10224	SAHAS HARDWARE STORES,	GVFST	FASTENERS	Fasteners	TPGW	Trader	NOT SPECIFIED	India	zav@sahashardware.com	AS PER BHEL SPEC	AS PER BHEL TDC	CHENNAI		NO.12/13,PERIANNA MAISTRY STREET			NEW NO.23,POST BOX NO.2023,	CHENNAI - 600001	TN	044-25215548	044-25227636	600001	
83460	Souvenir International	GVFST	FASTENERS	Fasteners	TPGW	Manufacturer	ALL RANGE.	India	ravish@souvenirinternational.com	AS PER BHEL SPEC	AS PER BHEL TDC	Ludhiana		29/147-148 Giaspura Road, Opposite P.S.E.B					PB	0161-2542528	9914923324		
102246	PRECITECH FORGINGS AND ENGINEERING	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	FORGING CAPACITY OF SINGLE PIECE LIMITED TO 25 KG & OD 250 MM	India	md@precitechforgings.com	AS PER BHEL SPECN	---------	CHENNAI		DP 112/4 (SP), 2ND MAIN ROAD,			AMBATTUR INDUSTRIAL ESTATE,		TN			600058	Machined Forging
10100	HARIHAR ALLOYS (P) LTD.	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 350 KG (CLOSED DIE)	India	commercial@hariharalloy.com	AS PER BHEL SPECN	---------	TRICHY.		1/43, RACE COURSE ROAD,			KAJAMALAI,		TN	0431 242 2884		620023	Machined Forging
16286	KEMS FORGINGS LIMITED	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 80 KG (CLOSED DIE)	India	ramanathan@kemsltd.com	AS PER BHEL SPECN	---------	BANGALORE.		2ND FLOOR, DONNA BASS TOWER,			100 RAILWAY PARALLEL ROAD,	KUMARAPARK WEST,	KA	080 23082600	0 98865 67970	560020	Machined Forging
11966	MOD FORGE PVT.LIMITED	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 38 KG (CLOSED DIE)	India	chennai@mod-forge.com	AS PER BHEL SPECN	---------	CHENNAI		103 & 104 SIDCO AIEMA TOWER			1ST FLOOR	AMBATTUR INDL.ESTATE	TN	044-26253236		600058	Machined Forging
10766	SREE PAVITHRA INDUSTRIES,	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 10 KG (CLOSED DIE)	India	sreepavithra@spifasteners.com	AS PER BHEL SPECN	---------	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	Machined Forging
19226	ARM & HAMMER FORGINGS PVT.LTD.	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 150 KG	India	manocha@ahfpl.com	AS PER BHEL SPECN	---------	FARIDABAD		PLOT NO.287,SECTOR-58,BALLABHGARH					HR	0 9311111563		121004	Machined Forging
17780	VETRIVEL FORGINGS,	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 50 KG (CLOSED DIE)	India	vetrivelforgings@gmail.com	AS PER BHEL SPECN	---------	TIRUVALLUR		DP G-48/49,SIDCO INDUSTRIAL ESTATE,			KAKKALUR,		TN	09245608758		602003	Machined Forging
10258	STEEL & INDUSTRIAL FORGINGS LTD	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	SINGLE PIECE RESTRICTED TO 850 KG	India	sifl.gm.mktg@gmail.com	AS PER BHEL SPECN	---------	TRICHUR		ATHANI, MULAMGUNNATHUKAVU,			TRICHUR	KERALA STATE.	KL	0487-201751-2...		680771	Machined Forging
10585	THILLAI ENGINEERING WORKS,	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 30 KG (CLOSED DIE)	India	wm@thillaiengg.in	AS PER BHEL SPECN	---------	CHENNAI		161., SIDCO INDUSTRIAL ESTATE			AMBATTUR		TN	044-26250271		600098	Machined Forging
10287	UNITY FORGE PRIVATE LIMITED	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 20 KG (CLOSED DIE)	India	admin@unityforge.in	AS PER BHEL SPECN	---------	MARAIMALAI NAGAR		D-10,MARAIMALAI NAGAR			CHENGALPUT DT	MARAIMALAI NAGAR - CHENNAI-603209	TN	044-27452261-...		603209	Machined Forging
18556	VARSHA TECHNOLOGIES	MFORG	Machined Forging	Fasteners	TPPC	Manufacturer	UPTO 10 KG (CLOSED DIE)	India	varshatech@hotmail.com	AS PER BHEL SPECN	---------	CHENNAI.	NO. 2C / 5	SP-64, 3RD MAIN ROAD,			AMBATTUR INDUSTRIAL ESTATE,		TN	0 72007 61092		600058	Machined Forging
18878	HARYANA FASTENERS	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	M 24 TO M36	India	haryanafasteners@gmail.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA.		166, KAILASH NAGAR,					PB	0161 267 3904	0 98888 80078	141010	
18483	SAVETA ENGINEERING CO PVT LTD	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	M 24 TO M 64	India	saveta_1973@yahoo.co.in	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	SANGLI.		438-K , SAWANTPUR VASAHAT,			KIRLOSKARWADI-PALUS ROAD,		MH	02346222070	7721897070	416308	
83911	Udehra Mechanical Works	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	UPTO M 40	India	udehragroup@gmail.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	Ludhiana		D 88 Focal Point Phase V					PB			141010	
14487	INDUSTRIAL ENGINEERING CORPORATION	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	iecbombay@gmail.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	THANE		HARSH BUILDING, GALA NO. 1 TO 4,			PUJA INDL. COMPLEX, WALIV PHATA,	SATIVALI ROAD, VASAI(E), MUMBAI	MH	0250 645 0508	0 98673 81118	401208	
10269	SUNDRAM FASTENERS LIMITED,	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	vishesh.nair@sfl.co.in	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	CHENNAI		MARKETING DEPARTMENT,			PADI,	CHENNAI-600050	TN	044-26258460-513	9840706148	600050	
15463	BIMCO ENGINEERING ENTERPRISE.	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	bmgupta@gmail.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA.		40, RAMAN ENCLAVE EXTN,			RISHI NAGAR,		PB	0161 2300 479	0 94172 34191	141001	
101980	FOREX FASTNERS PVT LTD	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	forexexports567@gmail.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA		DEHLON ROAD,			VILL: DHAROUR, SAHNEWAL,		PB	0161-2844555	9855044567	141120	
18124	K.C.S ENGINEERING WORKS	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	M6 TO M40	India	kcsengg@yahoo.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	BHOPAL.		PLOT NO.5, INDUSTRIAL ESTATE,			GOVINDPURA,		MP	0755 427 3728	0 98262 90832	462023	
102536	VK FASTENERS PRIVATE LIMITED	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	UPTO M 24 X 80	India	fasteners@vkf.co.in	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	CHENNAI		79, VALMIKI STREET,			THIRUVANMIYUR,		TN	044 24430705	044 24420608	600041	
16388	PIONEER NUTS AND BOLTS PVT LTD	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	pioneer@tuffbolt.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA			13-B,FRIENDS INDUSTRIAL ESTATE	FOCAL POINT			PB	0161 3193004	0 9371755015	141010	
18088	ASP PRIVATE LIMITED	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	UPTO M 39	India	sales@asppvtltd.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	HOWRAH.		7, KUMAR PARA ROAD, LILUAH,					WB	033 2230 7098	0 98363 00889	711204	
14491	DEEPAK FASTENERS LIMITED,	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	oem.unb8@deepakfasteners.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA		4TH FLOOR, THE FIRST MALL,			MALL ROAD		PB	01613911111	9316169350	141001	
17859	NAMDHARI INDUSTRIAL TRADERS PVT LTD	PFHSB	FASTENERS:HSFG BOLTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	namdhari_ind_traders@yahoo.com	BOLT IS3757 GR.8.8 NUT IS 6623 GR.8S	AS PER BHEL TDC	LUDHIANA.		VILL: LATTON DANA,			CHANDIGARH ROAD,		PB	0161 283 3157	0 87288 00938	141113	
10152	MEHTA TRADING COMPANY,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Trader	NOT APPLICABLE	India	mehtatradingcompany@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	MUMBAI		331 DR.NATHPAI ROAD,			OPP.TO DOCKYARD STATION	MUMBAI	MH	022-23776393	022-23711269	400010	
10387	MEENA FASTENERS (P) LTD.,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	ramanath456@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	TRICHY		NO.76, 2ND EAST EXTENSION			SANJEEVI NAGAR,DEVADANAM,		TN	0431-2730065		620002	
10766	SREE PAVITHRA INDUSTRIES,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIEDE	India	sreepavithra@spifasteners.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI		K3,AMBATTUR INDL.ESTATE			SOUTH PHASE,AMBATTUR		TN	044-26255112-...	9841023251	600058	
11841	J.C INDUSTRIES	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	jc_indust@yahoo.co.in	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI		231,SIDCO INDUSTRIAL ESTATE	AMBATTUR		AMBATTUR		TN	044-26257978		600098	
16025	MEGA ENGINEERING PVT LTD.,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	info@megaengg.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	NAVI MUMBAI		PLOT NO: R 840,			MIDC TTC INDUSTRIAL AREA	RABALE,	MH	022-27600440		400701	
14487	INDUSTRIAL ENGINEERING CORPORATION	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	iecbombay@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	THANE		HARSH BUILDING, GALA NO. 1 TO 4,			PUJA INDL. COMPLEX, WALIV PHATA,	SATIVALI ROAD, VASAI(E), MUMBAI	MH	0250 645 0508	0 98673 81118	401208	
30986	HAJI IRON &STEEL WORKS	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	hajiiron@yahoo.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI		NO-25 KUMBAL AMMAN KOIL STREET			THONDAIYARPET		TN	044-2595 4953		600081	
17859	NAMDHARI INDUSTRIAL TRADERS PVT LTD	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	namdhari_ind_traders@yahoo.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA.		VILL: LATTON DANA,			CHANDIGARH ROAD,		PB	0161 283 3157	0 87288 00938	141113	
18551	VARDHMAN INDUTRIAL FASTENERS	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	vardhmanindlfasteners@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	DELHI		DSIDC Shed No 17,			NEW WAZIRPUR INDUSTRIAL COMPLEX,		DL	011 27372296	011 27376676	110052	
15967	JK FITWELL PVT LTD.	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	jkfitwell@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI.	T-224,	SIDCO WOMENS INDUSTRIAL PARK,			KATTOR, THIRUMULLAIVOYAL,		TN	044 2688 0701		600062	
15962	LOKHANDWALA ENGG CO	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	lec52@yahoo.co.in	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI	9-A	FOURTH LINE BEACH(CLIVE BATTERY)					TN	98842 09521		600001	
16388	PIONEER NUTS AND BOLTS PVT LTD	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	pioneer@tuffbolt.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA			13-B,FRIENDS INDUSTRIAL ESTATE	FOCAL POINT			PB	0161 3193004	0 9371755015	141010	
14907	VINAYAK BUSINESS PVT LTD.	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	sales@vinayakfasteners.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	KOLKATA.		40/5, STRAND ROAD,					WB	033 2243 2745		700001	
83911	Udehra Mechanical Works	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	UPTO M 64	India	udehragroup@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	Ludhiana		D 88 Focal Point Phase V					PB			141010	
18878	HARYANA FASTENERS	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	ALL RANGE	India	haryanafasteners@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA.		166, KAILASH NAGAR,					PB	0161 267 3904	0 98888 80078	141010	
18124	K.C.S ENGINEERING WORKS	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	M 6 TO M 90	India	kcsengg@yahoo.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	BHOPAL.		PLOT NO.5, INDUSTRIAL ESTATE,			GOVINDPURA,		MP	0755 427 3728	0 98262 90832	462023	
18088	ASP PRIVATE LIMITED	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	UPTO M 39	India	sales@asppvtltd.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	HOWRAH.		7, KUMAR PARA ROAD, LILUAH,					WB	033 2230 7098	0 98363 00889	711204	
102175	BHARAT INDUSTRIAL SUPPLIER	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	3 MM TO 100 MM	India	info@bharatindustrialsupplier.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	CHENNAI		4, PERIYANNA MAISTRY STREET,			BROADWAY,		TN	9791184094	04425221166	600001	
15463	BIMCO ENGINEERING ENTERPRISE.	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	bmgupta@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA.		40, RAMAN ENCLAVE EXTN,			RISHI NAGAR,		PB	0161 2300 479	0 94172 34191	141001	
101980	FOREX FASTNERS PVT LTD	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT SPECIFIED	India	forexexports567@gmail.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA		DEHLON ROAD,			VILL: DHAROUR, SAHNEWAL,		PB	0161-2844555	9855044567	141120	
17341	PANKAJ INTERNATIONAL,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	sales@pankajinternational.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA		B-40 / 111,PHASE,FOCAL POINT,					PB	0161-2677676	94634-00401	141010	
14491	DEEPAK FASTENERS LIMITED,	PFPHB	SDM:PRECIS.BOLT&NUTS	Fasteners	TPFB	Manufacturer	NOT APPLICABLE	India	oem.unb8@deepakfasteners.com	41225,BPD413253,BPS41106,BPS41115,BPS41116,BPS41117,BPS41215	AS PER TDC	LUDHIANA		4TH FLOOR, THE FIRST MALL,			MALL ROAD		PB	01613911111	9316169350	141001	
12139	SIDDARTH AND GAUTAM ENGINEERS	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer		India	commercial.bhagola@sandg.in	----	-----	DIST. PALWAL		VILL: BHAGOLA	NH-2, MATHURA ROAD,				HR			121102	Horizontal and riser clamps assembly
100555	PROCYON TECHNO INDUSTRY	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	PLATE THK UPTO 25 MM	India	sales@procyontechno.com	----	-----	DIST: MAHESANA		SUR NO: 808/15, BLOCK NO: 09,			B/H GAYATRI DAIRY,	VILL: INDRAD, TAL: KADI,	GJ	9638805669	9909468081	382715	Horizontal and riser clamps assembly
17780	VETRIVEL FORGINGS,	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer		India	vetrivelforgings@gmail.com	----	-----	TIRUVALLUR		DP G-48/49,SIDCO INDUSTRIAL ESTATE,			KAKKALUR,		TN	09245608758		602003	Horizontal and riser clamps assembly
19970	PIPE HANGERS AND SUPPORTS PVT. LTD,	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer		India	mrg@pipehangers.in	----	-----	TANJORE		PLOT NO. 18-23,SIDCO INDUSTRIAL ESTATE,			NANJIKIOTTAI,		TN	04362 255937		613006	Horizontal and riser clamps assembly
30086	PIONEER ENGG INDS	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	pioneereng_ind@yahoo.co.in	----	-----	TRICHY		NO 207, PUDUKOTTAI MAIN ROAD,			SEMBATTU	TIRUCHIRAPALLI	TN	9842402255	0431 - 2319101	620007	Horizontal and riser clamps assembly
13761	JMS ENGINEERING	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jmsengineering@gmail.com	----	-----	COIMBATORE		P.B.NO.4442			12-D/1, MADUKKARAI ROAD,	SIDCO, COIMBATORE	TN	9894729934	04222672667	641021	Horizontal and riser clamps assembly
10885	KANNAPIRAN ENGINEERING INDUSTRIES	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	keiengineers@rediffmail.com	----	-----	COIMBATORE		SF692/3, MADHUKKARAI ROAD					TN	0422-2671087	98940 98493	641021	Horizontal and riser clamps assembly
30660	PRIYAA BOILARS (P) LIMITED	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	NOT AVAILABLE	India	kmdeivasigamani@hotmail.com	----	-----	MATHUR, Pudukkottai Dt.		SF.NO.11/2B&287/1A, Avoor Road,					TN	04339-250548	98424-50544	622515	Horizontal and riser clamps assembly
14914	HASAN TECHNO INDUSTRY PVT LTD.	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	----	-----	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	Horizontal and riser clamps assembly
17456	SPRING SUPPORTS MANUFACTURING	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	supports@springsupports.co.in	----	-----	HOWRAH		18G.T.ROAD (SOUTH),4TH FLOOR,					WB	03326412233	0 98360 30966	711101	Horizontal and riser clamps assembly
17459	AAA SUPPORTS PVT LTD.,	STDCL	CLAMPS - CS	Fasteners	TPPC	Manufacturer	ALL RANGE	India	amit@aaasupports.com	----	-----	VADODARA		PLOT NO 189, GIDC,			POR-RAMANGAMDI,		GJ	0265 2830444	0 93762 19553	391243	Horizontal and riser clamps assembly
12192	ASIAN INDUSTRIAL VALVES AND INSTRUM	TGTPL	TARGET PLATE	Fasteners	TPPC	Manufacturer		India	asvinvalves@gmail.com	AS PER BHEL SPECIFICATION	AS PER DRAWING	CHENNAI		B -17 INDUSTRIAL AREA	MOGAPPAIR EAST				TN	26531689		600037	TARGET PLATE
13761	JMS ENGINEERING	TGTPL	TARGET PLATE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	jmsengineering@gmail.com	AS PER BHEL SPECIFICATION	AS PER DRAWING	COIMBATORE		P.B.NO.4442			12-D/1, MADUKKARAI ROAD,	SIDCO, COIMBATORE	TN	9894729934	04222672667	641021	TARGET PLATE
14914	HASAN TECHNO INDUSTRY PVT LTD.	TGTPL	TARGET PLATE	Fasteners	TPPC	Manufacturer	ALL RANGE	India	info@technoindustry.in	AS PER BHEL SPECIFICATION	AS PER DRAWING	HOWRAH.		#8, GT ROAD (SOUTH),			2ND FLOOR, HOWRAH MAIDAN,		WB	033 2641 5952		711101	TARGET PLATE

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI
OUTSOURCING DEPARTMENT
List of Vendors Approved for Heat treatment by BHEL

VENDOR	VENDOR NAME	Address	MOB NO	TEL_NUMBER	EMAIL_ADDR_STANDARD
13761	JMS ENGINEERING	JMS ENGINEERING P.B.NO.4442 12-D/1, MADUKKARAI ROAD, SIDCO, COIMBATORE COIMBATORE 641021 TN 641021	+919894729934	9894729934	jmsengineering@gmail.com
18979	ICE STEEL 1 PVT LTD	M/s. ICE STEEL 1 PVT LTD S3 TO S10 PHASE III SIPCOT INDUSTRIAL COMPLEX RANIPET 632405 TN 632405	+919047005945	04172-278100	mohit.more@steel1india.com
30056	BHARAKATH METAL BUILDERS	M/s. BHARAKATH METAL BUILDERS E-31,SIDCO INDUSTRIAL ESTATE PHASE - II, VALAVANTHAN KOTTAI THUVAKUDI-TRICHY 620015 TN 620015	+918012590949	8012590949	bharakathmetal@gmail.com
30084	NIRMAL ENTERPRISES	NIRMAL ENTERPRISES NO 3/989 1 ST STREET PUGAZH NAGAR (OPP.OIL MILL BUS STOP) TIRUCHIRAPALLI KATTUR 620019 TN 620019	+919894443932	98944 43932	try.nent@gmail.com
30090	R.K METAL INDUSTRIES	R.K METAL INDUSTRIES 32/4, III STREET,NEHRU NAGAR KAJAMALAI MAIN TIRUCHIRAPALLI TRICHY-TOWN 620023 TN 620023		0431/2420005	rkmetal2003@yahoo.com

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI
OUTSOURCING DEPARTMENT
List of Vendors Approved for Heat treatment by BHEL

VENDOR	VENDOR NAME	Address	MOB NO	TEL_NUMBER	EMAIL_ADDR_STANDARD
30114	VANGUARD INDUSTRIES	VANGUARD INDUSTRIES D2-B, INDL ESTATE THIRUVERUMBUR TIRUCHIRAPALLI THIRUVERUMBUR 620014 TN 620014	+919842412672	0431-2552233	30114van@gmail.com
30175	KATTHIRMALAI ENGINEERING WORKS	KATTHIRMALAI ENGINEERING WORKS G1 ANCILLARY INDUSTRIAL ESTATE THIRUVERUMBUR TIRUCHIRAPALLLI TIRUCHIRAPALLLI - 620 014 620014 TN 620014	+919942984454	9942984454	katthirmalai1977@gmail.com
30236	VIJJAAY COY INDUSTRIESS	M/s. VIJJAAY COY INDUSTRIESS SF44/2, SUGAR CANE ROAD MELAKALKANDAR KOTTAI TIRUCHIRAPPALLI 620011 TN 620011	+919952411462	9952411463	vcitry@yahoo.com
30255	DEVI STRUCTURALS	DEVI STRUCTURALS NO 7 SIDCO ANCY INDUSTRIAL ESTATE BOILER PLANT POST THIRUVERUMBUR THIRUVERUMBUR-TRICHY 620014 TN 620014	+919842208032	98422 08032	devistrl@yahoo.co.in
30265	JAYARAM ENGINEERING WORKS,	M/s. JAYARAM ENGINEERING WORKS, E-15 & 16,DEVELOPED PLOTS ESTATE, THUVAKUDI, TRICHY 620015 TN 620015	+919842455045	98424-55045	cmrao@jayaramengg.com

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI
OUTSOURCING DEPARTMENT
List of Vendors Approved for Heat treatment by BHEL

VENDOR	VENDOR NAME	Address	MOB NO	TEL_NUMBER	EMAIL_ADDR_STANDARD
30280	SREE ATREYA ENTERPRISES	Ms. SREE ATREYA ENTERPRISES 12, TAMIL SANGAM BUILDINGS WEST BOULEWARD ROAD TIRUCHIRAPALLI 620008 TN 620008	+919842470097	9842470097	sreeatreya.enterprises@gmail.com
30528	SOMIAH INDUSTRIES	M/s. SOMIAH INDUSTRIES D-30,DEVELOPED PLOTS ESTATE, TIRUCHIRAPALLI TIRUCHIRAPPALLI 620015 TN 620015	+919942988853	9942988853	somiahindustriesl70@gmail.com
30825	AANBAR INDUSTRIES,	M/s. AANBAR INDUSTRIES, PLOT NO.22, SIDCO INDL. ESTATE, TRICHY THIRUVERUMBUR 620014 TN 620014	+919750963331	9750963331	aanbarindustries@yahoo.com
30861	MARIYA ENGINEERING ENTERPRISES	MARIYA ENGINEERING ENTERPRISES SF.NO.22/1, TRICHY-TANJORE MAIN ROAD, ASSUR POST TRICHY-TIRUCHIRAPALLI-620 015 620015 TN 620015	+919865229911	9566663527	mariaenggenterprises@gmail.com
30885	K.R.MURTHE WELDING WORKS,	M/s. K.R.MURTHE WELDING WORKS, NO.175,THUVAKUDI SIDCO WOMEN INDUSTRIAL ESTATE,TRICHY VALAVANTHANKOTTAI 620015 TN 620015	+919942319533	9942319533	kr_murthe@yahoo.co.in

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI
OUTSOURCING DEPARTMENT
List of Vendors Approved for Heat treatment by BHEL

VENDOR	VENDOR NAME	Address	MOB NO	TEL_NUMBER	EMAIL_ADDR_STANDARD
30902	VEGA ASSOCIATES,	M/s. VEGA ASSOCIATES, SF NO.472/4C,VEERAM PATTY ROAD, T.NALLUR, KULATHUR (TK), PUDUKKOTTAI DIST. 622515 TN 622515	+918012591110	04339-250493	vegaassociates_2006@rediffmail.com
31025	MANI NAGGAPPA MOTORS MADURAI P LTD.	M/s. MANI NAGGAPPA MOTORS MADURAI P LTD. SL.NO.90/3 MADURAI-MELUR MAIN ROAD, NARASINGAMPATTI, MADURAI 625122 TN 625122	+919344101699	9344101699	nagauto@gmail.com
31321	WIRE AND WIRE PRODUCTS	M/s. WIRE AND WIRE PRODUCTS Phase-II No:21, SIDCO Industrial Estate, Valavanthankottai Trichy 620015 TN 620015	+919952411462	99524 11462	wwp620007@yahoo.co.in
31490	DREAMZ INDUSTRY	M/s. DREAMZ INDUSTRY NO.23, SIDCO INDL ESTATE TIRUVERAMBUR TIRUCHIRAPALLI 620014 TN 620014	+918012378290	8012378290	dreamzindustry2012@yahoo.com
31841	SREE SIVA SAKTHI ENGINEERING WORKS	SREE SIVA SAKTHI ENGINEERING WORKS PLOT No.11,12 & 13, SF.No.18/1 - C AVOOR MAIN ROAD MATHUR MATHUR-PUDUKKOTTAI 622515 TN 622515	+919842052200	9842052200	ssshangers@gmail.com

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI
OUTSOURCING DEPARTMENT
List of Vendors Approved for Heat treatment by BHEL

VENDOR	VENDOR NAME	Address	MOB NO	TEL_NUMBER	EMAIL_ADDR_STANDARD
31941	SOUTHERN METAL PROCESS	M/s. SOUTHERN METAL PROCESS C-15/A DP ESTATE THUVAKUDI TRICHY 620015 620015	+919445701314	9445701314	
32400	QUALITY INDUSTRIAL SERVICES	QUALITY INDUSTRIAL SERVICES THUVAKUDI PLOT W111, SIDCO WOMEN'S INDL ESTATE VALAVANTHANKOTTAI TRICHY-TRICHY 620015 620015			

LIST OF BHEL APPROVED BLASTING AND PAINTING VENDORS

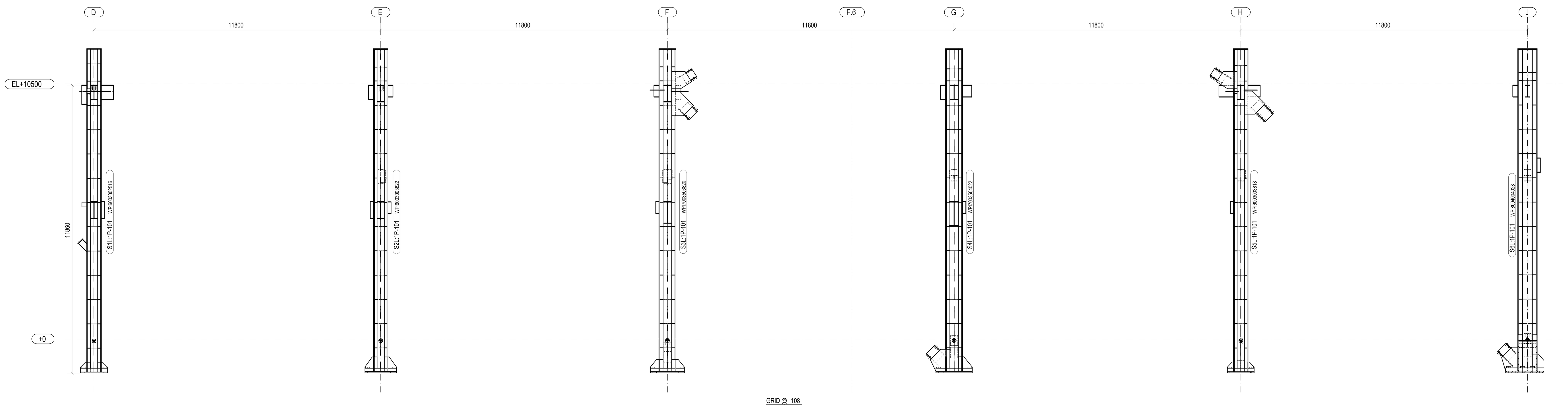
Sl No.	Vendor name	City	Telephone	Phone	Email Id
1	AIRTECH ENGINEERS	THANJAVUR	9842419388	0431-6547047	airtechengrs@gmail.com
2	AMARNATH ENGINEERING INDUSTRIES	THUVAKUDI	9842403881	9842403881	amarnath.engg@gmail.com
3	APT GLOBAL MARINE ENGINEERING PVT.L	CUDDALORE DIST.	0414-221 7051	9442170633	accounts2.india@aptglobalmarine.com
4	ARONE INDUSTRIES	TRICHY	9842415332	9842415332	arone.ind@gmail.com
5	ATMASTCO LIMITED	BHILAI.	0788-2290064	98261-63926	atmastco.group@gmail.com
6	BANSAL FABWEL INDUSTRIES	JHANSI.	9415055435	9415055620	bansal.jhansi@gmail.com
7	BHARAKATH METAL BUILDERS	THUVAKUDI	8012590949	9842815916	bharakathmetal@gmail.com
8	CAPACITE STRUCTURES LIMITED	THANE.	0256-645601-25		cscapacite@gmail.com
9	CONTECH ENGINEERS PVT LTD.	PUDUKOTTAI.	0432 224 4058		contechengrs@gmail.com
10	CORE FAB PROJECTS PVT. LTD	BHILAI	7882296086		corefab@rediffmail.com
11	CORROSION PROTECTION ENGINEERS INDI	VELLORE	9686111985	9686111973	corrosionprotectionindia@gmail.com
12	DEVI STRUCTURALS	THIRUVERUMBUR	98422 08032	9942911030	devistrl@yahoo.co.in
13	DEVIBALA STRAKTURAL	THANJAVUR DIST	9444344765		devibalastraktural@yahoo.com
14	EESA FABRICATOR PVT LTD	VELLORE-	0416 2915159		senthil@eesafpl.com
15	ESR INDUSTRIES	TANJORE	9750075557		esrind16@gmail.com
16	FABRIMAX ENGINEERING PVT.LTD.,	NAGPUR	0710-423 2777		fepl_ngp@rediffmail.com
17	FERRO METALS	BHILAI-	0788-4086044	9009491999	ferro_metals@yahoo.com
18	FIROZE FABRICATORS.	METTUR DAM	0429 822 2322	04298222322	firoze.mettur@gmail.com
19	FIVE STAR ENGINEERING INDUSTRIES	TRICHY	9965278238	9965278238	starfive38@yahoo.co.in
20	FIVE STAR INDUSTRIES	MATHUR	04339-250569	9842450569	fivestarin@gmail.com
21	GISF ENGINEERING PRIVATE LIMITED	ISHOPUR	01732-203307		greatindiaunit2@gmail.com
22	GLOBAL ENERGY PRODUCTS	VALAVANTHANKOTTAI, Trichy	0431-2731222	9944 369 111	globalenergyproducts.trichy@gmail.com
23	GOODLUCK INDIA LIMITED	GHAZIABAD	9910496317		anindya.baksi@goodluckindia.com
24	HARYANA STEEL MONGERS PVT. LTD.	HARYANA	01244183330	9810403388	haryanasteelmongers@gmail.com
25	J.R ENGINEERING WORKS	THUVAKUDI, Trichy	0431-2511446	9843144430	rosan80@gmail.com
26	JJ INDUSTRIES	TRICHY	9789165090	9789165090	jjsahayaraj@yahoo.com
27	KOTHARI CHEMICALS	BHILAI	07882974016	9302291000	kcenggdiv@gmail.com
28	KRISHNAA LAKSHMI ENGINEERING	PUDUKKOTTAI	0 9942984421	0 9942984421	krishnaalakshmiengg@gmail.com
29	KUMAR INDUSTRIES	TRICHY	0431-2500493	98424-79079	kumar_industry@yahoo.com
30	M.L.S ENTERPRISES PVT LTD.	PUDUKOTTAI DIST.	0433 9250544	9842722776	mlsenterprises2012@gmail.com
31	MAHANDRA INDUSTRIES	TIRUCHIRAPALLI	022 - 5612567	9442661862	samymuthu85@yahoo.com
32	MANGAY INDUSTRIES	VENDAYAMPATTI.	9884046216	9840096216	mangayindustries@gmail.com
33	MANI NAGGAPPA MOTORS MADURAI P LTD.	MADURAI	9344101699	9442257004	nagauto@gmail.com
34	MARIYA INDUSTRIES	Pudhukottai	93622 12701	93622 12701	mariyainds@yahoo.com
35	MARKHS ENGINEERING WORKS	Navalur Villag, Thanjavur	9842015953		markhsengtry@gmail.com
36	METAL FAB HIGHTECH PVT. LTD.,	NAGPUR	7104-231240		mfhpl@hotmail.com
37	MPIL STEEL STRUCTURES LTD.,	THANE	025 2527 0801		alok.gupta@mpil.in
38	NBS FAB TECH PVT. LTD.,	THANJAVUR DIST.	98429 77211	98424-15611	nbsfab@gmail.com
39	NECO HEAVY ENGINEERING AND	NAGPUR	07104 325682	0 93703 14479	gautam.mohanty@necoindia.com
40	PINAX STEEL INDUSTRIES PVT.LTD	KOLKATA.	06124-2266124	9263188410	steel@pinaxgroup.in
41	PINAXIS HI TECH ENGINEERING PVT LTD	DIST: KHEDA	7984122058	9725346881	info@pinaxisengg.com
42	PRADEEP ENGINEERING ENTERPRISES,	RANIPET	04172-291860		pradeepengv66@yahoo.com
43	PRUDENT ENGG	ARCOT	9585454728	9585454728	prudentengg@gmail.com
44	RAMNATH IRON & STEEL INDUSTRIES	HOWRAH.	0 99039 71567		ramnathiron@gmail.com
45	REGIONAL ENGG. WORKS	Tiruchirappalli	0431-2500187	2441767	regionalengineeringworks@gmail.com
46	REGIONAL ENGINEERING ENTERPRISES	TRICHY	8012591072	0431-2500187	regionalengineeringenterprises@gmail.com
47	RMK ENGINEERING	MATHUR.	9965597722	9842286314	rmkengg@gmail.com
48	SAHARANPUR ENGINEERING WORKS	UTTAR PRADESH-	0132 2790203	0 9837069115	sewpl@rediffmail.com
49	SALEM AUTOMECH (INDIA) Pvt. LTD.,	SALEM.	0427-2902596	97902 33635	salemautomechltd@gmail.com
50	SG HEAVY ENGINEERING PVT LTD	PALGHAR.	022 6756 4849	0 99670 02544	deepak.goyal@vggroup.org
51	SHREE SAI INFRA INDIA PVT LTD	BHILAI	0788-2352864	94792 59639	th.singh@shreesaiinfra.org
52	SIMPLEX ENGINEERING & FOUNDRY	BHILAI	7882381054	7882381055	nipul.shah@simplexengg.in
53	SMK AUTOMATICS WORKS	TANJORE	9443747803	9443747803	smkautowork@yahoo.com
54	SREE KAMAKSHI INDUSTRIES	Tiruchirappalli	0431-2500170	2510870	skihf2013@gmail.com
55	SRI GANESHA ENTERPRISES	THANJAVUR	8012533367	8012590525	sriganeshaenterprises2016@gmail.com
56	STAR ENTERPRISES	TANJORE	9688333300		starenterprisestrichy@gmail.com
57	SUCCESS ENGINEERING INDUSTRIES	TANJORE	04362-221306	9698120202	successengginds@yahoo.com
58	SUJAY INDUSTRIES	PUNE	9890704049	9822197743	sujay.industriespune@gmail.com
59	SUN ENGINEERING (UNIT-II),	PUDUKKOTTAI	04322-244777	9865171961	vairava_r@yahoo.com
60	SURIYA ENGINEERING WORKS	THANJAVUR	0 94435 34224		suriyaengg@yahoo.com
61	TANJORE INDUSTRIALS	TRICHY	9842412121		tanj_indus06@yahoo.com
62	TIRUCHIRAPPALLI ENGINEERING AND	TRICHY	0431 2500606	0431 2421050	treat.trichy@gmail.com
63	TJSV STEEL FABRICATION&GALVANIZING(	UDUMALPET	9489092024	94890-92002	marketing@tjsvgalvan.com
64	TOOL FAB ENGINEERING INDUSTRIES	Tiruchirappalli	0431 250 0480	2500758	vasu@toolfabengg.in
65	TRP ENGINEERING	THANJAVUR	0431 2500305	9842479992	trpengg@yahoo.com
66	UNI PROFILES PVT.LTD	RAJGANGPUR.	0661-2660542		uniprofiles@uniprofiles.in
67	VASAN ENGINEERING INDUSTRIES	KULATHUR TK,PUDUKKOTTAI	04339-250425	9842450518	vasan.engineering@gmail.com
68	VIJI ENGINEERING	TRICHY.	9363698603	6369821480	vijiengg1971@gmail.com
69	VISHWAA ENGINEERING	TRICHY	0431-2502589	9750965589	rmayilan18@gmail.com
70	VRINDA ENGINEERS P.LTD.,	KOLKATA	033-22274576	94334-96753	vefab@vrindaengineers.com
71	VRINDA ENGINEERS PVT.LTD	BHILAI	0788 2227 4576		bw@vrindaengineers.com
72	WELDKRAFT	PUDUKKOTTAI	04339-250563	9842450569	weldkraftin@gmail.com

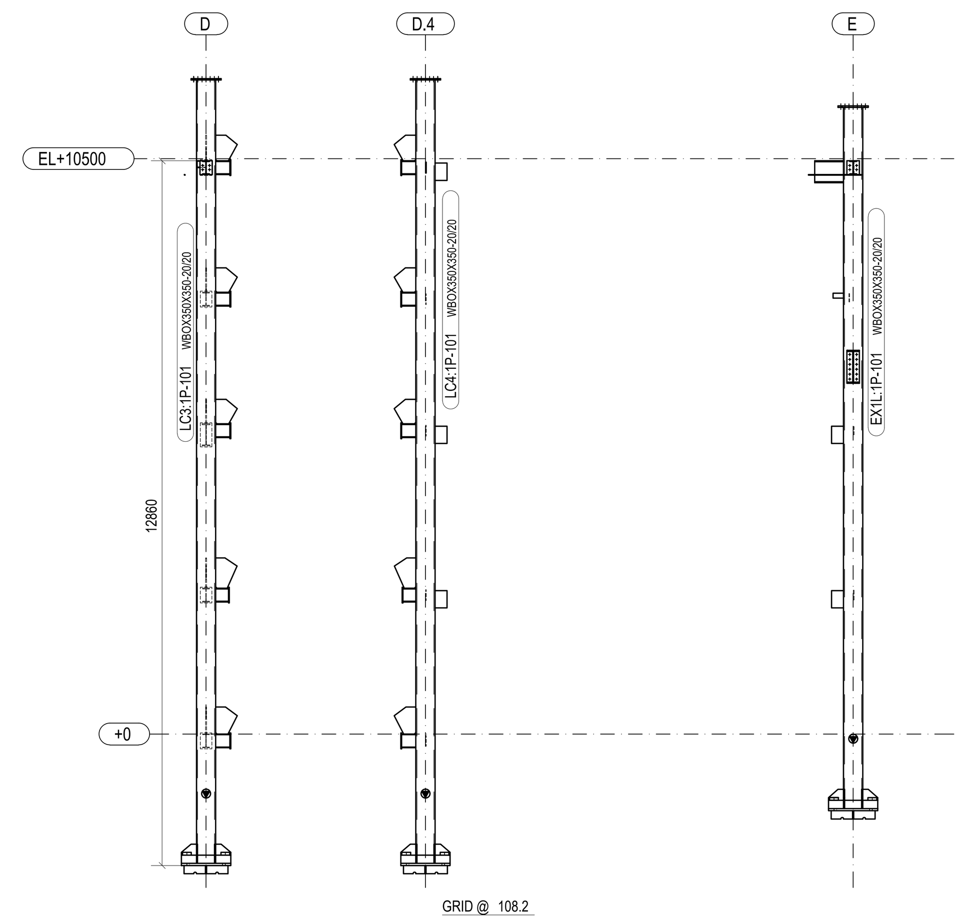
DRAWING NO: 0-35-141-35007

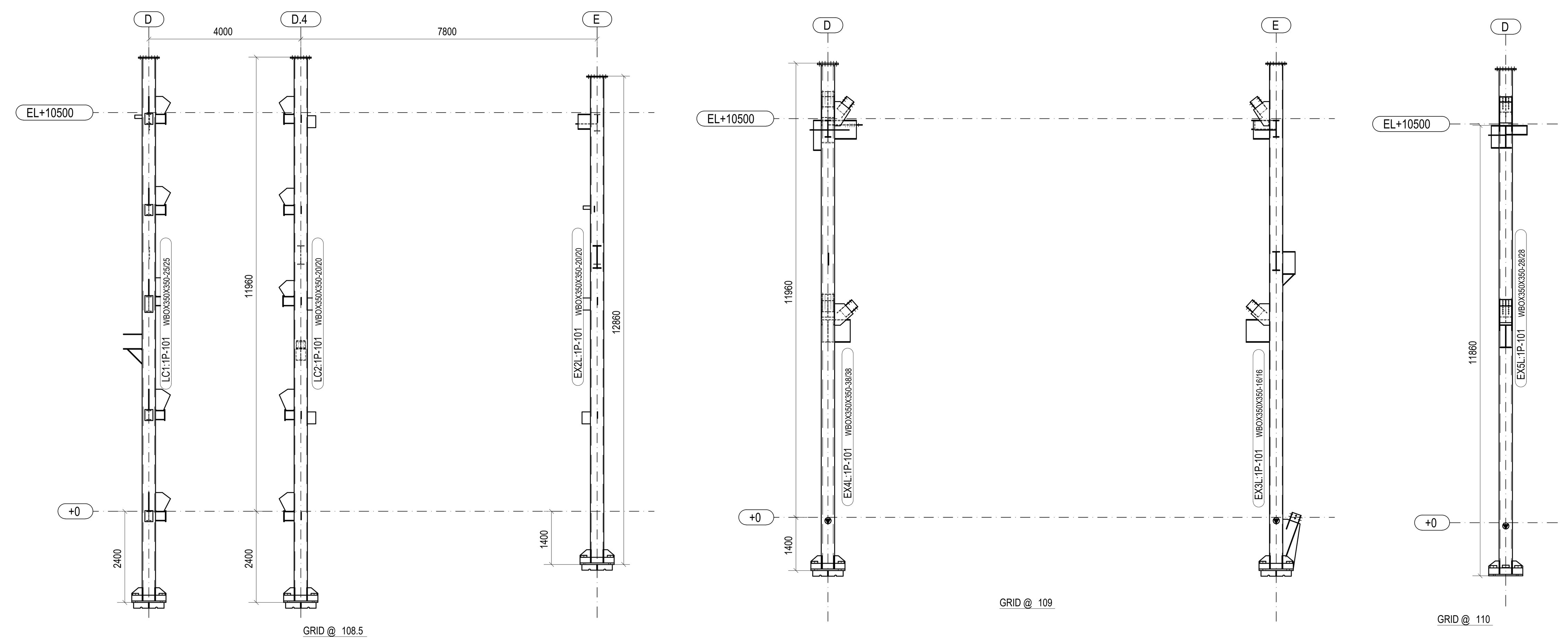
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 022-0299

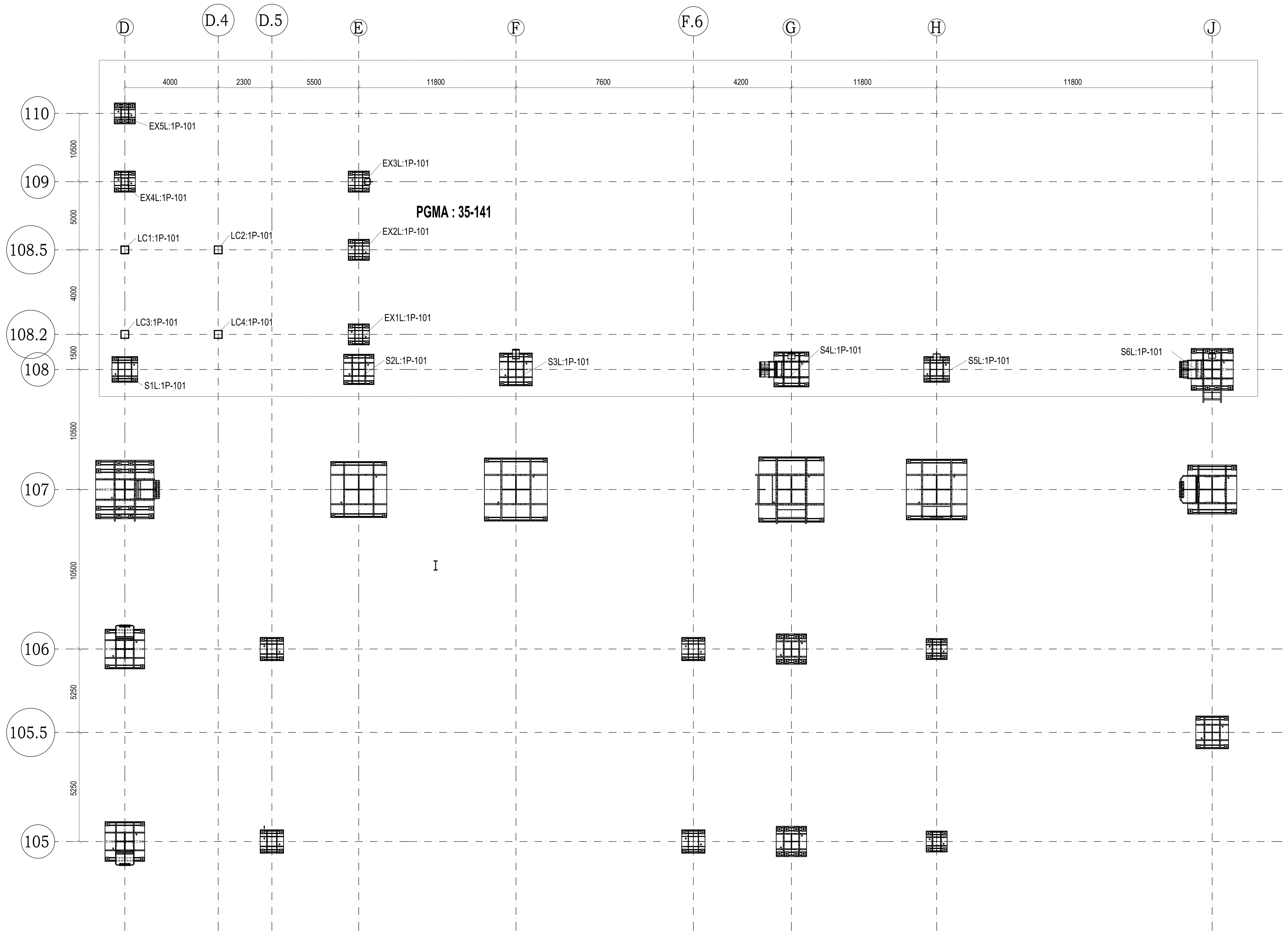
ASSEMBLY MARK NO	JOINT NO	TOP/ BOTTOM/ REST PLATE	
		BOLT SIZE	QTY
EX1L:1P-101	-NA-	HSFG:M24x90	20
EX2L:1P-101	-NA-	HSFG:M24x90	20
EX3L:1P-101	-NA-	HSFG:M24x70	26
EX3L:1P-101	-NA-	HSFG:M24x90	20
EX4L:1P-101	-NA-	HSFG:M24x70	42
EX4L:1P-101	-NA-	HSFG:M24x80	12
EX4L:1P-101	-NA-	HSFG:M24x120	20
EX5L:1P-101	-NA-	HSFG:M24x70	16
EX5L:1P-101	-NA-	HSFG:M24x80	12
EX5L:1P-101	-NA-	HSFG:M24x100	20
LC1:1P-101	-NA-	HSFG:M24x90	20
LC2:1P-101	-NA-	HSFG:M24x70	4
LC2:1P-101	-NA-	HSFG:M24x90	20
LC3:1P-101	-NA-	HSFG:M24x70	4
LC3:1P-101	-NA-	HSFG:M24x90	20
LC4:1P-101	-NA-	HSFG:M24x90	20
S1L:1P-101	-NA-	HSFG:M24x70	4
S2L:1P-101	-NA-	HSFG:M24x70	4
S2L:1P-101	-NA-	HSFG:M24x80	12
S3L:1P-101	-NA-	HSFG:M24x70	10
S3L:1P-101	-NA-	HSFG:M24x100	36
S3L:1P-101	-NA-	HSFG:M24x110	36
S4L:1P-101	-NA-	HSFG:M24x70	10
S4L:1P-101	-NA-	HSFG:M24x110	36
S5L:1P-101	-NA-	HSFG:M24x70	10
S5L:1P-101	-NA-	HSFG:M24x110	80
S6L:1P-101	-NA-	HSFG:M24x70	10
S6L:1P-101	-NA-	HSFG:M24x110	48
S6L:1P-101	-NA-	HSFG:M24x130	80

BOLT SUMMARY		
SL NO	BOLT SIZE & 1"WASHER"	QTY
1	HSFG:M24x70	140
2	HSFG:M24x80	36
3	HSFG:M24x90	140
4	HSFG:M24x100	56
5	HSFG:M24x110	200
6	HSFG:M24x120	20
7	HSFG:M24x130	80
8	TOTAL	672









KEY PLAN OF AUXILLARY COLUMN LEFT SIDE

LEGEND:-
1) WBOX-WELDED BOX COLUMN
2) WPI-WELDED PLUE-I COLUMN
3) MBL-MAIN BRACED LEVEL
4) TOS-TOP OF STEEL
5) EJ-ERECTION JOINT
6) BOBP-BOTTOM OF BASE PLATE

NOTES :-
1) FOR GA REFER DWGS.NO : 0-35-181-34719 TO 34725.
2) PUNCH MARK TO BE DONE IN DUS WHERE MARK HAS BEEN SHOWN IN THE FABRICATION DRAWING AT SHOP.
3) DURING ERECTION AT SITE, ORIENTATION OF MEMBERS SHALL BE DECIDED BASED ON PUNCH MARKS SHOWN IN THIS DRAWING.
4) REFER FOR PRODUCTION NOTES:3-35-110-07658.
5) REFER FOR BEAMS & BRACING WELD DETAILS:0-35-440-17599.
6) REFER FOR WELD BOX COLUMN:0-35-110-16890.
7) REFER FOR WELDED BEAMS:3-35-440-00697.
8) MATERIALS AND OTHER REQUIREMENTS ARE GIVEN PER BOILER ONLY.
9) MANUFACTURING REQUIREMENTS SHALL BE AS PER RELEVANT QCP(LATEST REV).
10) BLACK BOLTS INDICATED IN INDIVIDUAL PART DRAWINGS IF ANY ARE MEANT FOR TRANSPORTATION PURPOSE ONLY.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	15	S6L:1P-101 WPI8004004028		0-35-141-32316				No	17277.796 / 1		
	14	S5L:1P-101 WPI6003003818		0-35-141-32314				No	9345.558 / 1		
	13	S4L:1P-101 WPI7003504022		0-35-141-35012				No	12103.957 / 1		
	12	S3L:1P-101 WPI7003503820		0-35-141-35010				No	11447.613 / 1		
	11	S2L:1P-101 WPI6003003822		0-35-141-35008				No	9164.714 / 1		
	10	S1L:1P-101 WPI6003002516		0-35-141-32306				No	6407.199 / 1		
	9	LC4:1P-101 WBOX350X350-20/20		0-35-141-32304				No	3780.920 / 1		
	8	LC3:1P-101 WBOX350X350-20/20		0-35-141-32302				No	3950.415 / 1		
	7	LC2:1P-101 WBOX350X350-20/20		0-35-141-32300				No	3836.406 / 1		
	6	LC1:1P-101 WBOX350X350-25/25		0-35-141-32298				No	4713.146 / 1		
	5	EX5L:1P-101 WBOX350X350-28/28		0-35-141-32296				No	4875.921 / 1		
	4	EX4L:1P-101 WBOX350X350-38/38		0-35-141-32294				No	6363.585 / 1		
	3	EX3L:1P-101 WBOX350X350-16/16		0-35-141-32292				No	3365.234 / 1		
	2	EX2L:1P-101 WBOX350X350-20/20		0-35-141-32290				No	3357.692 / 1		
	1	EX1L:1P-101 WBOX350X350-20/20		0-35-141-32288				No	3443.602 / 1		

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014
355-052

	NAME	SIGNATURE	DATE
DRN	PACHAIMAL S		11.01.2025
CHD	MENAGA V		11.01.2025
APPD	YUVARAJ S		11.01.2025

DEPT	CODE		PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
ST	122	ALL DIMENSIONS ARE IN MM		NTS	103433.759	

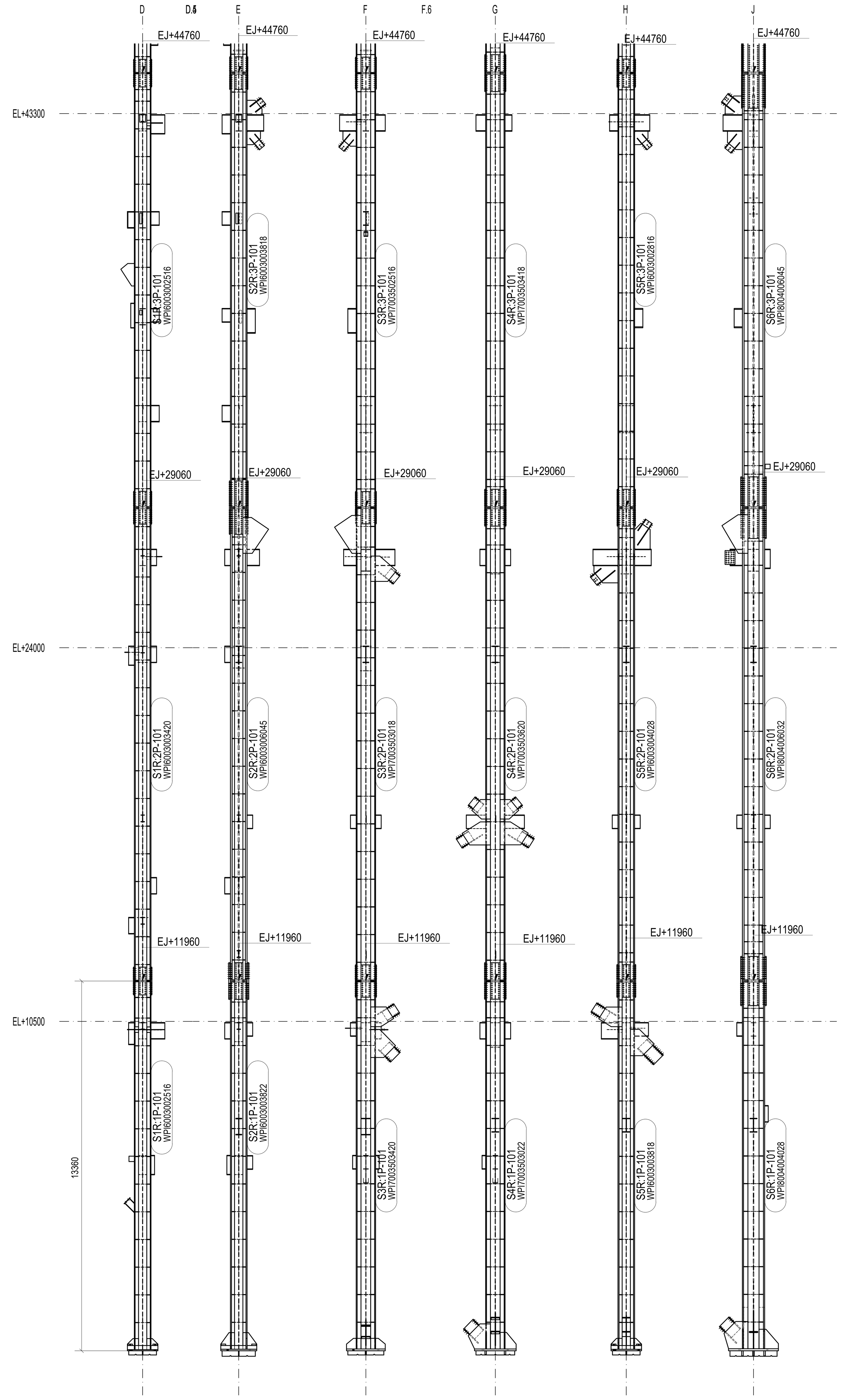
TITLE: AUX. COL. LHS TIER-1 (BOM)

DRAWING NO : 0-35-141-35007 REV 00

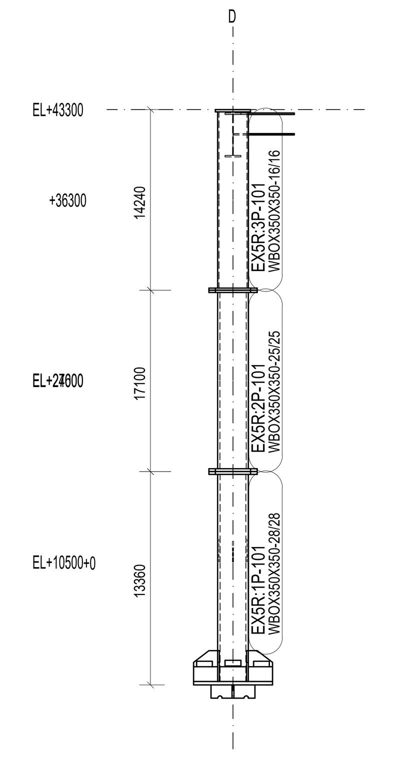
DRAWING NO: 0-35-152-34973

ASSEMBLY MARK NO	JOINT NO	TOP/ BOTTOM/ REST PLATE	
		BOLT SIZE	QTY
EX1R:2P-101	-NA-	HSFG:M24x70	12
EX1R:2P-101	-NA-	HSFG:M24x90	20
EX2R:2P-101	-NA-	HSFG:M24x90	20
EX3R:2P-101	-NA-	HSFG:M24x70	22
EX3R:2P-101	-NA-	HSFG:M24x90	20
EX4R:2P-101	-NA-	HSFG:M24x70	32
EX4R:2P-101	-NA-	HSFG:M24x100	20
EX5R:2P-101	-NA-	HSFG:M24x70	16
EX5R:2P-101	-NA-	HSFG:M24x90	20
LC5:2P-101	-NA-	HSFG:M24x70	72
LC5:2P-101	-NA-	HSFG:M24x90	20
LC6:2P-101	-NA-	HSFG:M24x70	36
LC6:2P-101	-NA-	HSFG:M24x90	20
LC7:2P-101	-NA-	HSFG:M24x70	76
LC7:2P-101	-NA-	HSFG:M24x90	20
LC8:2P-101	-NA-	HSFG:M24x70	44
LC8:2P-101	-NA-	HSFG:M24x90	20
S1R:2P-101	-NA-	HSFG:M24x90	4
S1R:2P-101	-NA-	HSFG:M24x100	48
S1R:2P-101	-NA-	HSFG:M24x110	48
S2R:2P-101	-NA-	HSFG:M24x120	4
S2R:2P-101	-NA-	HSFG:M24x140	64
S2R:2P-101	-NA-	HSFG:M24x160	64
S3R:2P-101	-NA-	HSFG:M24x100	140
S4R:2P-101	-NA-	HSFG:M24x100	88
S4R:2P-101	-NA-	HSFG:M24x110	164
S5R:2P-101	-NA-	HSFG:M24x70	6
S5R:2P-101	-NA-	HSFG:M24x80	16
S5R:2P-101	-NA-	HSFG:M24x100	24
S5R:2P-101	-NA-	HSFG:M24x120	116
S6R:2P-101	-NA-	HSFG:M24x70	24
S6R:2P-101	-NA-	HSFG:M24x120	4
S6R:2P-101	-NA-	HSFG:M24x140	88
S6R:2P-101	-NA-	HSFG:M24x160	88

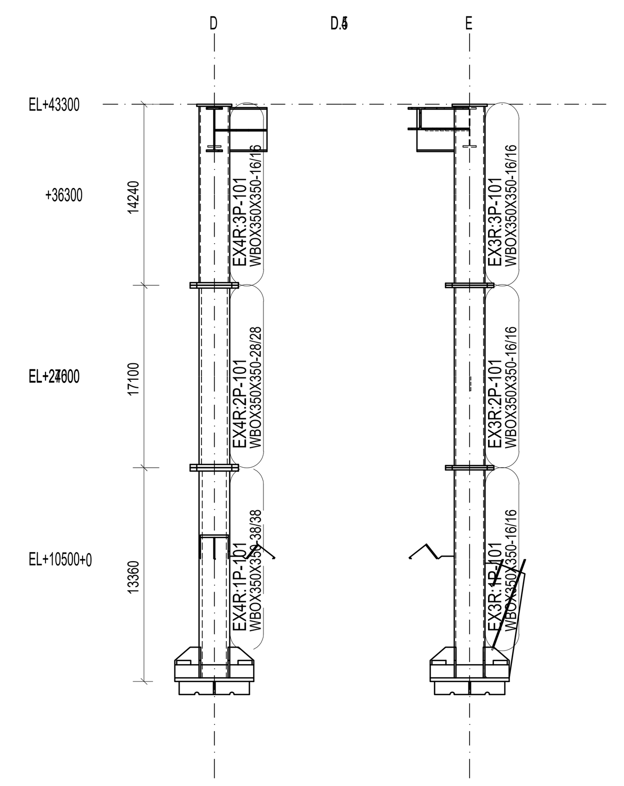
BOLT SUMMARY		
SL NO	BOLT SIZE & 1"WASHER"	QTY
1	HSFG:M24x70	340
2	HSFG:M24x80	16
3	HSFG:M24x90	164
4	HSFG:M24x100	320
5	HSFG:M24x110	212
6	HSFG:M24x120	124
7	HSFG:M24x140	152
8	HSFG:M24x160	152
9	TOTAL	1480



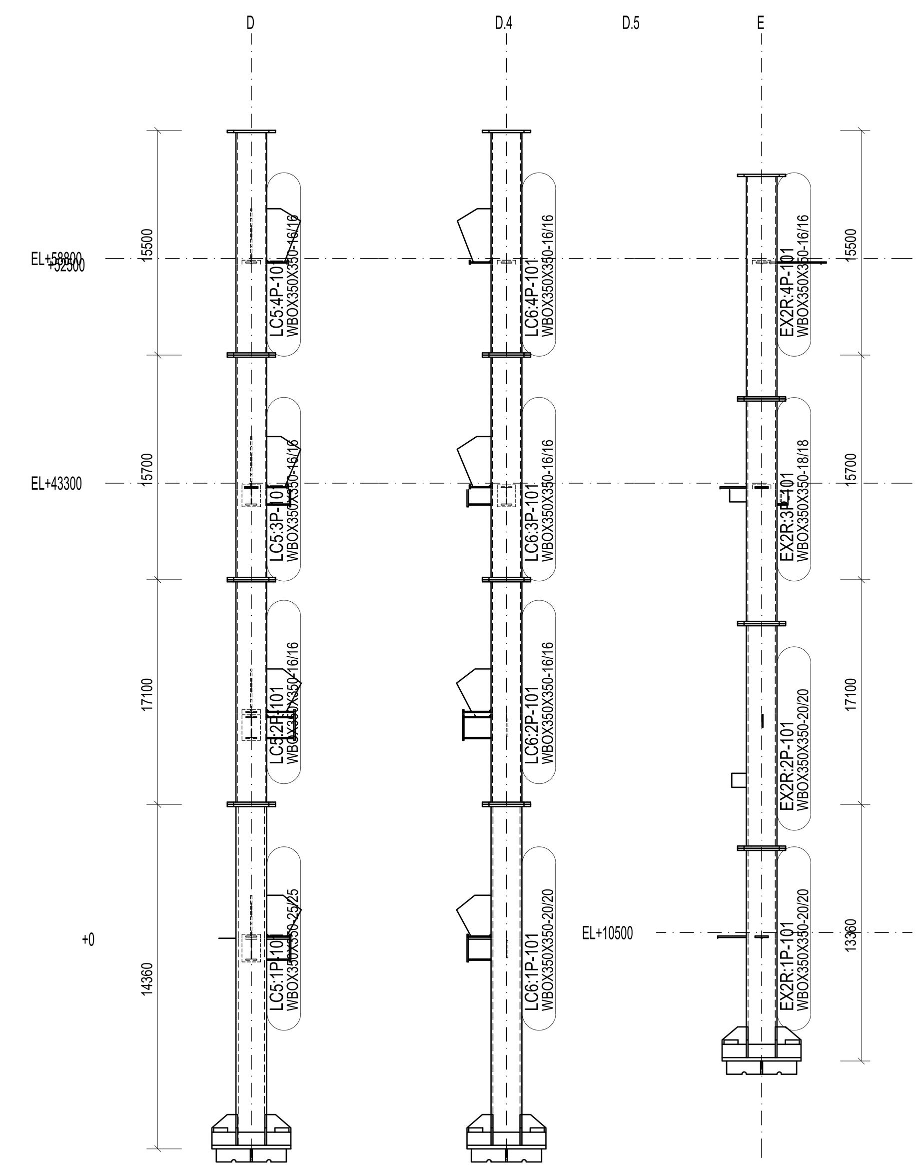
ALONG GRID - 103



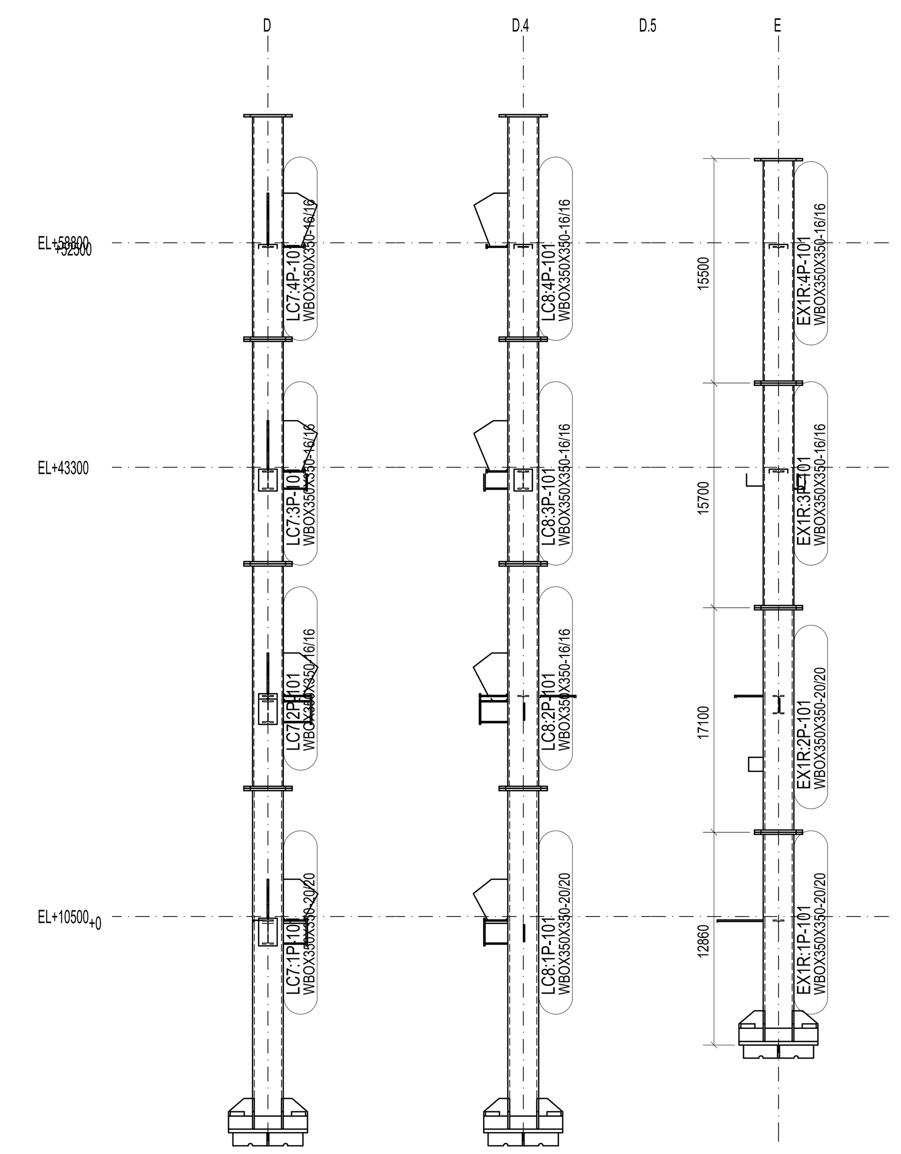
ALONG GRID-101



ALONG GRID - 102

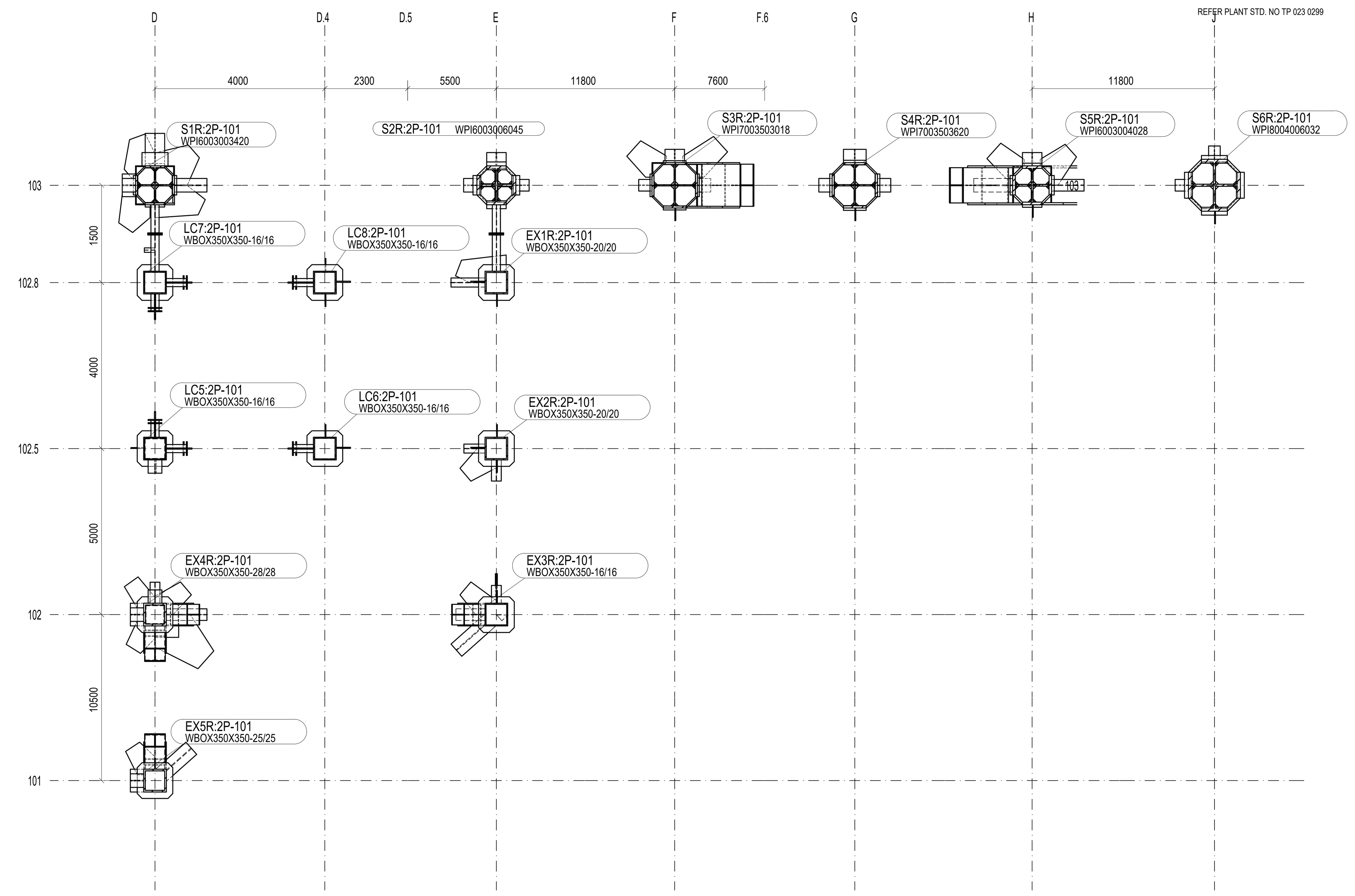


ALONG GRID - 102.5



ALONG GRID - 102.8

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO:TP 023 0299



KEY PLAN

LEGEND:-
1) WBOX-WELDED BOX COLUMN
2) WPI-WELDED PLUE-I COLUMN
3) MBL-MAIN BRACED LEVEL
4) TOS-TOP OF STEEL
5) EJ-ERECTION JOINT
6) BOBP-BOTTOM OF BASE PLATE

NOTES :-
1. FOR GA DRAWING REFER DRG NO. :
   A: 0-35-181-34719 - ELEVATION GRID @ D, D.4 &D.5
   B: 0-35-181-34720 - ELEVATION GRID @ E, F, F.6
   C: 0-35-181-34721 - ELEVATION GRID @ G& H
   D: 0-35-181-34722 - ELEVATION GRID @ J
   E: 0-35-181-34723 - ELEVATION GRID @ 103&108
   F: 0-35-181-34724 - ELEVATION GRID @ 104&107
   G: 0-35-181-34725 - ELEVATION GRID @ 105&106
2. PUNCH MARK TO BE DONE IN DUS WHERE MARK HAS BEEN SHOWN IN THE FABRICATION DRAWING AT SHOP.
3. DURING ERECTION AT SITE, ORIENTATION OF MEMBERS SHALL BE DECIDED BASED ON PUNCH MARKS SHOWN IN THIS DRAWING.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	15	S6R:2P-101 WPI8004006032		0-35-152-34971				No	21495.776 1		
	14	S5R:2P-101 WPI6003004028		0-35-152-34969				No	12238.025 1		
	13	S4R:2P-101 WPI7003503620		0-35-152-34967				No	13236.399 1		
	12	S3R:2P-101 WPI7003503018		0-35-152-34965				No	10999.936 1		
	11	S2R:2P-101 WPI6003006045		0-35-152-34963				No	16839.657 1		
	10	S1R:2P-101 WPI6003003420		0-35-152-34961				No	9374.824 1		
	9	LC8:2P-101 WBOX350X350-16/16		0-35-152-34959				No	3402.929 1		
	8	LC7:2P-101 WBOX350X350-16/16		0-35-152-34957				No	3573.006 1		
	7	LC6:2P-101 WBOX350X350-16/16		0-35-152-34955				No	3293.602 1		
	6	LC5:2P-101 WBOX350X350-16/16		0-35-152-34953				No	3504.218 1		
	5	EX5R:2P-101 WBOX350X350-25/25		0-35-152-34951				No	4980.533 1		
	4	EX4R:2P-101 WBOX350X350-28/28		0-35-152-34949				No	5788.235 1		
	3	EX3R:2P-101 WBOX350X350-16/16		0-35-152-34947				No	3403.162 1		
	2	EX2R:2P-101 WBOX350X350-20/20		0-35-152-34945				No	3832.924 1		
	1	EX1R:2P-101 WBOX350X350-20/20		0-35-152-34943				No	3874.313 1		

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014
355-052

	NAME	SIGNATURE	DATE
DRN	KKN		09.01.2025
CHD	MPN		09.01.2025
APPD	RAJIV		10.01.2025

DEPT: ST | CODE: 122 | ALL DIMENSIONS ARE IN MM | PROJECTION | SCALE: NTS | WEIGHT (Kg): 119837.538 | REF TO ASSY / OLD DWG

TITLE: BOM FOR AUXILIARY COLUMN R HS 2ND TIER

DRAWING NO : 0-35-152-34973 | REV 00

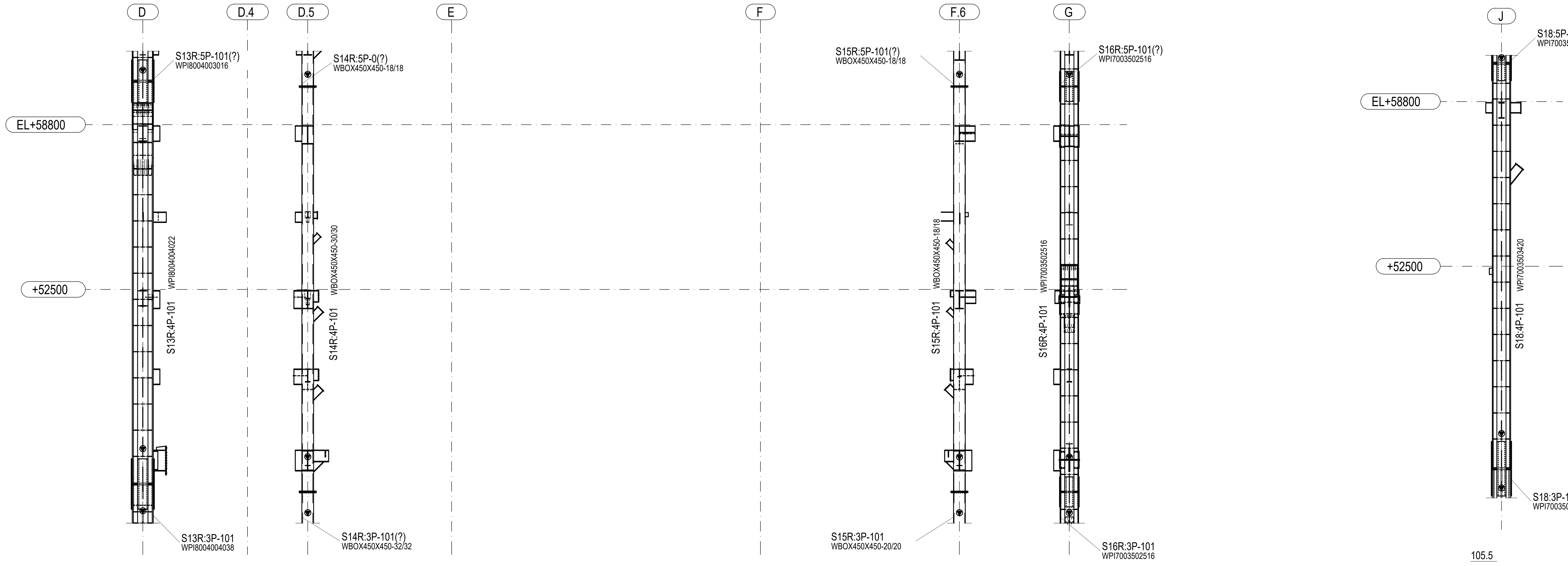
DRAWING NO: 1-35-134-41199

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD. NO TP 023 0299

ASSEMBLY MARK NO	JOINT NO	TOP/ BOTTOM/ REST PLATE	
		BOLT SIZE	QTY
S13L:4P-101	-NA-	HSFG:M24x110	96
S13L:4P-101	-NA-	HSFG:M24x120	196
S13R:4P-101	-NA-	HSFG:M24x100	18
S13R:4P-101	-NA-	HSFG:M24x110	108
S13R:4P-101	-NA-	HSFG:M24x120	196
S14L:4P-101	-NA-	HSFG:M24x70	18
S14L:4P-101	-NA-	HSFG:M24x100	24
S14R:4P-101	-NA-	HSFG:M24x70	18
S14R:4P-101	-NA-	HSFG:M24x100	24
S15L:4P-101	-NA-	HSFG:M24x60	4
S15L:4P-101	-NA-	HSFG:M24x70	20
S15L:4P-101	-NA-	HSFG:M24x90	24
S15R:4P-101	-NA-	HSFG:M24x60	4
S15R:4P-101	-NA-	HSFG:M24x70	20
S15R:4P-101	-NA-	HSFG:M24x90	24
S16L:4P-101	-NA-	HSFG:M24x60	4
S16L:4P-101	-NA-	HSFG:M24x70	2
S16L:4P-101	-NA-	HSFG:M24x80	16
S16L:4P-101	-NA-	HSFG:M24x90	116
S16L:4P-101	-NA-	HSFG:M24x130	72
S16R:4P-101	-NA-	HSFG:M24x70	2
S16R:4P-101	-NA-	HSFG:M24x80	16
S16R:4P-101	-NA-	HSFG:M24x90	116
S16R:4P-101	-NA-	HSFG:M24x130	72
S18:4P-101	-NA-	HSFG:M24x70	8
S18:4P-101	-NA-	HSFG:M24x110	104
S18:4P-101	-NA-	HSFG:M24x120	4
S18:4P-101	-NA-	HSFG:M24x130	104

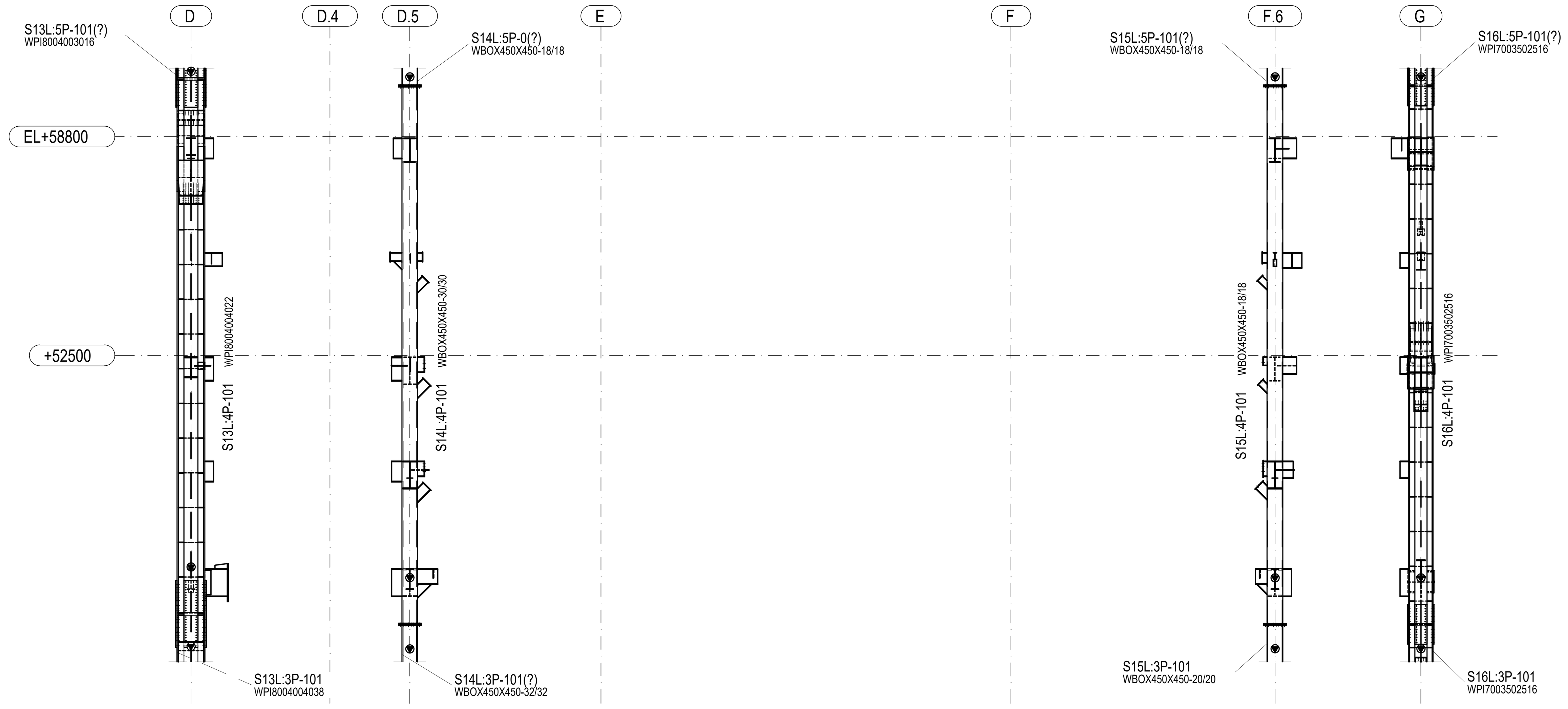
BOLT SUMMARY

SL NO	BOLT SIZE & 1"WASHER"	QTY
1	HSFG:M24x60	12
2	HSFG:M24x70	88
3	HSFG:M24x80	32
4	HSFG:M24x90	280
5	HSFG:M24x100	66
6	HSFG:M24x110	308
7	HSFG:M24x120	396
8	HSFG:M24x130	248
9	TOTAL	1430



GRID @ 105

105.5



GRID @ 106

LEGEND:-
1) WBOX-WELDED BOX COLUMN
2) WPI-WELDED PLUE-I COLUMN
3) MBL-MAIN BRACED LEVEL
4) TOS-TOP OF STEEL
5) EJ-ERECTION JOINT
6) BOBP-BOTTOM OF BASE PLATE

NOTES :-
1.THIS DRAWING SHALL BE READ ALONG WITH DWGS.NO : 0-35-181-34719 TO 0-35-181-34725
2. PUNCH MARK TO BE DONE IN DUS WHERE MARK HAS BEEN SHOWN IN THE FABRICATION DRAWING AT SHOP.
3. DURING ERECTION AT SITE, ORIENTATION OF MEMBERS SHALL BE DECIDED BASED ON PUNCH MARKS SHOWN IN THIS DRAWING.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	9	S18:4P-101 WPI7003503420		0-35-134-32213				No	10363.462 / 1		
	8	S16R:4P-101 WPI7003502516		0-35-134-32211				No	10677.463 / 1		
	7	S16L:4P-101 WPI7003502516		0-35-134-32209				No	10718.185 / 1		
	6	S15R:4P-101 WBOX450X450-18/18		0-35-134-32207				No	4779.511 / 1		
	5	S15L:4P-101 WBOX450X450-18/18		0-35-134-32205				No	4746.298 / 1		
	4	S14R:4P-101 WBOX450X450-30/30		0-35-134-34713				No	7185.574 / 1		
	3	S14L:4P-101 WBOX450X450-30/30		0-35-134-34711				No	7175.857 / 1		
	2	S13R:4P-101 WPI8004004022		0-35-134-32199				No	15298.866 / 1		
	1	S13L:4P-101 WPI8004004022		0-35-134-32197				No	15269.618 / 1		

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

355-052

	NAME	SIGNATURE	DATE
DRN	NSB		07.01.2025
CHD	ASD/ PSL		07.01.2025
APPD	VSRK		07.01.2025

DEPT ST | CODE 122 | ALL DIMENSIONS ARE IN MM | PROJECTION | SCALE NTS | WEIGHT (Kg) 86214.835 | REF TO ASSY / OLD DWG

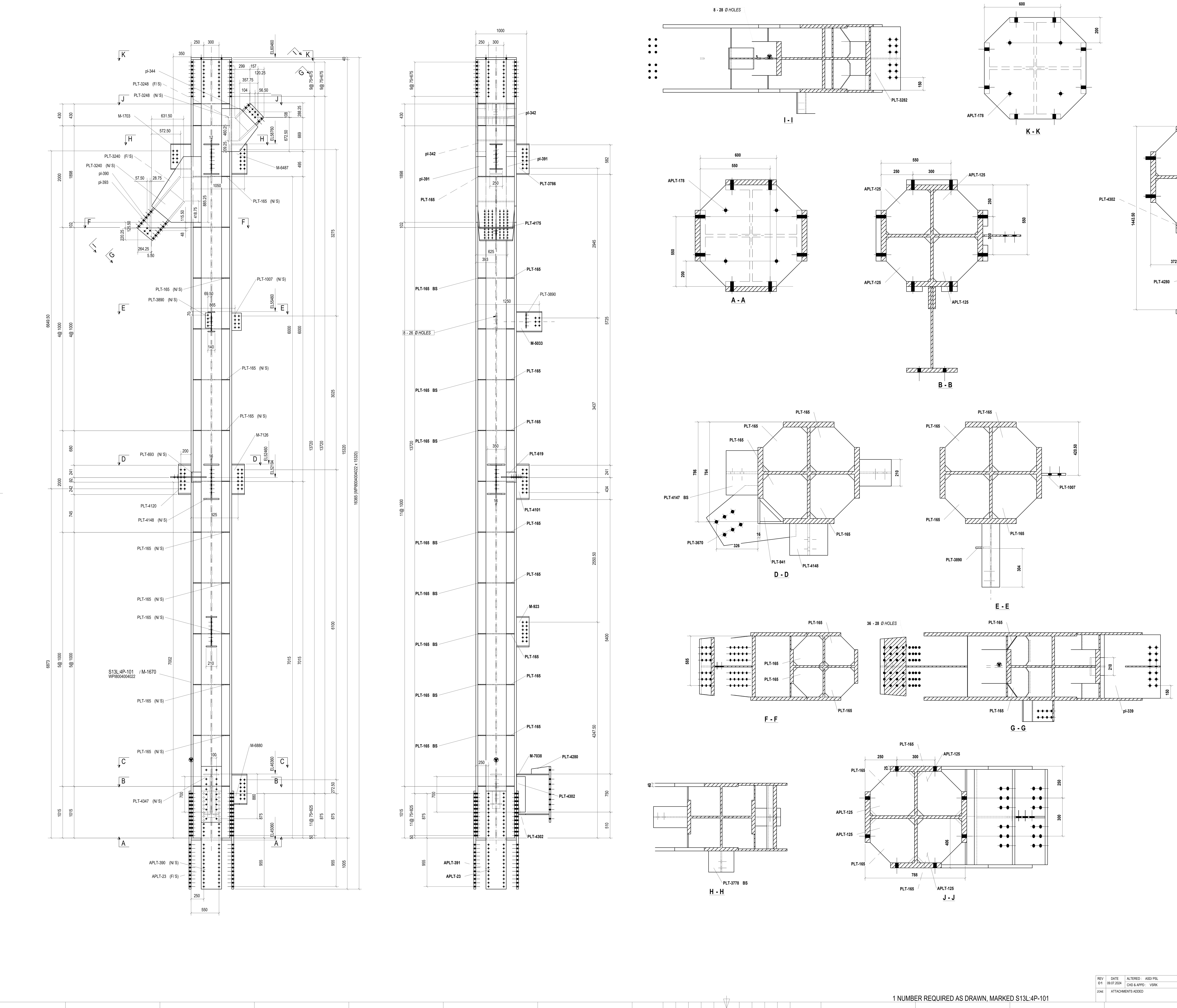
TITLE
MIDDLE COLUMNS - TIER-4

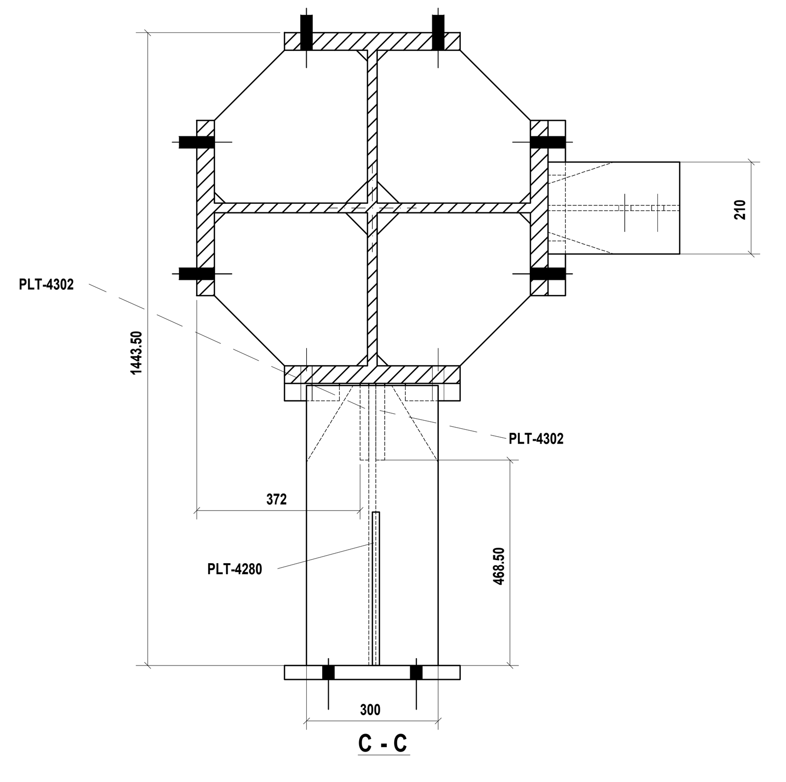
DRAWING NO : 1-35-134-41199

REV 00

0-35-134-32197 DRAWING NO

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD. NO TP 022 0299





NOTES:-

1) BOLT HOLE LOCATION DIMENSIONS AND BOLT HOLE PITCH DIMENSIONS ARE CRITICAL TO QUALITY.
2) FOR BOM REFER DWG. NO. 0-35-134-38926
3) FOR PRODUCTION NOTES REFER DWG. NO. 3-35-110-07658.
4) FOR WPI AND BOX COLUMN MFG. REFER DWG NO. 0-35-110-16844 & 0-35-110-16890
5) FOR SHT #2, REFER DWG. NO. 0-35-134-32198

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	48	NUT HEX Gr.C M24				4130400024		No	0.110 / 8		
	47	BOLT HEX Gr.C M24x80.0				4122124080		No	0.384 / 8		
	46	C.S SHEET 1.6 800X800				15011076 / IS513 Gr.D		No	8.038 / 2		
	45	PLATE-14 344.0x995.0 pl-393				15-011-262 / IS2062 E350B0		No	37.617 / 1		
	44	PLATE-12 160.0x1293.0 pl-391				15-011-127 / IS2062 E350B0		No	19.490 / 2		
	43	PLATE-28 720.0x1316.0 pl-390				15-011-011 / IS2062 E350B0		No	204.631 / 1		
	42	PLATE-12 344.0x415.0 pl-344				15-011-127 / IS2062 E350B0		No	13.448 / 1		
	41	PLATE-12 175.0x844.0 pl-342				15-011-127 / IS2062 E350B0		No	13.918 / 2		
	40	PLATE-28 663.0x750.0 pl-339				15-011-011 / IS2062 E350B0		No	109.336 / 1		
	39	PLATE-32 400.0x1100.0 PLT-4347				15-211-006 / IS2062 E250BR		No	110.528 / 1		
	38	PLATE-20 175.0x700.0 PLT-4302				15-011-218 / IS2062 E250BR		No	19.232 / 2		
	37	PLATE-16 150.0x350.0 PLT-4280				15-011-217 / IS2062 E250BR		No	5.495 / 1		
	36	PLATE-28 720.0x995.0 PLT-4175				15-011-011 / IS2062 E350B0		No	153.887 / 1		
	35	PLATE-25 250.0x300.0 PLT-4148				15-211-004 / IS2062 E250BR		No	14.719 / 2		
	34	PLATE-25 250.0x350.0 PLT-4147				15-211-004 / IS2062 E250BR		No	17.172 / 2		
	33	PLATE-16 250.0x550.0 PLT-4120				15-011-217 / IS2062 E250BR		No	17.270 / 1		
	32	PLATE-16 250.0x650.0 PLT-4101				15-011-217 / IS2062 E250BR		No	20.410 / 1		
	31	PLATE-12 115.0x300.0 PLT-3890				15-211-003 / IS2062 E250BR		No	3.250 / 1		
	30	PLATE-12 250.0x564.0 PLT-3786				15-211-003 / IS2062 E250BR		No	13.282 / 1		
	29	PLATE-18 250.0x300.0 PLT-3778				15-011-221 / IS2062 E250BR		No	10.597 / 2		
	28	PLATE-16 473.0x706.0 PLT-3670				15-011-217 / IS2062 E250BR		No	21.259 / 1		
	27	PLATE-28 415.0x750.0 PLT-3282				15-011-011 / IS2062 E350B0		No	68.413 / 1		
	26	PLATE-25 716.0x844.0 PLT-3248				15-011-009 / IS2062 E350B0		No	88.956 / 2		
	25	PLATE-40 978.0x1293.0 PLT-3240				15-011-028 / IS2062 E350B0		No	281.850 / 2		
	24	PLATE-16 190.0x345.0 PLT-1007				15-011-217 / IS2062 E250BR		No	8.233 / 1		
	23	PLATE-16 168.0x168.0 PLT-941				15-011-217 / IS2062 E250BR		No	1.772 / 1		
	22	PLATE-16 184.0x200.0 PLT-693				15-011-217 / IS2062 E250BR		No	4.622 / 1		
	21	PLATE-16 200.0x200.0 PLT-619				15-011-217 / IS2062 E250BR		No	5.024 / 1		
	20	PLATE-10 349.0x349.0 PLT-165				15-211-002 / IS2062 E250BR		No	8.262 / 52		
	19	ISMB600 250 M-7126				15-009-017 / IS2062 E250A		No	30.750 / 1		
	18	PLATE-16 768x638 M-7038xWEB				15-011-217 / IS2062 E250BR		No	61.590 / 1		
	17	ISMB600 300 M-6880				15-009-017 / IS2062 E250A		No	36.900 / 1		
	16	ISMB600 300 M-6487				15-009-017 / IS2062 E250A		No	36.900 / 1		
	15	ISMB400 500 M-5033				15-009-025 / IS2062 E250A		No	30.800 / 1		
	14	PLATE-12 472x400 M-1703xWEB				15-211-003 / IS2062 E250BR		No	17.785 / 1		
	13	PLATE-22 720X15320 M-1670xIWEB				15-011-089 / IS2062 E350B0		No	1904.950 / 1		
	12	ISMB600 250 M-923				15-009-017 / IS2062 E250A		No	30.750 / 1		
	11	PLATE-40 400.0x1930.0 APLT-391				15-011-028 / IS2062 E350B0		No	226.201 / 1		
	10	PLATE-40 400.0x1930.0 APLT-390				15-011-028 / IS2062 E350B0		No	217.963 / 1		
	9	PLATE-40 800.0x800.0 APLT-178				15-011-028 / IS2062 E350B0		No	175.840 / 2		
	8	PLATE-10 349.0x349.0 APLT-125				15-211-002 / IS2062 E250BR		No	8.409 / 8		
	7	PLATE-40 400.0x1930.0 APLT-23				15-011-028 / IS2062 E350B0		No	242.408 / 2		
	6	PLATE-16 300X638 M-7038xTFL				15-011-217 / IS2062 E250BR		No	24.059 / 1		
	5	PLATE-14 250X400 M-1703xTFL				15-211-021 / IS2062 E250BR		No	10.990 / 1		
	4	PLATE-22 349X15320 M-1670xTWEB				15-011-089 / IS2062 E350B0		No	923.372 / 2		
	3	PLATE-16 300X638 M-7038xBFL				15-011-217 / IS2062 E250BR		No	24.059 / 1		
	2	PLATE-14 250X400 M-1703xBFL				15-011-021 / IS2062 E250BR		No	10.990 / 1		
	1	PLATE-40 400X15320 M-1670xFL				15-011-028 / IS2062 E350B0		No	1924.192 / 4		

REV	DATE	ALTERED : ASD/ PSL
01	09.07.2024	CHD & APPD : VSRK
ZONE		ATTACHMENTS ADDED

1 NUMBER REQUIRED AS DRAWN, MARKED S13L:4P-101

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014
355-052

	NAME	SIGNATURE	DATE
DRN	PACHAIMAL S		15.04.2024
CHD	MENAGA V		16.04.2024
APPD	YUVARAJ S		17.04.2024

DEPT ST | CODE 122 | ALL DIMENSIONS ARE IN MM | PROJECTION | SCALE NTS | WEIGHT (Kg) 15290.782 | REF TO ASSY / OLD DWG

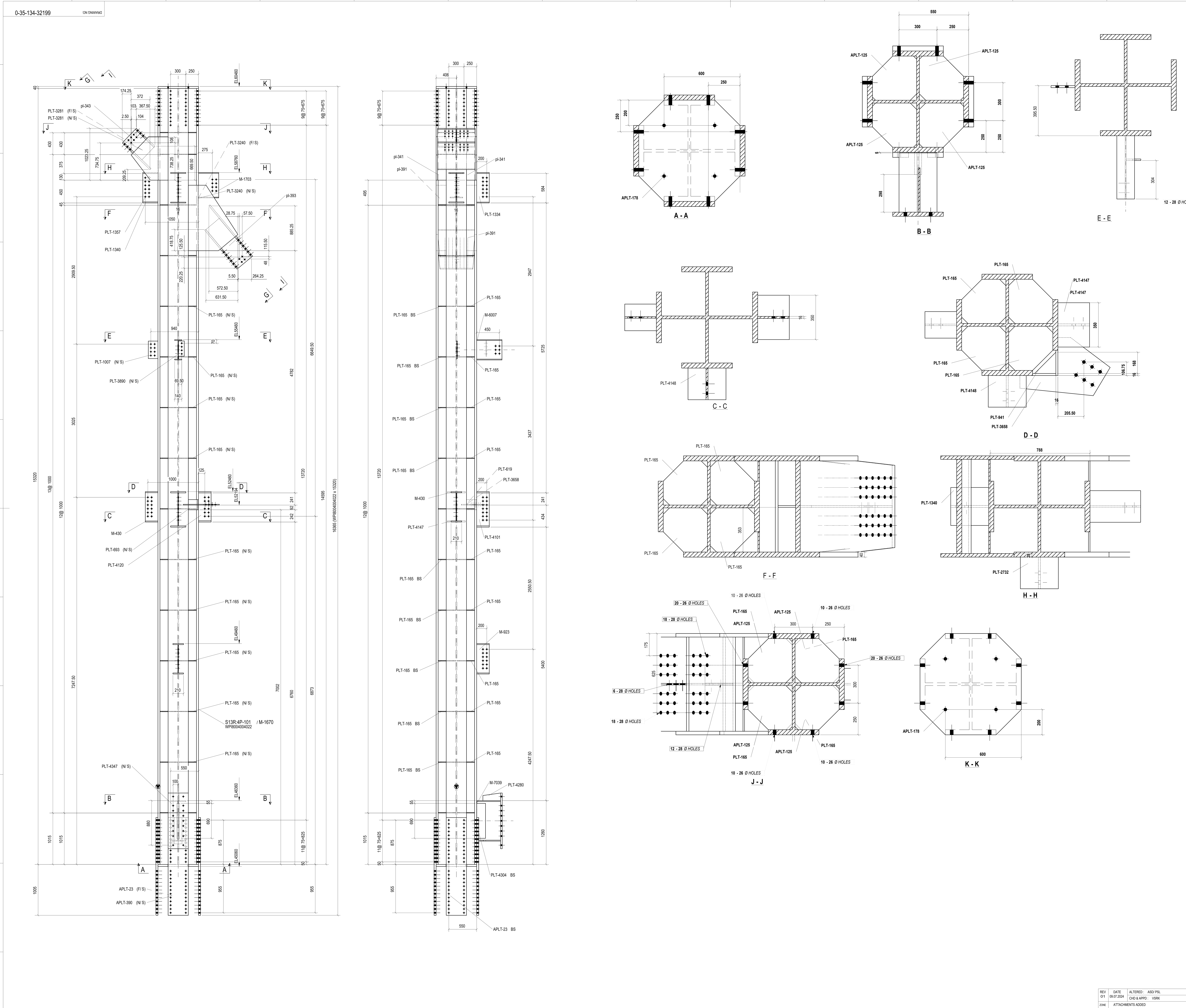
TITLE S13L:4P-101 # 1

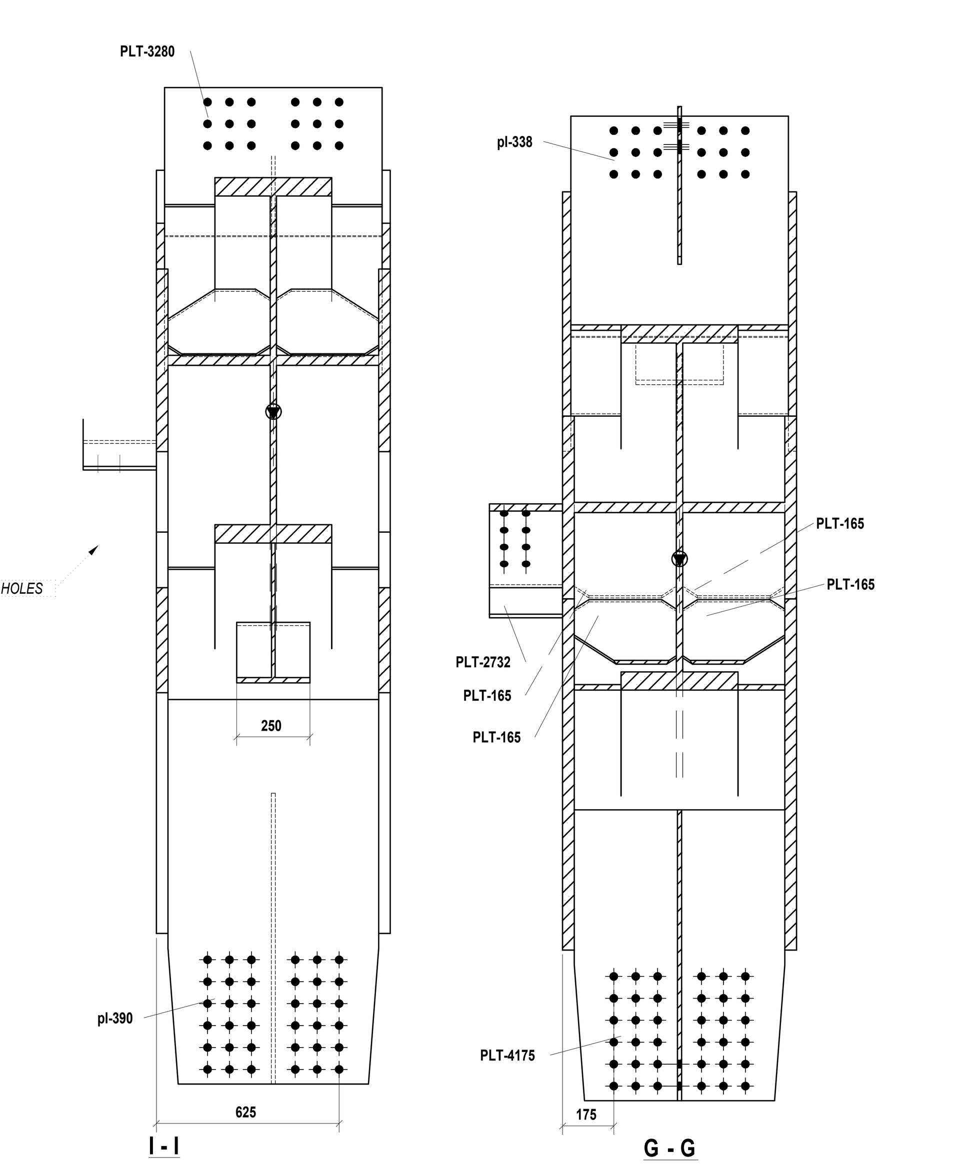
DRAWING NO : 0-35-134-32197

REV 01

CORPORATE DRG ID:TP-DG-0-35-134-32197/01

0-35-134-32199 DRAWING NO





FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO.TP 023 0299

NOTES:-

1) BOLT HOLE LOCATION DIMENSIONS AND BOLT HOLE PITCH DIMENSIONS ARE CRITICAL TO QUALITY.
2) FOR BOM REFER DWG. NO. 0-35-134-38926
3) FOR PRODUCTION NOTES REFER DWG. NO. 3-35-110-07658.
4) FOR WPI AND BOX COLUMN MFG. REFER DWG NO. 0-35-110-16844 & 0-35-110-16890
5) FOR SHT #2, REFER DWG. NO. 0-35-134-32200

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	47	NUT HEX Gr.C M24				4130400024		No	0.110 / 8		
	46	BOLT HEX Gr.C M24x80.0				4122124080		No	0.384 / 8		
	45	C.S SHEET 1.6 800X800				15011076 / IS513 Gr.D		No	8.038 / 2		
	44	PLATE-14 344.0x995.0 pl-393				15-011-262 / IS2062 E350B0		No	37.617 / 1		
	43	PLATE-12 160.0x1293.0 pl-391				15-011-127 / IS2062 E350B0		No	19.490 / 2		
	42	PLATE-28 720.0x1316.0 pl-390				15-011-011 / IS2062 E350B0		No	204.631 / 1		
	41	PLATE-12 344.0x510.0 pl-343				15-011-127 / IS2062 E350B0		No	16.526 / 1		
	40	PLATE-12 172.0x858.0 pl-341				15-011-127 / IS2062 E350B0		No	13.904 / 2		
	39	PLATE-28 744.0x758.0 pl-338				15-011-011 / IS2062 E350B0		No	123.996 / 1		
	38	PLATE-32 400.0x1100.0 PLT-4347				15-211-006 / IS2062 E250BR		No	110.528 / 1		
	37	PLATE-20 175.0x690.0 PLT-4304				15-011-218 / IS2062 E250BR		No	18.958 / 2		
	36	PLATE-16 150.0x350.0 PLT-4280				15-011-217 / IS2062 E250BR		No	5.495 / 1		
	35	PLATE-28 720.0x995.0 PLT-4175				15-011-011 / IS2062 E350B0		No	153.887 / 1		
	34	PLATE-25 250.0x300.0 PLT-4148				15-211-004 / IS2062 E250BR		No	14.719 / 2		
	33	PLATE-25 250.0x350.0 PLT-4147				15-211-004 / IS2062 E250BR		No	17.172 / 2		
	32	PLATE-16 250.0x550.0 PLT-4120				15-011-217 / IS2062 E250BR		No	17.270 / 1		
	31	PLATE-16 250.0x650.0 PLT-4101				15-011-217 / IS2062 E250BR		No	20.410 / 1		
	30	PLATE-12 115.0x300.0 PLT-3890				15-211-003 / IS2062 E250BR		No	3.250 / 1		
	29	PLATE-16 713.0x459.0 PLT-3658				15-011-217 / IS2062 E250BR		No	21.141 / 1		
	28	PLATE-28 730.0x858.0 PLT-3281				15-011-011 / IS2062 E350B0		No	103.185 / 2		
	27	PLATE-28 510.0x744.0 PLT-3280				15-011-011 / IS2062 E350B0		No	83.401 / 1		
	26	PLATE-40 978.0x1293.0 PLT-3240				15-011-028 / IS2062 E350B0		No	281.850 / 2		
	25	PLATE-16 250.0x300.0 PLT-2732				15-011-217 / IS2062 E250BR		No	9.420 / 2		
	24	PLATE-16 300.0x560.0 PLT-1357				15-011-217 / IS2062 E250BR		No	21.101 / 1		
	23	PLATE-20 300.0x300.0 PLT-1340				15-011-218 / IS2062 E250BR		No	14.130 / 2		
	22	PLATE-16 250.0x568.0 PLT-1334				15-011-217 / IS2062 E250BR		No	17.835 / 1		
	21	PLATE-16 190.0x345.0 PLT-1007				15-011-217 / IS2062 E250BR		No	8.233 / 1		
	20	PLATE-16 168.0x168.0 PLT-941				15-011-217 / IS2062 E250BR		No	1.772 / 1		
	19	PLATE-16 184.0x200.0 PLT-693				15-011-217 / IS2062 E250BR		No	4.622 / 1		
	18	PLATE-16 200.0x200.0 PLT-619				15-011-217 / IS2062 E250BR		No	5.024 / 1		
	17	PLATE-10 349.0x349.0 PLT-165				15-211-002 / IS2062 E250BR		No	8.262 / 52		
	16	PLATE-16 764x468 M-7039xWEB				15-011-217 / IS2062 E250BR		No	44.909 / 1		
	15	ISMB400 500 M-6007				15-009-025 / IS2062 E250A		No	30.800 / 1		
	14	PLATE-12 472x400 M-1703xWEB				15-211-003 / IS2062 E250BR		No	17.785 / 1		
	13	PLATE-22 720X15320 M-1670xIWEB				15-011-089 / IS2062 E350B0		No	1904.950 / 1		
	12	ISMB600 250 M-923				15-009-017 / IS2062 E250A		No	30.750 / 1		
	11	ISMB600 250 M-430				15-009-017 / IS2062 E250A		No	30.750 / 1		
	10	PLATE-40 400.0x1930.0 APLT-390				15-011-028 / IS2062 E350B0		No	217.963 / 1		
	9	PLATE-40 800.0x800.0 APLT-178				15-011-028 / IS2062 E350B0		No	175.840 / 2		
	8	PLATE-10 349.0x349.0 APLT-125				15-211-002 / IS2062 E250BR		No	8.409 / 8		
	7	PLATE-40 400.0x1930.0 APLT-23				15-011-028 / IS2062 E350B0		No	242.408 / 3		
	6	PLATE-18 300X468 M-7039xTFL				15-011-221 / IS2062 E250BR		No	19.839 / 1		
	5	PLATE-14 250X400 M-1703xTFL				15-211-021 / IS2062 E250BR		No	10.990 / 1		
	4	PLATE-22 349X15320 M-1670xTWEB				15-011-089 / IS2062 E350B0		No	923.372 / 2		
	3	PLATE-18 300X468 M-7039xBFL				15-011-221 / IS2062 E250BR		No	19.839 / 1		
	2	PLATE-14 250X400 M-1703xBFL				15-011-021 / IS2062 E250BR		No	10.990 / 1		
	1	PLATE-40 400X15320 M-1670xFL				15-011-028 / IS2062 E350B0		No	1924.192 / 4		

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014
355-052

	NAME	SIGNATURE	DATE
DRN	PACHAIMAL S		15.04.2024
CHD	MENAGA V		16.04.2024
APPD	YUVARAJ S		17.04.2024

DEPT	CODE	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
ST	122			NTS	15320.030	

TITLE: S13R:4P-101 # 1
DRAWING NO : 0-35-134-32199
REV: 01

REV	DATE	
01	09.07.2024	ALTERED : ASD/ PSL CHD & APPD : VSRK
ZONE	ATTACHMENTS ADDED	

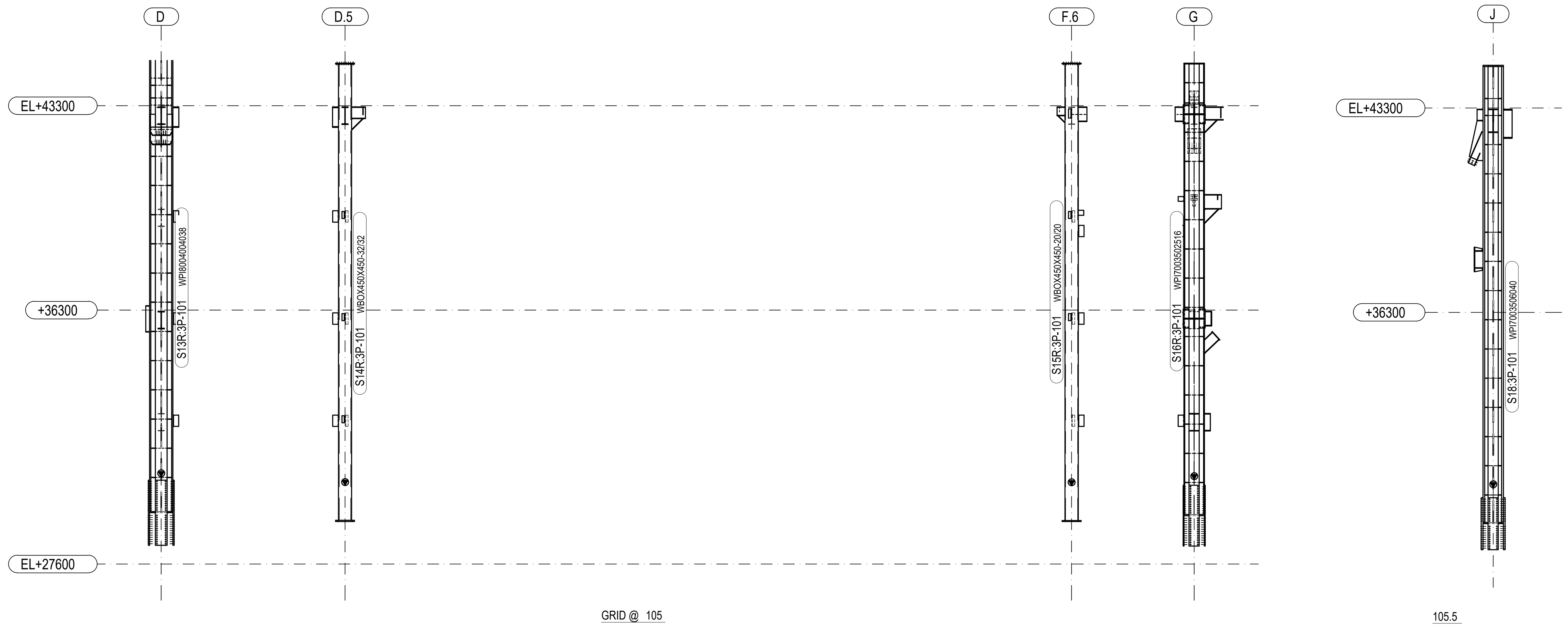
1 NUMBER REQUIRED AS DRAWN, MARKED S13R:4P-101

DRAWING NO: 1-35-133-41207

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD. NO TP 023 0299

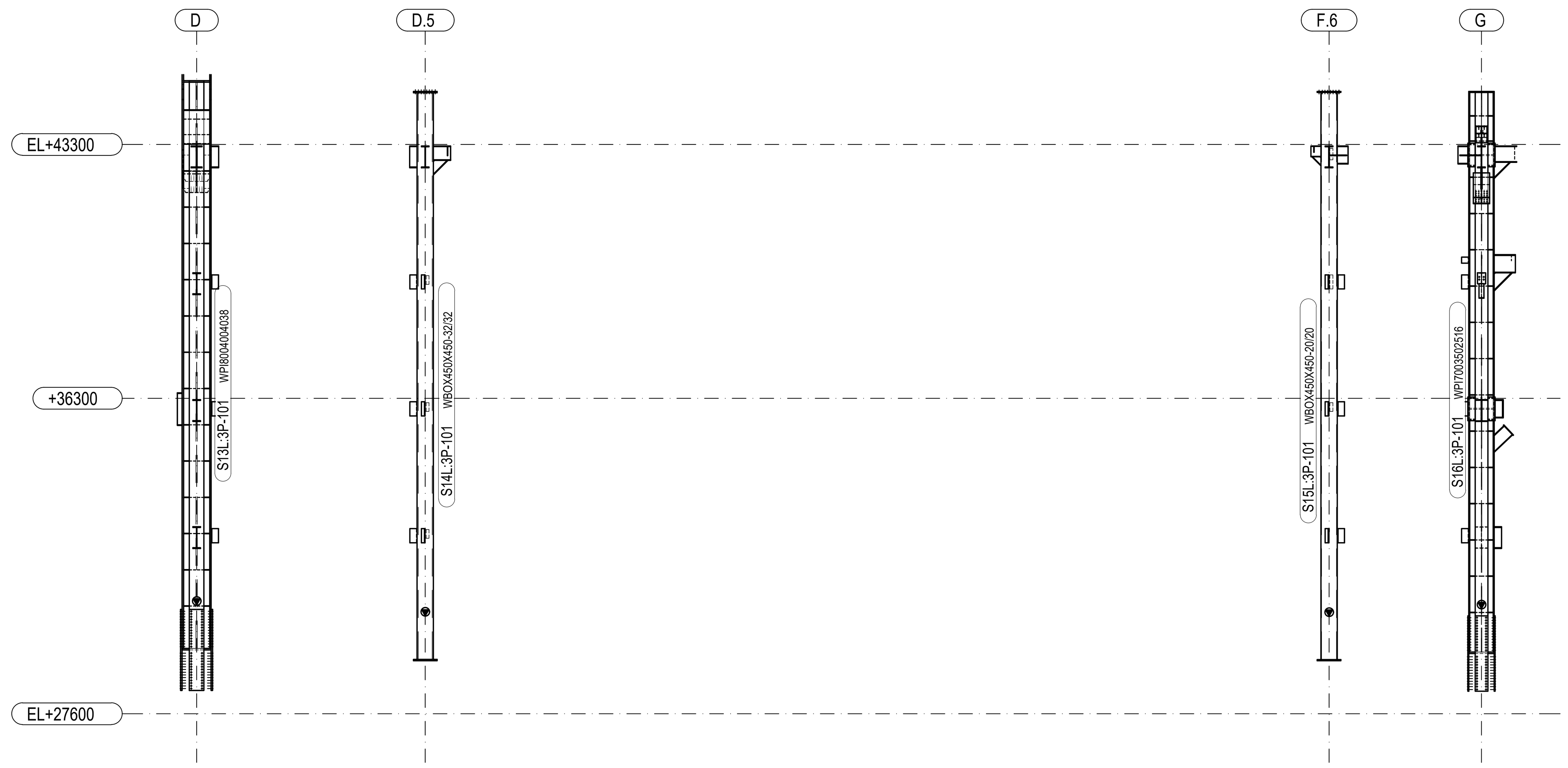
ASSEMBLY MARK NO	JOINT NO	TOP/ BOTTOM/ REST PLATE	
		BOLT SIZE	QTY
S13L:3P-101	-NA-	HSFG:M24x90	24
S13L:3P-101	-NA-	HSFG:M24x120	116
S13L:3P-101	-NA-	HSFG:M24x140	112
S13R:3P-101	-NA-	HSFG:M24x90	24
S13R:3P-101	-NA-	HSFG:M24x120	116
S13R:3P-101	-NA-	HSFG:M24x140	112
S14L:3P-101	-NA-	HSFG:M24x100	24
S14R:3P-101	-NA-	HSFG:M24x100	24
S15L:3P-101	-NA-	HSFG:M24x90	24
S15R:3P-101	-NA-	HSFG:M24x90	24
S16L:3P-101	-NA-	HSFG:M24x60	4
S16L:3P-101	-NA-	HSFG:M24x70	12
S16L:3P-101	-NA-	HSFG:M24x90	104
S16L:3P-101	-NA-	HSFG:M24x100	24
S16L:3P-101	-NA-	HSFG:M24x120	4
S16L:3P-101	-NA-	HSFG:M24x130	104
S16R:3P-101	-NA-	HSFG:M24x60	4
S16R:3P-101	-NA-	HSFG:M24x70	12
S16R:3P-101	-NA-	HSFG:M24x90	104
S16R:3P-101	-NA-	HSFG:M24x100	24
S16R:3P-101	-NA-	HSFG:M24x120	4
S16R:3P-101	-NA-	HSFG:M24x130	104
S18:3P-101	-NA-	HSFG:M24x70	10
S18:3P-101	-NA-	HSFG:M24x120	4
S18:3P-101	-NA-	HSFG:M24x160	176

BOLT SUMMARY		
SL NO	BOLT SIZE & 1"WASHER"	QTY
1	HSFG:M24x60	8
2	HSFG:M24x70	34
3	HSFG:M24x90	304
4	HSFG:M24x100	96
5	HSFG:M24x120	244
6	HSFG:M24x130	208
7	HSFG:M24x140	224
8	HSFG:M24x160	176
9	TOTAL	1294



GRID @ 105

105.5



GRID @ 106

LEGEND:-
1) WBOX-WELDED BOX COLUMN
2) WPI-WELDED PLUE-I COLUMN
3) MBL-MAIN BRACED LEVEL
4) TOS-TOP OF STEEL
5) EJ-ERECTION JOINT
6) BOBP-BOTTOM OF BASE PLATE

NOTES :-
1.THIS DRAWING SHALL BE READ ALONG WITH DWGS.NO : 035-181-31996 TO 0-35-181-32001
2. PUNCH MARK TO BE DONE IN DUS WHERE MARK HAS BEEN SHOWN IN THE FABRICATION DRAWING AT SHOP.
3. DURING ERECTION AT SITE, ORIENTATION OF MEMBERS SHALL BE DECIDED BASED ON PUNCH MARKS SHOWN IN THIS DRAWING.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO / VAR NO	MATERIAL CODE / MATERIAL SPECN	A/C/P	UNIT / DI	UNIT WEIGHT / QUANTITY	GS	ZONE
	9	S18:3P-101 WPI7003506040		0-35-133-34894				No	17942.705 / 1		
	8	S16R:3P-101 WPI7003502516		0-35-133-34892				No	9324.834 / 1		
	7	S16L:3P-101 WPI7003502516		0-35-133-34890				No	9368.762 / 1		
	6	S15R:3P-101 WBOX450X450-20/20		0-35-133-34888				No	4710.845 / 1		
	5	S15L:3P-101 WBOX450X450-20/20		0-35-133-34886				No	4716.713 / 1		
	4	S14R:3P-101 WBOX450X450-32/32		0-35-133-34884				No	7148.780 / 1		
	3	S14L:3P-101 WBOX450X450-32/32		0-35-133-34882				No	7135.050 / 1		
	2	S13R:3P-101 WPI8004004038		0-35-133-34880				No	18810.118 / 1		
	1	S13L:3P-101 WPI8004004038		0-35-133-34878				No	18810.329 / 1		

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014
355-052

	NAME	SIGNATURE	DATE
DRN	CHAKRA		09.01.2025
CHD	ABHI		09.01.2025
APPD	MUTHU		09.01.2025

DEPT		PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
ST	ALL DIMENSIONS ARE IN MM		NTS	97968.136	
CODE 122					

TITLE: MIDDLE COLUMNS - TIER 3 - BOM

DRAWING NO : 1-35-133-41207

REV 00

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
35	131	S13L:1P:-101 WBOX600X600-40/40	NO	1.000	15,423.679	14,828	1,600	2,887
35	131	S13R:1P:-101 WBOX600X600-40/40	NO	1.000	15,395.850	14,828	1,600	2,887
35	131	S14L:1P:-101 WBOX600X600-25/25	NO	1.000	7,874.332	14,268	1,200	1,295
35	131	S14R:1P:-101 WBOX600X600-25/25	NO	1.000	7,820.261	14,268	1,200	1,295
35	131	S15L:1P:-101 WBOX600X600-20/20	NO	1.000	6,993.153	14,268	1,500	1,500
35	131	S15R:1P:-101 WBOX600X600-20/20	NO	1.000	6,992.984	14,268	1,500	1,500
35	131	S16L:1P:-101 WPI8004002516	NO	1.000	11,763.308	14,768	1,600	2,819
35	131	S16R:1P:-101 WPI8004002516	NO	1.000	11,730.529	14,768	1,600	2,819
35	131	S17L:1P:-101 WBOX450X450-32/32	NO	1.000	8,111.565	14,768	1,169	1,826
35	131	S17R:1P:-101 WBOX450X450-32/32	NO	1.000	8,092.194	14,768	1,100	1,826
35	131	S18:1P:-101 WPI12008003220	NO	1.000	28,822.672	14,918	2,672	3,739
35	134	S13L:4P:-101 WBOX600X600-32/32	NO	1.000	8,906.774	13,500	1,125	1,804
35	134	S13R:4P:-101 WBOX600X600-32/32	NO	1.000	8,886.426	13,500	1,125	1,804
35	134	S14L:4P:-101 WBOX600X600-20/20	NO	1.000	5,863.537	13,500	1,100	1,421
35	134	S14R:4P:-101 WBOX600X600-20/20	NO	1.000	5,863.537	13,500	1,100	1,421
35	134	S15L:4P:-101 WBOX600X600-20/20	NO	1.000	5,654.839	13,500	1,200	1,400
35	134	S15R:4P:-101 WBOX600X600-20/20	NO	1.000	5,654.839	13,500	1,200	1,400
35	134	S16L:4P:-101 WPI8004002016	NO	1.000	9,375.904	14,007	1,450	3,233
35	134	S16R:4P:-101 WPI8004002016	NO	1.000	9,375.904	14,007	1,450	3,233
35	134	S18:4P:-101 WPI12008006332	NO	1.000	32,719.181	13,932	2,000	2,036
35	141	LC1:1P:-101 WBOX400X400-16/16	NO	1.000	4,030.507	15,868	1,045	1,070
35	141	LC2:1P:-101 WBOX400X400-16/16	NO	1.000	4,043.760	15,868	1,045	1,069
35	141	LC3:1P:-101 WBOX400X400-16/16	NO	1.000	4,004.479	15,868	1,045	1,070
35	141	LC4:1P:-101 WBOX400X400-16/16	NO	1.000	4,019.843	15,868	1,062	1,069
35	141	S1L:1P:-101 WBOX600X600-40/40	NO	1.000	13,557.972	14,918	1,500	1,973
35	141	S2L:1P:-101 WPI12008502516	NO	1.000	25,769.945	17,918	2,392	2,456
35	141	S3L:1P:-101 WPI12008503616	NO	1.000	33,930.449	17,918	2,600	2,728
35	141	S4L:1P:-101 WPI12008503616	NO	1.000	33,403.038	17,918	2,600	2,726
35	141	S5L:1P:-101 WPI12008503220	NO	1.000	35,362.590	17,928	2,650	3,229
35	141	S6L:1P:-101 WPI12008502516	NO	1.000	29,169.540	17,618	2,695	3,420
35	142	LC1:2P:-101 WBOX400X400-20/20	NO	1.000	4,619.424	17,100	895	920
35	142	LC2:2P:-101 WBOX400X400-20/20	NO	1.000	4,632.677	17,100	895	993
35	142	LC3:2P:-101 WBOX400X400-20/20	NO	1.000	4,579.118	17,100	900	920
35	142	LC4:2P:-101 WBOX400X400-20/20	NO	1.000	4,592.884	17,100	907	1,062
35	142	S1L:2P:-101 WBOX600X600-25/25	NO	1.000	8,548.958	17,100	1,101	1,645
35	142	S2L:2P:-101 WPI12008502516	NO	1.000	17,653.893	14,532	2,251	2,637
35	142	S3L:2P:-101 WPI12008503220	NO	1.000	21,741.429	14,615	2,173	3,103
35	142	S4L:2P:-101 WPI12008503220	NO	1.000	21,275.147	14,615	1,905	2,499
35	142	S5L:2P:-101 WPI12008503216	NO	1.000	20,772.476	14,607	2,205	2,958
35	142	S6L:2P:-101 WPI12008502516	NO	1.000	18,161.226	14,832	2,630	3,030
35	151	S1R:1P:-101 WBOX600X600-40/40	NO	1.000	13,506.918	14,918	1,500	1,973
35	151	S2R:1P:-101 WPI12008502516	NO	1.000	25,696.042	17,918	2,392	2,456
35	151	S3R:1P:-101 WPI12008503616	NO	1.000	33,856.596	17,918	2,600	2,728
35	151	S4R:1P:-101 WPI12008503616	NO	1.000	33,334.630	17,918	2,600	2,726
35	151	S5R:1P:-101 WPI12008503220	NO	1.000	35,360.462	17,928	2,650	3,229
35	151	S6R:1P:-101 WPI12008502516	NO	1.000	29,180.156	17,618	2,695	3,420
35	152	S1R:2P:-101 WBOX600X600-25/25	NO	1.000	8,524.017	17,100	1,100	1,502
35	152	S2R:2P:-101 WPI12008502516	NO	1.000	17,614.612	14,532	2,251	2,637
35	152	S3R:2P:-101 WPI12008503220	NO	1.000	21,741.429	14,615	2,173	3,103
35	152	S4R:2P:-101 WPI12008503220	NO	1.000	21,311.732	14,615	1,905	2,499
35	152	S5R:2P:-101 WPI12008503216	NO	1.000	20,734.993	14,607	2,205	2,958
35	152	S6R:2P:-101 WPI12008502516	NO	1.000	18,160.347	14,832	2,630	3,030
35	181	S7L:1P:-101 WPI10005002516	NO	1.000	28,742.786	14,448	3,671	3,903
35	181	S7R:1P:-101 WPI10005002516	NO	1.000	28,781.921	14,448	3,671	3,903
35	181	S8L:1P:-101 WPI12006005016	NO	1.000	35,408.409	15,767	2,200	4,371
35	181	S8R:1P:-101 WPI12006005016	NO	1.000	35,331.283	15,767	2,200	4,371
35	181	S9L:1P:-101 WPI12008005020	NO	1.000	37,987.132	15,917	2,600	3,338
35	181	S9R:1P:-101 WPI12008005020	NO	1.000	37,891.391	15,917	2,600	3,338

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
35	181	S10L:1P:-101 WPI13009004016	NO	1.000	36,803.546	14,417	3,389	3,430
35	181	S10R:1P:-101 WPI13009004016	NO	1.000	37,082.641	14,417	3,389	3,430
35	181	S11L:1P:-101 WPI13009003620	NO	1.000	32,784.316	14,417	2,729	3,317
35	181	S11R:1P:-101 WPI13009003620	NO	1.000	32,761.788	14,417	2,729	3,317
35	181	S12L:1P:-101 WPI12008503216	NO	1.000	32,954.599	15,518	2,987	4,345
35	181	S12R:1P:-101 WPI12008503216	NO	1.000	32,971.847	15,518	2,987	4,345
35	132	S13L:2P:-101 WBOX600X600-32/32	NO	1.000	12,247.397	17,400	1,100	2,660
35	132	S13R:2P:-101 WBOX600X600-32/32	NO	1.000	12,214.211	17,400	1,100	2,660
35	132	S14L:2P:-101 WBOX600X600-32/32	NO	1.000	10,537.999	17,600	1,004	1,100
35	132	S14R:2P:-101 WBOX600X600-32/32	NO	1.000	10,513.785	17,600	1,000	1,100
35	132	S15L:2P:-101 WBOX600X600-20/20	NO	1.000	6,865.180	17,600	995	1,000
35	132	S15R:2P:-101 WBOX600X600-20/20	NO	1.000	6,865.180	17,600	995	1,000
35	132	S16L:2P:-101 WPI8004002520	NO	1.000	12,122.519	17,607	1,200	2,411
35	132	S16R:2P:-101 WPI8004002520	NO	1.000	12,193.863	17,607	1,395	2,411
35	132	S17L:2P:-101 WBOX450X450-16/16	NO	1.000	3,534.180	13,532	950	1,491
35	132	S17R:2P:-101 WBOX450X450-16/16	NO	1.000	3,603.923	13,532	1,145	1,491
35	132	S18:2P:-101 WPI12008002520	NO	1.000	21,870.546	17,607	3,102	4,413
35	133	S13L:3P:-101 WBOX600X600-36/36	NO	1.000	10,657.692	14,600	1,605	1,800
35	133	S13R:3P:-101 WBOX600X600-36/36	NO	1.000	10,628.716	14,600	1,605	1,765
35	133	S14L:3P:-101 WBOX600X600-25/25	NO	1.000	8,035.635	14,900	1,544	2,147
35	133	S14R:3P:-101 WBOX600X600-25/25	NO	1.000	7,983.677	14,900	995	2,147
35	133	S15L:3P:-101 WBOX600X600-20/20	NO	1.000	6,729.805	14,900	1,397	2,148
35	133	S15R:3P:-101 WBOX600X600-20/20	NO	1.000	6,729.805	14,900	1,397	2,148
35	133	S16L:3P:-101 WPI8004002016	NO	1.000	9,612.605	15,407	1,402	2,283
35	133	S16R:3P:-101 WPI8004002016	NO	1.000	9,538.906	15,407	1,322	2,283
35	133	S18:3P:-101 WPI12008002520	NO	1.000	19,329.693	15,332	1,610	2,719
35	135	S13L:5P:-101 WBOX600X600-20/20	NO	1.000	4,354.407	10,400	1,000	1,200
35	135	S13R:5P:-101 WBOX600X600-20/20	NO	1.000	4,354.407	10,400	1,000	1,200
35	135	S14L:5P:-101 WBOX600X600-20/20	NO	1.000	4,381.128	10,399	1,050	1,370
35	135	S14R:5P:-101 WBOX600X600-20/20	NO	1.000	4,390.349	10,399	1,050	1,445
35	135	S15L:5P:-101 WBOX600X600-20/20	NO	1.000	2,254.881	5,232	997	1,000
35	135	S15R:5P:-101 WBOX600X600-20/20	NO	1.000	2,229.028	5,232	980	1,000
35	135	S16L:5P:-101 WPI8004002016	NO	1.000	3,451.900	5,739	1,197	2,247
35	135	S16R:5P:-101 WPI8004002016	NO	1.000	3,426.047	5,739	1,180	2,247
35	135	S18:5P:-101 WPI12008005616	NO	1.000	21,547.954	11,214	1,741	1,800
35	136	S13L:6P:-101 WBOX600X600-20/20	NO	1.000	7,378.627	15,787	1,000	2,094
35	136	S13R:6P:-101 WBOX600X600-20/20	NO	1.000	7,368.453	15,787	1,000	2,094
35	136	S14L:6P:-101 WBOX600X600-20/20	NO	1.000	5,688.394	13,931	1,000	1,180
35	136	S14R:6P:-101 WBOX600X600-20/20	NO	1.000	5,688.394	13,932	1,000	1,180
35	136	S18:6P:-101 WPI12008005020	NO	1.000	31,315.984	16,065	1,790	3,339
35	137	S13L:7P:-101 WBOX600X600-20/20	NO	1.000	5,303.467	13,076	1,010	1,655
35	137	S13R:7P:-101 WBOX600X600-20/20	NO	1.000	5,306.886	13,076	1,010	1,785
35	137	S18:7P:-101 WPI12008002520	NO	1.000	16,190.387	13,741	2,092	2,695
35	143	LC1:3P:-101 WBOX400X400-16/16	NO	1.000	3,293.994	14,900	895	920
35	143	LC2:3P:-101 WBOX400X400-16/16	NO	1.000	3,307.247	14,900	895	993
35	143	LC3:3P:-101 WBOX400X400-16/16	NO	1.000	3,236.499	14,900	900	920
35	143	LC4:3P:-101 WBOX400X400-16/16	NO	1.000	3,253.067	14,900	907	1,062
35	143	S1L:3P:-101 WBOX600X600-25/25	NO	1.000	7,862.346	14,900	1,701	1,896
35	143	S2L:3P:-101 WPI12008502520	NO	1.000	22,220.945	15,782	2,917	3,307
35	143	S3L:3P:-101 WPI12008503616	NO	1.000	25,528.911	15,857	2,344	2,937
35	143	S4L:3P:-101 WPI12008503220	NO	1.000	25,923.443	15,857	2,813	3,664
35	143	S5L:3P:-101 WPI12008503616	NO	1.000	25,559.586	15,857	2,703	2,817
35	143	S6L:3P:-101 WPI12008503616	NO	1.000	26,092.606	15,782	2,532	3,078
35	144	LC1:4P:-101 WBOX400X400-16/16	NO	1.000	3,023.904	13,372	1,935	2,191
35	144	LC2:4P:-101 WBOX400X400-16/16	NO	1.000	3,037.157	13,371	2,269	2,607
35	144	LC3:4P:-101 WBOX400X400-16/16	NO	1.000	2,989.909	13,371	2,107	2,266
35	144	LC4:4P:-101 WBOX400X400-16/16	NO	1.000	3,004.827	13,371	2,139	3,462
35	144	S1L:4P:-101 WBOX600X600-25/25	NO	1.000	7,435.666	13,371	2,605	2,759

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
35	144	S2L:4P:-101 WBOX600X600-32/32	NO	1.000	9,809.137	13,500	895	920
35	144	S3L:4P:-101 WBOX600X600-32/32	NO	1.000	10,222.624	13,500	895	993
35	144	S4L:4P:-101 WBOX600X600-25/25	NO	1.000	8,135.726	13,500	900	920
35	144	S5L:4P:-101 WBOX600X600-25/25	NO	1.000	8,562.608	13,500	907	1,062
35	144	S6L:4P:-101 WBOX600X600-63/63	NO	1.000	16,791.783	13,500	1,103	1,765
35	145	LC1:5P:-101 WBOX400X400-16/16	NO	1.000	2,364.774	10,399	895	920
35	145	LC2:5P:-101 WBOX400X400-16/16	NO	1.000	2,378.027	10,400	895	993
35	145	LC3:5P:-101 WBOX400X400-16/16	NO	1.000	2,342.529	10,400	900	920
35	145	LC4:5P:-101 WBOX400X400-16/16	NO	1.000	2,358.023	10,400	907	1,062
35	145	S1L:5P:-101 WBOX600X600-20/20	NO	1.000	4,455.740	10,399	1,200	1,343
35	145	S2L:5P:-101 WBOX600X600-20/20	NO	1.000	4,628.021	10,077	1,400	1,600
35	145	S3L:5P:-101 WBOX600X600-20/20	NO	1.000	4,553.584	10,078	1,200	1,800
35	145	S4L:5P:-101 WBOX600X600-20/20	NO	1.000	4,756.350	10,078	1,200	1,987
35	145	S5L:5P:-101 WBOX600X600-20/20	NO	1.000	5,417.734	10,078	1,200	2,758
35	145	S6L:5P:-101 WBOX600X600-20/20	NO	1.000	4,245.129	10,078	1,000	1,200
35	146	LC1:6P:-101 WBOX400X400-16/16	NO	1.000	3,390.454	15,400	895	920
35	146	LC2:6P:-101 WBOX400X400-16/16	NO	1.000	3,403.707	15,400	895	993
35	146	LC3:6P:-101 WBOX400X400-16/16	NO	1.000	3,344.709	15,400	900	920
35	146	LC4:6P:-101 WBOX400X400-16/16	NO	1.000	3,359.627	15,400	907	1,062
35	146	S1L:6P:-101 WBOX600X600-20/20	NO	1.000	6,363.607	15,400	1,101	1,549
35	146	S2L:6P:-101 WBOX600X600-20/20	NO	1.000	6,907.022	15,400	1,127	2,149
35	146	S3L:6P:-101 WBOX600X600-25/25	NO	1.000	9,068.194	15,400	2,186	2,222
35	146	S4L:6P:-101 WBOX600X600-20/20	NO	1.000	7,361.437	15,400	1,826	2,101
35	146	S5L:6P:-101 WBOX600X600-20/20	NO	1.000	7,400.412	15,400	1,875	2,738
35	146	S6L:6P:-101 WBOX600X600-20/20	NO	1.000	7,267.916	15,400	1,962	2,059
35	147	LC1:7P:-101 WBOX400X400-16/16	NO	1.000	2,689.101	12,108	895	920
35	147	LC2:7P:-101 WBOX400X400-16/16	NO	1.000	2,711.574	12,108	895	993
35	147	LC3:7P:-101 WBOX400X400-16/16	NO	1.000	2,673.265	12,108	920	965
35	147	LC4:7P:-101 WBOX400X400-16/16	NO	1.000	2,696.572	12,108	907	1,062
35	147	S1L:7P:-101 WBOX600X600-20/20	NO	1.000	5,133.866	12,508	1,299	1,350
35	147	S2L:7P:-101 WBOX600X600-20/20	NO	1.000	5,532.232	12,908	1,749	1,801
35	147	S3L:7P:-101 WBOX600X600-20/20	NO	1.000	5,354.575	13,326	1,300	1,749
35	147	S4L:7P:-101 WBOX600X600-20/20	NO	1.000	5,631.250	13,026	1,749	1,808
35	147	S5L:7P:-101 WBOX600X600-20/20	NO	1.000	5,419.733	12,826	1,300	2,364
35	147	S6L:7P:-101 WBOX600X600-20/20	NO	1.000	5,728.924	12,426	1,932	2,094
35	153	S1R:3P:-101 WBOX600X600-25/25	NO	1.000	7,727.762	14,900	1,499	1,753
35	153	S2R:3P:-102 WPI12008502520	NO	1.000	22,126.109	15,782	2,729	3,307
35	153	S3R:3P:-101 WPI12008503616	NO	1.000	25,545.754	15,857	2,344	2,937
35	153	S4R:3P:-101 WPI12008503220	NO	1.000	25,866.822	15,857	2,813	3,664
35	153	S5R:3P:-101 WPI12008503616	NO	1.000	25,533.922	15,857	2,703	2,817
35	153	S6R:3P:-101 WPI12008503616	NO	1.000	26,077.611	15,782	2,532	3,078
35	154	S1R:4P:-101 WBOX600X600-25/25	NO	1.000	7,396.065	13,500	1,103	1,622
35	154	S2R:4P:-101 WBOX600X600-32/32	NO	1.000	9,718.489	13,371	1,935	2,191
35	154	S3R:4P:-101 WBOX600X600-32/32	NO	1.000	10,144.249	13,371	2,269	2,607
35	154	S4R:4P:-101 WBOX600X600-25/25	NO	1.000	8,088.831	13,371	2,012	2,266
35	154	S5R:4P:-101 WBOX600X600-25/25	NO	1.000	8,542.631	13,371	2,139	3,462
35	154	S6R:4P:-101 WBOX600X600-63/63	NO	1.000	16,720.271	13,371	2,605	2,759
35	155	S1R:5P:-101 WBOX600X600-20/20	NO	1.000	4,432.592	10,400	1,200	1,200
35	155	S2R:5P:-101 WBOX600X600-20/20	NO	1.000	4,613.910	10,078	1,400	1,600
35	155	S3R:5P:-101 WBOX600X600-20/20	NO	1.000	4,543.159	10,078	1,200	1,800
35	155	S4R:5P:-101 WBOX600X600-20/20	NO	1.000	4,756.350	10,078	1,200	1,987
35	155	S5R:5P:-101 WBOX600X600-20/20	NO	1.000	5,376.868	10,078	1,200	2,758
35	155	S6R:5P:-101 WBOX600X600-20/20	NO	1.000	4,245.129	10,078	1,000	1,200
35	156	S1R:6P:-101 WBOX600X600-20/20	NO	1.000	6,340.459	15,400	1,100	1,406
35	156	S2R:6P:-101 WBOX600X600-20/20	NO	1.000	6,888.813	15,400	1,146	2,149
35	156	S3R:6P:-101 WBOX600X600-25/25	NO	1.000	9,068.194	15,400	2,186	2,222
35	156	S4R:6P:-101 WBOX600X600-20/20	NO	1.000	7,361.437	15,400	1,826	2,101
35	156	S5R:6P:-101 WBOX600X600-20/20	NO	1.000	7,407.331	15,400	1,875	2,796

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
35	156	S6R:6P:-101 WBOX600X600-20/20	NO	1.000	7,253.725	15,400	1,962	2,059
35	157	S1R:7P:-101 WBOX600X600-20/20	NO	1.000	5,151.578	12,508	1,300	1,350
35	157	S2R:7P:-101 WBOX600X600-20/20	NO	1.000	5,518.121	12,908	1,750	1,801
35	157	S3R:7P:-101 WBOX600X600-20/20	NO	1.000	5,354.575	13,326	1,300	1,750
35	157	S4R:7P:-101 WBOX600X600-20/20	NO	1.000	5,631.250	13,026	1,750	1,808
35	157	S5R:7P:-101 WBOX600X600-20/20	NO	1.000	5,419.733	12,826	1,300	2,364
35	157	S6R:7P:-101 WBOX600X600-20/20	NO	1.000	5,724.388	12,426	1,932	2,094
35	182	S7L:2P:-101 WPI10005003216	NO	1.000	15,730.328	17,457	1,432	2,516
35	182	S7R:2P:-101 WPI10005003216	NO	1.000	15,945.281	17,457	1,432	2,735
35	182	S8L:2P:-101 WPI12006005016	NO	1.000	23,920.435	16,115	1,992	2,884
35	182	S8R:2P:-101 WPI12006005016	NO	1.000	23,920.435	16,115	1,992	2,884
35	182	S9L:2P:-101 WPI12008005020	NO	1.000	33,617.784	16,465	2,018	3,838
35	182	S9R:2P:-101 WPI12008005020	NO	1.000	33,617.784	16,465	2,018	3,838
35	182	S10L:2P:-101 WPI13009003620	NO	1.000	29,673.518	17,690	2,356	2,510
35	182	S10R:2P:-101 WPI13009003620	NO	1.000	29,660.989	17,690	2,356	2,510
35	182	S11L:2P:-101 WPI13009004025	NO	1.000	34,906.480	17,690	2,786	3,243
35	182	S11R:2P:-101 WPI13009004025	NO	1.000	34,906.480	17,690	2,786	3,243
35	182	S12L:2P:-101 WPI12008503220	NO	1.000	24,570.802	16,593	2,066	3,254
35	182	S12R:2P:-101 WPI12008503220	NO	1.000	24,586.964	16,593	1,973	3,254
35	183	S7L:3P:-101 WPI10005002516	NO	1.000	13,626.243	15,257	2,568	2,758
35	183	S7R:3P:-101 WPI10005002516	NO	1.000	13,717.748	15,257	2,518	2,758
35	183	S8L:3P:-101 WPI12006005016	NO	1.000	21,236.902	15,015	1,800	2,095
35	183	S8R:3P:-101 WPI12006005016	NO	1.000	21,515.315	15,015	2,100	2,595
35	183	S9L:3P:-101 WPI12008005625	NO	1.000	30,700.400	14,965	1,800	1,924
35	183	S9R:3P:-101 WPI12008005625	NO	1.000	30,804.768	14,965	1,800	1,950
35	183	S10L:3P:-101 WPI13009005025	NO	1.000	35,010.687	15,090	2,250	3,425
35	183	S10R:3P:-101 WPI13009005025	NO	1.000	35,114.519	15,090	2,125	3,425
35	183	S11L:3P:-101 WPI13009004032	NO	1.000	30,360.626	15,165	2,037	2,390
35	183	S11R:3P:-101 WPI13009004032	NO	1.000	30,650.565	15,165	2,390	2,482
35	183	S12L:3P:-101 WPI12008502516	NO	1.000	17,332.355	15,007	1,779	2,423
35	183	S12R:3P:-101 WPI12008502516	NO	1.000	17,561.097	15,007	1,780	2,688
35	184	S7L:4P:-101 WPI10005003216	NO	1.000	12,245.592	13,857	1,332	1,600
35	184	S7R:4P:-101 WPI10005003216	NO	1.000	12,245.594	13,857	1,332	1,600
35	184	S8L:4P:-101 WPI12006004025	NO	1.000	21,399.350	14,415	1,540	3,396
35	184	S8R:4P:-101 WPI12006004025	NO	1.000	21,419.135	14,415	1,540	3,396
35	184	S9L:4P:-101 WPI12008005020	NO	1.000	28,516.598	14,640	1,597	3,951
35	184	S9R:4P:-101 WPI12008005020	NO	1.000	28,516.598	14,640	1,597	3,951
35	184	S10L:4P:-101 WPI13009005016	NO	1.000	31,547.524	14,640	1,900	3,336
35	184	S10R:4P:-101 WPI13009005016	NO	1.000	31,547.524	14,640	1,900	3,336
35	184	S11L:4P:-101 WPI13009003620	NO	1.000	23,590.801	14,360	1,900	2,059
35	184	S11R:4P:-101 WPI13009003620	NO	1.000	23,590.801	14,360	1,900	2,059
35	184	S12L:4P:-101 WPI12008502516	NO	1.000	17,239.494	14,332	2,026	2,243
35	184	S12R:4P:-101 WPI12008502516	NO	1.000	17,239.494	14,332	2,026	2,243
35	185	S7L:5P:-101 WPI10005002516	NO	1.000	10,925.711	11,056	2,096	2,712
35	185	S7R:5P:-101 WPI10005002516	NO	1.000	10,925.720	11,057	2,096	2,712
35	185	S8L:5P:-101 WPI12006003616	NO	1.000	13,120.150	10,915	1,702	2,197
35	185	S8R:5P:-101 WPI12006003616	NO	1.000	13,161.849	10,915	1,736	2,197
35	185	S9L:5P:-101 WPI12008005020	NO	1.000	20,697.380	11,065	1,997	2,092
35	185	S9R:5P:-101 WPI12008005020	NO	1.000	20,697.380	11,065	1,997	2,092
35	185	S10L:5P:-101 WPI13009004032	NO	1.000	22,702.639	11,065	2,450	2,600
35	185	S10R:5P:-101 WPI13009004032	NO	1.000	22,702.639	11,065	2,450	2,600
35	185	S11L:5P:-101 WPI13009004016	NO	1.000	19,321.612	10,990	2,147	2,401
35	185	S11R:5P:-101 WPI13009004016	NO	1.000	19,321.612	10,990	2,147	2,401
35	185	S12L:5P:-101 WPI12008502516	NO	1.000	12,685.998	10,832	1,525	2,319
35	185	S12R:5P:-101 WPI12008502516	NO	1.000	12,685.998	10,831	1,525	2,319
35	186	S7L:6P:-101 WPI10005002016	NO	1.000	10,168.039	15,457	1,320	1,600
35	186	S7R:6P:-101 WPI10005002016	NO	1.000	10,168.039	15,457	1,320	1,600
35	186	S8L:6P:-101 WPI12006004020	NO	1.000	21,350.294	15,840	1,647	2,353

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
35	186	S8R:6P:-101 WPI12006004020	NO	1.000	21,365.167	15,840	1,707	2,353
35	186	S9L:6P:-101 WPI12008003625	NO	1.000	24,751.178	16,065	1,800	2,075
35	186	S9R:6P:-101 WPI12008003625	NO	1.000	24,733.243	16,065	1,800	2,075
35	186	S10L:6P:-101 WPI13009005016	NO	1.000	32,091.651	16,065	2,260	2,579
35	186	S10R:6P:-101 WPI13009005016	NO	1.000	32,073.716	16,065	2,260	2,579
35	186	S11L:6P:-101 WPI13009004032	NO	1.000	31,543.160	15,990	2,327	2,357
35	186	S11R:6P:-101 WPI13009004032	NO	1.000	31,543.160	15,990	2,327	2,357
35	186	S12L:6P:-101 WPI12008502520	NO	1.000	19,946.526	15,832	2,656	2,853
35	186	S12R:6P:-101 WPI12008502520	NO	1.000	19,949.565	15,832	2,656	2,853
35	187	S7L:7P:-101 WPI10005002016	NO	1.000	9,242.784	13,358	1,944	2,251
35	187	S7R:7P:-101 WPI10005002016	NO	1.000	9,251.841	13,358	1,944	2,211
35	187	S8L:7P:-101 WPI12006004020	NO	1.000	15,390.803	10,586	1,540	1,800
35	187	S8R:7P:-101 WPI12006004020	NO	1.000	15,239.458	10,586	1,540	1,800
35	187	S9L:7P:-101 WPI12008006340	NO	1.000	28,166.364	10,661	1,830	2,057
35	187	S9R:7P:-101 WPI12008006340	NO	1.000	28,247.051	10,661	1,830	2,057
35	187	S10L:7P:-101 WPI13009006320	NO	1.000	28,332.082	10,736	1,870	2,182
35	187	S10R:7P:-101 WPI13009006320	NO	1.000	28,271.302	10,736	1,870	2,182
35	187	S11L:7P:-101 WPI13009005625	NO	1.000	26,952.009	10,736	1,656	2,314
35	187	S11R:7P:-101 WPI13009005625	NO	1.000	26,890.441	10,736	1,656	2,314
35	187	S12L:7P:-101 WPI12008505016	NO	1.000	27,289.921	13,508	2,486	2,751
35	187	S12R:7P:-101 WPI12008505016	NO	1.000	27,289.921	13,508	2,486	2,751
34	101	S19L:1P:-101 WPI11007003216	NO	1.000	24,208.164	17,918	2,345	2,542
34	101	S19R:1P:-101 WPI11007003216	NO	1.000	24,213.884	17,918	2,345	2,542
34	101	S20L:1P:-101 WPI12008502520	NO	1.000	27,880.865	17,918	2,400	2,718
34	101	S20R:1P:-101 WPI12008502520	NO	1.000	27,885.069	17,918	2,400	2,718
34	101	S21L:1P:-101 WPI12008502520	NO	1.000	29,064.406	18,117	2,400	2,850
34	101	S21R:1P:-101 WPI12008502520	NO	1.000	29,064.398	18,117	2,400	2,850
34	101	S22L:1P:-101 WPI12008502520	NO	1.000	28,638.416	17,954	2,400	2,976
34	101	S22R:1P:-101 WPI12008502520	NO	1.000	28,618.317	17,954	2,400	2,976
34	101	S23L:1P:-101 WPI12006002016	NO	1.000	20,491.724	17,954	2,400	2,697
34	101	S23R:1P:-101 WPI12006002016	NO	1.000	20,476.269	17,954	2,400	2,697
34	102	S19L:2P:-101 WPI11007002516	NO	1.000	14,777.155	14,532	1,778	2,963
34	102	S19R:2P:-101 WPI11007002516	NO	1.000	14,788.459	14,532	1,778	2,963
34	102	S20L:2P:-101 WPI12008502520	NO	1.000	18,415.626	14,532	1,833	2,749
34	102	S20R:2P:-101 WPI12008502520	NO	1.000	18,634.486	14,532	1,833	2,749
34	102	S21L:2P:-101 WPI12008502520	NO	1.000	18,069.374	14,531	1,833	2,534
34	102	S21R:2P:-101 WPI12008502520	NO	1.000	18,091.982	14,532	1,833	2,534
34	102	S22L:2P:-101 WPI12008502520	NO	1.000	18,322.425	14,532	1,833	2,670
34	102	S22R:2P:-101 WPI12008502520	NO	1.000	18,319.577	14,532	1,833	2,670
34	102	S23L:2P:-101 WPI12006002016	NO	1.000	12,512.642	14,457	1,833	2,611
34	102	S23R:2P:-101 WPI12006002016	NO	1.000	12,516.754	14,457	1,833	2,565
34	103	S19L:3P:-101 WPI11007003616	NO	1.000	11,773.949	7,707	1,885	2,773
34	103	S19R:3P:-101 WPI11007003616	NO	1.000	11,773.949	7,707	1,885	2,773
34	103	S20L:3P:-101 WPI12008503220	NO	1.000	13,027.908	7,782	1,998	2,512
34	103	S20R:3P:-101 WPI12008503220	NO	1.000	13,027.908	7,782	1,998	2,512
34	103	S21L:3P:-101 WPI12008503220	NO	1.000	13,835.314	7,782	2,336	3,570
34	103	S21R:3P:-101 WPI12008503220	NO	1.000	13,835.314	7,782	2,336	3,570
34	103	S22L:3P:-101 WPI12008503220	NO	1.000	13,336.037	7,794	2,033	2,361
34	103	S22R:3P:-101 WPI12008503220	NO	1.000	13,336.037	7,794	2,033	2,361
34	103	S23L:3P:-101 WPI12006003220	NO	1.000	12,327.737	7,804	2,174	3,119
34	103	S23R:3P:-101 WPI12006003220	NO	1.000	12,327.737	7,804	2,174	3,119
34	104	S19L:4P:-101 WBOX450X450-25/25	NO	1.000	4,533.742	10,550	1,769	1,859
34	104	S19R:4P:-101 WBOX450X450-25/25	NO	1.000	4,533.742	10,550	1,769	1,859
34	104	S20L:4P:-101 WBOX550X550-16/16	NO	1.000	4,097.365	10,550	1,819	2,758
34	104	S20R:4P:-101 WBOX550X550-16/16	NO	1.000	4,097.388	10,550	1,819	2,758
34	104	S21L:4P:-101 WBOX550X550-25/25	NO	1.000	5,598.356	10,550	1,819	2,684
34	104	S21R:4P:-101 WBOX550X550-25/25	NO	1.000	5,598.356	10,550	1,819	2,684
34	104	S22L:4P:-101 WBOX550X550-25/25	NO	1.000	5,474.843	10,550	1,819	2,344

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
34	104	S22R:4P:-101 WBOX550X550-25/25	NO	1.000	5,474.843	10,550	1,819	2,344
34	104	S23L:4P:-101 WBOX600X600-25/25	NO	1.000	5,784.933	10,550	1,834	1,844
34	104	S23R:4P:-101 WBOX600X600-25/25	NO	1.000	5,784.933	10,550	1,834	1,844
34	105	S19L:5P:-101 WBOX450X450-25/25	NO	1.000	4,285.577	10,250	1,374	1,758
34	105	S19R:5P:-101 WBOX450X450-25/25	NO	1.000	4,285.505	10,250	1,374	1,758
34	105	S20L:5P:-101 WBOX550X550-16/16	NO	1.000	4,364.722	10,250	1,900	2,459
34	105	S20R:5P:-101 WBOX550X550-16/16	NO	1.000	4,364.722	10,250	1,900	2,459
34	105	S21L:5P:-101 WBOX550X550-25/25	NO	1.000	5,463.050	10,250	1,941	2,054
34	105	S21R:5P:-101 WBOX550X550-16/16	NO	1.000	5,463.050	10,250	1,941	2,054
34	105	S22L:5P:-101 WBOX550X550-25/25	NO	1.000	5,748.446	10,250	1,873	2,311
34	105	S22R:5P:-101 WBOX550X550-25/25	NO	1.000	5,748.446	10,250	1,873	2,311
34	105	S23L:5P:-101 WBOX600X600-25/25	NO	1.000	5,604.054	10,250	1,490	1,888
34	105	S23R:5P:-101 WBOX600X600-25/25	NO	1.000	5,603.982	10,249	1,490	1,888
34	106	S19L:6P:-101 WBOX450X450-25/25	NO	1.000	2,381.022	5,514	850	1,848
34	106	S19R:6P:-101 WBOX450X450-25/25	NO	1.000	2,381.022	5,514	850	1,848
34	106	S20L:6P:-101 WBOX550X550-16/16	NO	1.000	2,012.222	5,514	950	1,150
34	106	S20R:6P:-101 WBOX550X550-16/16	NO	1.000	2,012.222	5,514	950	1,150
34	106	S21L:6P:-101 WBOX550X550-16/16	NO	1.000	2,391.837	5,514	950	2,762
34	106	S21R:6P:-101 WBOX550X550-16/16	NO	1.000	2,391.837	5,514	950	2,762
34	106	S22L:6P:-101 WBOX550X550-16/16	NO	1.000	2,004.686	5,514	950	1,150
34	106	S22R:6P:-101 WBOX550X550-16/16	NO	1.000	2,004.686	5,514	950	1,150
34	106	S23L:6P:-101 WBOX600X600-20/20	NO	1.000	2,555.322	5,514	1,000	1,682
34	106	S23R:6P:-101 WBOX600X600-20/20	NO	1.000	2,555.322	5,514	1,000	1,682
36	111	S24:1P:-101 WPI10005005016	NO	1.000	22,402.875	16,117	2,000	2,734
36	111	S25L:1P:-101 WBOX500X500-56/56	NO	1.000	14,429.904	15,618	1,450	1,669
36	111	S25R:1P:-101 WBOX500X500-56/56	NO	1.000	14,430.041	15,618	1,450	1,669
36	111	S26L:1P:-101 WBOX500X500-40/40	NO	1.000	10,652.517	14,268	1,200	2,529
36	111	S26R:1P:-101 WBOX500X500-40/40	NO	1.000	10,650.344	14,268	1,200	2,529
36	111	S27L:1P:-101 WBOX500X500-50/50	NO	1.000	14,239.417	14,418	1,928	3,408
36	111	S27R:1P:-101 WBOX500X500-50/50	NO	1.000	14,237.244	14,418	1,928	3,408
36	111	S28L:1P:-101 WBOX500X500-25/25	NO	1.000	7,490.351	17,418	1,071	1,520
36	111	S28R:1P:-101 WBOX500X500-25/25	NO	1.000	7,491.115	17,417	1,071	1,520
36	111	S29:1P:-101 WPI11005505025	NO	1.000	25,772.913	14,918	2,000	3,173
36	111	S30L-101 WBOX550X550-25/25	NO	1.000	9,315.523	19,268	1,147	1,225
36	111	S30R-101 WBOX550X550-25/25	NO	1.000	9,311.109	19,268	1,147	1,225
36	111	S31L-101 WBOX550X550-25/25	NO	1.000	9,128.237	19,268	1,204	1,341
36	111	S31R-101 WBOX550X550-25/25	NO	1.000	9,126.713	19,268	1,204	1,341
36	111	S32L-101 WBOX550X550-25/25	NO	1.000	9,286.486	18,768	1,250	1,347
36	111	S32R-101 WBOX550X550-25/25	NO	1.000	9,286.486	18,768	1,250	1,347
36	111	S33L-101 WBOX550X550-25/25	NO	1.000	9,050.940	18,768	1,140	1,250
36	111	S33R-101 WBOX550X550-25/25	NO	1.000	9,050.940	18,768	1,140	1,250
36	111	S34L:1P:-101 WBOX600X600-40/40	NO	1.000	12,527.218	14,268	1,598	2,299
36	111	S34R:1P:-101 WBOX600X600-40/40	NO	1.000	12,527.224	14,268	1,598	2,299
36	111	S35L:1P:-101 WBOX500X500-32/32	NO	1.000	9,019.315	14,418	1,047	3,422
36	111	S35R:1P:-101 WBOX500X500-32/32	NO	1.000	9,019.315	14,418	1,047	3,422
36	111	S36L-101 WBOX300X300-16/16	NO	1.000	2,110.924	9,050	1,000	1,000
36	111	S36R-101 WBOX300X300-16/16	NO	1.000	2,110.924	9,050	1,000	1,000
36	111	S37:1P:-101 WPI10005003216	NO	1.000	16,511.655	14,918	2,000	2,637
36	111	S38L:1P:-101 WBOX525X525-32/32	NO	1.000	8,941.865	14,918	1,122	2,073
36	111	S38R:1P:-101 WBOX525X525-32/32	NO	1.000	8,941.865	14,918	1,122	2,073
36	111	S39L:1P:-101 WBOX500X500-36/36	NO	1.000	10,169.931	14,418	1,749	2,247
36	111	S39R:1P:-101 WBOX500X500-36/36	NO	1.000	10,169.929	14,418	1,749	2,247
36	111	S40L:1P:-101 WBOX475X475-32/32	NO	1.000	9,187.271	14,418	1,965	2,124
36	111	S40R:1P:-101 WBOX475X475-32/32	NO	1.000	9,187.273	14,418	1,965	2,124
36	111	S41:1P:-101 WPI10005002516	NO	1.000	14,100.430	14,768	2,000	2,288
36	111	S42L:1P:-101 WBOX575X575-32/32	NO	1.000	10,081.556	14,918	1,200	1,872
36	111	S42R:1P:-101 WBOX575X575-32/32	NO	1.000	10,081.556	14,918	1,200	1,872
36	111	S43L:1P:-101 WBOX600X600-25/25	NO	1.000	8,820.575	14,418	1,687	2,011

Tentative Size Details

PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
36	111	S43R:1P:-101 WBOX600X600-25/25	NO	1.000	8,820.577	14,418	1,687	2,011
36	111	S44L:1P:-101 WBOX550X550-32/32	NO	1.000	9,685.121	14,418	1,525	1,663
36	111	S44R:1P:-101 WBOX550X550-32/32	NO	1.000	9,684.035	14,418	1,525	1,663
36	112	S24:2P:-101 WPI10005003620	NO	1.000	14,829.709	12,740	2,394	2,912
36	112	S25L:2P:-101 WBOX500X500-40/40	NO	1.000	7,606.947	10,900	826	2,366
36	112	S25R:2P:-101 WBOX500X500-40/40	NO	1.000	7,605.579	10,900	826	2,366
36	112	S26L:2P:-101 WBOX500X500-32/32	NO	1.000	7,222.940	12,600	1,221	2,442
36	112	S26R:2P:-101 WBOX500X500-32/32	NO	1.000	7,221.566	12,600	1,221	2,442
36	112	S27L:2P:-101 WBOX500X500-36/36	NO	1.000	8,227.500	12,600	1,542	1,899
36	112	S27R:2P:-101 WBOX500X500-36/36	NO	1.000	8,229.831	12,600	1,542	1,899
36	112	S28L:2P:-101 WBOX500X500-16/16	NO	1.000	2,776.886	9,599	900	1,100
36	112	S28R:2P:-101 WBOX500X500-16/16	NO	1.000	2,776.884	9,600	900	1,100
36	112	S29:2P:-101 WPI11005505032	NO	1.000	21,594.358	14,014	1,700	2,723
36	112	S34L:2P:-101 WBOX600X600-36/36	NO	1.000	8,892.324	12,600	1,197	1,787
36	112	S34R:2P:-101 WBOX600X600-36/36	NO	1.000	8,887.410	12,599	1,197	1,787
36	112	S35L:2P:-101 WBOX500X500-32/32	NO	1.000	6,794.484	12,600	1,199	1,367
36	112	S35R:2P:-101 WBOX500X500-32/32	NO	1.000	6,791.743	12,599	1,199	1,367
36	112	S37:2P:-101 WPI10005002016	NO	1.000	11,140.284	13,857	2,415	3,031
36	112	S38L:2P:-101 WBOX525X525-16/16	NO	1.000	4,156.215	12,100	1,125	1,814
36	112	S38R:2P:-101 WBOX525X525-16/16	NO	1.000	4,157.579	12,100	1,125	1,814
36	112	S39L:2P:-101 WBOX500X500-25/25	NO	1.000	5,989.490	12,599	1,803	1,921
36	112	S39R:2P:-101 WBOX500X500-25/25	NO	1.000	5,987.202	12,600	1,803	1,921
36	112	S40L:2P:-101 WBOX475X475-32/32	NO	1.000	6,674.686	12,600	1,219	1,871
36	112	S40R:2P:-101 WBOX475X475-32/32	NO	1.000	6,674.683	12,599	1,219	1,871
36	112	S41:2P:-101 WPI10005002016	NO	1.000	10,864.036	13,856	1,742	2,510
36	112	S42L:2P:-101 WBOX575X575-20/20	NO	1.000	5,317.192	12,100	1,125	2,293
36	112	S42R:2P:-101 WBOX575X575-20/20	NO	1.000	5,317.192	12,100	1,125	2,293
36	112	S43L:2P:-101 WBOX600X600-25/25	NO	1.000	6,712.431	12,599	1,494	1,545
36	112	S43R:2P:-101 WBOX600X600-25/25	NO	1.000	6,712.429	12,599	1,494	1,545
36	112	S44L:2P:-101 WBOX550X550-25/25	NO	1.000	6,007.145	12,599	1,295	1,323
36	112	S44R:2P:-101 WBOX550X550-25/25	NO	1.000	6,005.619	12,600	1,295	1,323
36	113	S24:3P:-101 WPI10005003216	NO	1.000	12,141.251	13,240	1,600	1,600
36	113	S24:4P:-101 WPI10005002016	NO	1.000	5,070.758	6,557	1,700	1,756
36	113	S25L:3P:-101 WBOX500X500-36/36	NO	1.000	5,394.745	9,400	895	1,095
36	113	S25L:4P:-101 WBOX500X500-32/32	NO	1.000	5,703.816	9,800	930	1,652
36	113	S25R:3P:-101 WBOX500X500-36/36	NO	1.000	5,394.745	9,400	895	1,095
36	113	S25R:4P:-101 WBOX500X500-32/32	NO	1.000	5,703.816	9,800	930	1,652
36	113	S26L:3P:-101 WBOX500X500-16/16	NO	1.000	2,623.803	8,900	800	1,095
36	113	S26L:4P:-101 WBOX500X500-16/16	NO	1.000	3,430.727	9,800	1,551	2,014
36	113	S26R:3P:-101 WBOX500X500-16/16	NO	1.000	2,626.158	8,900	800	1,094
36	113	S26R:4P:-101 WBOX500X500-16/16	NO	1.000	3,430.727	9,800	1,551	2,014
36	113	S27L:3P:-101 WBOX500X500-16/16	NO	1.000	2,572.175	8,900	895	1,100
36	113	S27L:4P:-101 WBOX500X500-16/16	NO	1.000	3,349.758	9,799	1,000	2,197
36	113	S27R:3P:-101 WBOX500X500-16/16	NO	1.000	2,572.175	8,900	895	1,100
36	113	S27R:4P:-101 WBOX500X500-16/16	NO	1.000	3,349.758	9,800	1,000	2,197
36	113	S28L:3P:-101 WBOX500X500-16/16	NO	1.000	3,328.298	10,382	1,228	1,826
36	113	S28R:3P:-101 WBOX500X500-16/16	NO	1.000	3,328.298	10,381	1,228	1,826
36	113	S29:3P:-101 WPI11005505036	NO	1.000	22,024.686	13,390	1,695	1,700
36	113	S29:4P:-101 WPI11005503216	NO	1.000	9,137.988	6,790	1,864	3,458
36	113	S34L:3P:-101 WBOX600X600-56/56	NO	1.000	14,252.592	13,700	1,200	1,200
36	113	S34L:4P:-101 WBOX600X600-32/32	NO	1.000	4,335.836	5,000	1,389	2,708
36	113	S34R:3P:-101 WBOX600X600-56/56	NO	1.000	14,252.592	13,699	1,200	1,200
36	113	S34R:4P:-101 WBOX600X600-32/32	NO	1.000	4,335.837	5,000	1,389	2,708
36	113	S35L:3P:-101 WBOX500X500-36/36	NO	1.000	7,815.150	13,700	1,100	1,583
36	113	S35L:4P:-101 WBOX500X500-20/20	NO	1.000	2,078.101	5,000	900	1,721
36	113	S35R:3P:-101 WBOX500X500-36/36	NO	1.000	7,815.150	13,700	1,100	1,583
36	113	S35R:4P:-101 WBOX500X500-20/20	NO	1.000	2,078.101	5,000	900	1,721
36	113	S37:3P:-101 WPI10005002016	NO	1.000	9,996.806	13,081	1,592	2,988

Tentative Size Details								
PG	MA	MARK NO./DESCRIPTION	UNIT	QUANTITY	WEIGHT (KG).	Length	Breadth	Height
36	113	S37:4P:-101 WPI10005002016	NO	1.000	4,625.687	5,731	1,700	2,211
36	113	S38L:3P:-101 WBOX525X525-16/16	NO	1.000	3,895.123	12,699	937	1,125
36	113	S38R:3P:-101 WBOX525X525-16/16	NO	1.000	3,895.123	12,699	937	1,125
36	113	S39L:3P:-101 WBOX500X500-16/16	NO	1.000	2,679.948	9,399	1,097	1,097
36	113	S39L:4P:-101 WBOX500X500-16/16	NO	1.000	3,373.921	9,299	1,459	1,689
36	113	S39R:3P:-101 WBOX500X500-16/16	NO	1.000	2,679.950	9,400	1,097	1,097
36	113	S39R:4P:-101 WBOX500X500-16/16	NO	1.000	3,373.921	9,299	1,459	1,689
36	113	S40L:3P:-101 WBOX475X475-20/20	NO	1.000	3,020.276	9,400	1,112	1,122
36	113	S40L:4P:-101 WBOX475X475-16/16	NO	1.000	2,921.026	9,299	1,240	2,261
36	113	S40R:3P:-101 WBOX475X475-20/20	NO	1.000	3,020.276	9,399	1,112	1,122
36	113	S40R:4P:-101 WBOX475X475-16/16	NO	1.000	2,921.026	9,299	1,240	2,261
36	113	S41:3P:-101 WPI10005002016	NO	1.000	9,289.162	13,081	1,695	2,312
36	113	S41:4P:-101 WPI10005002016	NO	1.000	5,858.885	5,731	1,320	3,623
36	113	S42L:3P:-101 WBOX575X575-16/16	NO	1.000	4,467.100	13,499	972	1,654
36	113	S42R:3P:-101 WBOX575X575-16/16	NO	1.000	4,467.100	13,499	972	1,654
36	113	S43L:3P:-101 WBOX600X600-32/32	NO	1.000	8,802.579	13,700	1,375	2,095
36	113	S43L:4P:-101 WBOX600X600-25/25	NO	1.000	2,849.575	4,999	905	1,497
36	113	S43R:3P:-101 WBOX600X600-32/32	NO	1.000	8,802.579	13,700	1,375	2,095
36	113	S43R:4P:-101 WBOX600X600-25/25	NO	1.000	2,849.575	4,999	905	1,497
36	113	S44L:3P:-101 WBOX550X550-16/16	NO	1.000	4,155.158	13,699	1,187	1,322
36	113	S44L:4P:-101 WBOX550X550-16/16	NO	1.000	1,741.546	4,999	945	1,304
36	113	S44R:3P:-101 WBOX550X550-16/16	NO	1.000	4,155.158	13,699	1,187	1,322
36	113	S44R:4P:-101 WBOX550X550-16/16	NO	1.000	1,741.546	4,999	945	1,304

CORPORATE QUALITY ASSURANCE
VENDOR'S PROPOSAL CUM EVALUATION REPORT

ANNEXURE- 4							(P4F1R0)
*Supplier has to submit all the documents as per the annexures cited here and naming philosophy must be as prescribed in this document							
Ref No:				Date:			
i.	Main Contractor	Bharat Heavy Electricals Limited					
ii.	Project	2X800 MW DVC Koderma					
iii.	Package Name	Boiler Structure		Package No			
iv.	Proposed Item/Scope of Sub-contracting		Boiler Structure fabrication and Supply				
v.	Item covered under	Schedule-1	☐	As per contract clause No-			
		Schedule-2	☐				
vi.	If item is Schedule-1 and proposed sub-vendor is indigenous, Main Contractor to explain how the contractual provisions will be fulfilled						
vii.	Name and Address of the proposed Sub-vendor's works: -						
viii.	PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network					Under evaluation	

ix.	Item Description (Type/Size/Rating/Scope of Sub-Contracting)	Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc)	Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc)	Timeline for quantity requirements as per project schedule & whether the proposed Sub-vendor equipped with adequate capacity to supply proposed order quantity in time
	Boiler Structure	27244 MT	13622 MT	20 Months

x.	Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (Note:- Only relevant experience details w.r.t. proposed item/scope of subcontracting to be brought out here)					
	Project/Package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply

We confirm that as per our assessment, the proposed sub-vendor has requisite capabilities & supply experience and is suitable for supplying the proposed item/scope of sub-contracting.									
Name :		Desig:		Contact No:		Sign:		Date:	

Company's Seal/Stamp:-

	CORPORATE QUALITY ASSURANCE VENDOR QUESTIONNAIRE

ANNEXURE-5 *(P4F2R0)*					
***Supplier has to submit all the documents as per the annexures cited here and naming philosophy must be as prescribed in this document**					
i.	***Item/Scope of Sub-contracting***	Boiler Structure fabrication and Supply			
ii.	***Address of the registered office***	***Details of Contact Person*** ***(Name, Designation, Mobile, Email)***			
iii.	***Name and Address of the proposed Sub-vendor's works where item is being manufactured***	***Details of Contact Person:*** ***(Name, Designation, Mobile, Email)***			
iv.	***Annual Production Capacity for proposed item/scope of sub-contracting***				
v.	***Annual production for last 3 years for proposed item/scope of sub-contracting***				
vi.	***Details of proposed works***				
1.	***Year of establishment of present works***				
2.	***Year of commencement of manufacturing at above works***				
3.	***Details of change in Works address in past (if any)***				
4.	***Total Area***				
	Covered Area				
5.	***Factory Registration Certificate***	***(Details to be attached as Annexure – F2.1)***			
6.	***Design/ Research & development set-up*** ***(No. of manpower, their qualification, machines & tools employed etc.)***	***Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design)*** ***(Details to be attached as Annexure – F2.2)*** ***(if applicable)***			
7.	***Overall organization Chart with Manpower Details*** ***(Design/Manufacturing/Quality etc.)***	***(Details to be attached as Annexure – F2.3)***			

8.	***After sales service set up in India, in case of foreign sub-vendor*** ***(Location, Contact Person, Contact details etc.)***	***Applicable / Not applicable*** ***(Details to be attached as Annexure – F2.4)***
9.	***Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any.***	***(Details to be attached as Annexure – F2.5)***
10.	***Sources of Raw Material/Major Bought Out Item***	***(Details to be attached as Annexure – F2.6)***
11.	***Quality Control exercised during receipt of raw material/BOI, in-process, Final Testing, packing***	***(Details to be attached as Annexure – F2.7)***
12.	***Manufacturing facilities*** ***(List of machines, special process facilities, material handling etc.)***	***(Details to be attached as Annexure – F2.8)***
13.	***Testing facilities*** ***(List of testing equipment)***	***(Details to be attached as Annexure – F2.9)***
14.	***If manufacturing process involves fabrication then-***	***(Details to be attached as Annexure – F2.10)*** ***(if applicable)***
	List of qualified Welders	
	List of qualified NDT personnel with area of specialization	
15.	***List of out-sourced manufacturing processes with Sub-Vendors' names & addresses***	***Applicable / Not applicable*** ***(Details to be attached as Annexure –F2.11)*** ***(if applicable)***
16.	***Supply reference list including recent supplies***	***Details to be attached as Annexure – F2.12*** ***(as per format given below)***

Project/ package	*Customer Name*	*Supplied Item (Type/Rating/Model /Capacity/Size etc)*	*PO ref no/date*	*Supplied Quantity*	*Date of Supply*

17.	***Product satisfactory performance feedback letter/certificates/End User Feedback***	***(Details to be attached as Annexure - F2.13)***

	CORPORATE QUALITY ASSURANCE **VENDOR QUESTIONNAIRE**

18.	***Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating)*** ***Note: - Reports need not to be submitted***	***Applicable / Not applicable*** ***(Details to be attached as Annexure – F2.14)*** ***(if applicable)***
19.	***Statutory / mandatory certification for the proposed product***	***Applicable / Not applicable*** ***(Details to be attached as Annexure – F2.15)*** ***(if applicable)***
20.	***Copy of ISO 9001 certificate*** ***(if available)***	***(Details to be attached as Annexure – F2.16)***
21.	***Product technical catalogues for proposed item (if available)***	***(Details to be attached as Annexure – F2.17)***

Name:		***Desig:***		***Sign:***		***Date:***	

Company's Seal/Stamp:-

MANUFACTURER'S NAME & ADDRESS **BHEL : TIRUCHIRAPPALLI/ APPD.SUBCONTRACTORS**	**MANUFACTURING QUALITY PLAN** ITEM : Columns & Ceiling Girders Built- up beams SUB-SYSTEM : SG & SCR Structures	**CQP 6827 Rev 00** DATE. 30.12.2024 PAGE 1 OF 5	PROJECT: DVC, Koderma TPS Ph-II (2X800 MW) PACKAGE: SG (2X800 MW) CONTRACT NO: DVC/C&M/Engineering/KTPS (2X800 MW)/EPC/IPHB/LOI/FC/1015 BHEL CUST NO: 1848 & 1849

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	Class	TYPE OF CHECK	QUANTUM OF CHECK M/C	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY M	AGENCY C	AGENCY N	REMARKS
1	2	3	4	5	6	7	8	9	10			11
1.0	MATERIAL	(Materials shall be as per drawing)										
1.1	Plates & Rolled sections ASTM A36, IS 2062 E250 Gr A&BR,E350 Gr B0	Chemical and Mechanical Properties	Critical	T.C.Verifi Cation	100% $	As per Material Spec.		Mfg TC	P	V	V $	$ Raw.matl. correlated to TC for t > 40 mm on receipt. Further correlation to W.O. number & Matl. Grade. **Plates of IS 2062 E 250 Gr BR & E350 Gr BO shall be:** i. Fully killed and impact tested ii. Plates of thickness lesser than and including 12mm- as -rolled. iii. Plates of thickness beyond 12 mm to and including 40 mm- Normalizing Rolling iv. Plates of thickness greater than 40 mm- Furnace normalized In addition, for plates of t > 40 mm: Vacuum degassing shall be done.
		Soundness(UT@)	Critical	T.C.Verifi cation	100%	ASTM A578 Level B-S2		R	P	V	V	@ UT for plates of t >40 mm.

Jeyaram M PREPARED BY	V Deepesh REVIEWED & APPROVED BY	**LEGEND :** *M: Manufacturer / Sub- contractor, C : BHEL / Nominated Inspection agency. N: Customer/ Nominated Inspection agency. P: Perform, W: Witness, R -Records V: Verification of records for "W" Marked items at the time of inspection. TC: Mill/ Mfr. Test certificate,WPS: Weld Procedure Specification PQR: Procedure Qualification Record, WQR: Welder Qualification Record	**FOR CUSTOMER USE**	DOC NO.
NAME &	**SIGNATURE**		REVIEWED BY	NAME & SIGN. OF APPROVING AUTHORITY & SEAL

MANUFACTURER'S NAME & ADDRESS **BHEL : TIRUCHIRAPPALLI/ APPD.SUBCONTRACTORS**	**MANUFACTURING QUALITY PLAN** ITEM : Columns & Ceiling Girders Built- up beams SUB-SYSTEM : SG & SCR Structures	**CQP 6827 Rev 00** DATE. 30.12.2024 PAGE 2 OF 5	PROJECT: DVC, Koderma TPS Ph-II (2X800 MW) PACKAGE: SG (2X800 MW) CONTRACT NO: DVC/C&M/Engineering/KTPS (2X800 MW)/EPC/IPHB/LOI/FC/1015 BHEL CUST NO: 1848 & 1849

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	Class	TYPE OF CHECK	QUANTUM OF CHECK M/C	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY M	AGENCY C	AGENCY N	REMARKS
1	2	3	4	5	6	7	8	9	10			11
2.0	INPROCESS CONTROLS											
2.1	Edge preparation after cutting.	NDE (Shop welds)	Minor	LPI/MPI @	100% *	BHE:NDT:PB PT01 (Latest) BHE:NDT:PB: MT 01(latest)		R	P	W	V	* For Flame cut edges of 't'=> 38mm Surface shall be ground before welding
	@ For Flame cut edges, 100% for t>=38mm.,10% for t>= 20mm < 38mm. 100% all bevel edges of t >= 20mm prior to welding.											
		For shop edge prepared ends (for welding at site)		MPI / UT	100% $	BHE:NDT:PB :MT01(latest) BHE:NDT:SS :UT31(latest)		R	P	W		$ Only for ceiling girder butt joints of all thickness,UT/MPI to be done for a width of 100 mm from the edge (after edge preparation)
2.2	Welding	Procedure Qlfn	Major	Review of Documents	100%	SIP:NP:07(latest)		WPS/ WQR	P	V		
		Personnel Qlfn		Review of Documents	100%	SIP:NP:07(latest)		R	P	V		
2.3	Welding Inspn.	Weld Size and Weld quality	Minor	Visual and Measure ment	100% Random	Drawing , SIP:NP:06(latest)		-	P	W		

Jeyaram M	V Deepesh	**LEGEND :** *M: Manufacturer / Sub- contractor, C : BHEL / Nominated Inspection agency. N: Customer/ Nominated Inspection agency. P: Perform, W: Witness, R -Records V: Verification of records for "W" Marked items at the time of inspection. TC: Mill/ Mfr. Test certificate,WPS: Weld Procedure Specification PQR: Procedure Qualification Record, WQR: Welder Qualification Record	**FOR CUSTOMER USE**	DOC NO.
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MANUFACTURER'S NAME & ADDRESS **BHEL : TIRUCHIRAPPALLI/ APPD.SUBCONTRACTORS**	**MANUFACTURING QUALITY PLAN** ITEM : Columns & Ceiling Girders Built- up beams SUB-SYSTEM : SG & SCR Structures	**CQP 6827 Rev 00** DATE. 30.12.2024 PAGE 3 OF 5	PROJECT: DVC, Koderma TPS Ph-II (2X800 MW) PACKAGE: SG (2X800 MW) CONTRACT NO: DVC/C&M/Engineering/KTPS (2X800 MW)/EPC/IPHB/LOI/FC/1015 BHEL CUST NO: 1848 & 1849

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	Class	TYPE OF CHECK	QUANTUM OF CHECK M/C	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
									M	C	N	
1	2	3	4	5	6	7	8	9	10			11
2.3.1	NDE of Butt welds	Weld quality	Major	RT * RT MPI MPI	100% * 10% $ 100% $ 10% #	BHE:NDT:SS:RT-5(latest) BHE:NDT:PB:MT01(latest)		R	-	W	V	*RT / UT for t ≥32mm. $ for t>25< 32mm.10% of joints per vendor. # for t≤25mm.
2.3.2	Fillet Welds	Surface check	Major	LPI/MPI	100% $ 10% #	BHE:NDT:PB:MT01(latest) BHE:NDT:PB PT01 (Latest)		R	P	W		$ When 't' in both plates is 25mm and above #Other fillet welds.
2.3.3	Production test coupons for butt and fillet welds of Main columns and Ceiling Girders.	Weld fusion and soundness	Major	RT*/ Macroetch	One test coupon per Vendor per unit.	BHE:NDT:SS:RT-5(latest) AWS D1.1		R	P	W	V	*ReferNote-1
2.4	Heat Treatment for butt welds	Time & Temp	Major	Review of documents	100%#	As per WPS		R	P	V	V	# C.S: for 't' > 50mm A.S: for 't' > 16mm.

Jeyaram M	V Deepesh	**LEGEND :** *M: Manufacturer / Sub- contractor, C : BHEL / Nominated Inspection agency. N: Customer/ Nominated Inspection agency. P: Perform, W: Witness, R -Records V: Verification of records for "W" Marked items at the time of inspection. TC: Mill/ Mfr. Test certificate,WPS: Weld Procedure Specification PQR: Procedure Qualification Record, WQR: Welder Qualification Record	**FOR CUSTOMER USE** — DOC NO.
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MANUFACTURER'S NAME & ADDRESS **BHEL : TIRUCHIRAPPALLI/ APPD.SUBCONTRACTORS**	**MANUFACTURING QUALITY PLAN** ITEM : Columns & Ceiling Girders Built- up beams SUB-SYSTEM : SG & SCR Structures **CQP 6827 Rev 00** DATE. 30.12.2024 PAGE 4 OF 5	PROJECT: DVC, Koderma TPS Ph-II (2X800 MW) PACKAGE: SG (2X800 MW) CONTRACT NO: DVC/C&M/Engineering/KTPS (2X800 MW)/EPC/IPHB/LOI/FC/1015 BHEL CUST NO: 1848 & 1849

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	Class	TYPE OF CHECK	QUANTUM OF CHECK M/C	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY M	AGENCY C	AGENCY N	REMARKS
1	2	3	4	5	6	7	8	9	10			11
3.0	Final Inspection.											
3.1	Individual Pieces	Shape,Size & Overall dimns. Length Orientations	Major	Visual & Verification. Measurment	100%	Drawing		R	P	W		
3.2	Trial Assy. of main columns, Ceiling girders.	Overall Dimensions. Alignment,Match marking	Major	Visual & Measurment	100%	Drawing & SIP:NP:02(latest)		R	P	W	W $	$ 1 main column & 1 Ceiling Girder Assembly/ Unit.
3.3	Verification of completion	Overall Dimensions. Orientations Compilations	Major	Verification Visual	100%	As per Drawing		-	P	V		
3.4	Painting , Preservation & protection	Surface preparation Finish & coat thickness	Minor	Visual Measure ment	100% Random	As per approved painting scheme PL:C3-PS/1848			P	W		
3.5	Identification	W.O NO ,DU Project	Minor	Visual	100%	Drawing			P	V		

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ITEM : Columns & Ceiling Girders Built- up beams **CQP 6827 Rev 00**
SUB-SYSTEM : SG & SCR Structures DATE. 30.12.2024
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									M	C	N	
1	2	3	4	5	6	7	8	9	10			11

Note -1:

FILLET WELDS: (FOR MAIN COLUMNS (-Plus type) & CEILING GIRDERS):

Two macros from the first piece and the last piece of main column of higher thickness and one macro for ceiling girder individual piece of higher thickness shall be tested after removing the start on / run off pieces.

The starting or Run off plates (S/R) shall be as follows:

Length at least 50 mm on both ends, Thickness: Same as job thickness, Plate Size: 100x150x T, 100x50xT where 'T 'is the higher thickness of flange/web

Fillet size shall be same as the weld on column pieces. After welding completion of the first column piece and the last piece (as per the manufacturing sequence), both the pieces shall be offered to BHEL-QC inspection for macro-examination. Based on acceptance of macro examination by BHEL-QC, all welds covered in the lot, I,box or plus sections shall be cleared. In case of any unacceptable fusion during macro examination the relevant defective welds shall be reworked in accordance with AWS D 1.1 for acceptance by BHEL-QC.

BUTT WELDS: (MAIN COLUMNS (-Plus type) & CEILING GIRDERS).

The test coupon shall be attached on column/girder piece representing higher thickness plate of Length 300 mm and Plate size: 300x150xT-Max.2nos where, 'T 'is the higher thickness of flange/web.

The Test coupon shall be 100% RT tested before taking up for mechanical testing.

The test coupon shall be subjected to the following mechanical tests:

a. Side bend test - 180 deg. with mandrel of 4t, where `t' is the thickness of the specimen.
   Tensile test - shall meet the minimum requirements of parent material.

In case of any failure, the cause of the failure shall be clearly established & agreed by BHEL-QC. On final acceptance by BHEL –QC, all welds covered in the lot, I, box or plus sections shall be cleared. In case of any defect/failure, the relevant defective welds shall be reworked in accordance with AWS D 1.1 for acceptance by BHEL-QC.

<table>
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REVIEWED & APPROVED BY</td><td rowspan="2">**LEGEND :**
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</table>

	BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPPALLI-14				
	QUALITY ASSURANCE				
PGMA Categorisation list (Mechanical items) for Koderma TPS Ph-II (2X800 MW) ,					
Doc.No. 1848-1849 PGMA Structures Catlist Rev.:00				DATE:30.1.2025	
Sl.No.	PG	MA	DESCRIPTIONS	Doc No.	Category
1	35	010	FOUNDATION MATERIALS	Drawing/GMS	III
2	35	141	Auxiliary Columns LHS 1st Tier	CQP 6827	I
3	35	152	AUXCOL RHSMID 1&2PAS	CQP 6827	I
4	35	131	Middle Columns RHS 1st Tier	CQP 6827	I
5	35	133	Middle Columns RHS 3rd Tier	CQP 6827	I
6	35	134	Middle Columns RHS 4th Tier	CQP 6827	I
7	35	153	AUXCOL RHSUPR 1&2PAS	CQP 6827	I
8	35	311	HORIZONTAL BRACING I	Drawing/GMS	III
9	35	321	HORIZ BRACING I PASS	Drawing/GMS	III
10	35	322	HORIZ BRACING II PAS	Drawing/GMS	III
11	35	332	HORIZ BRACING II PAS	Drawing/GMS	III
12	35	441	Horil Beams First Pass-Tier-1	Drawing/GMS	III
13	35	442	Horil Beams First Pass-Tier-2	Drawing/GMS	III
14	35	451	Hor Beam-Second Pass- Tier-1	Drawing/GMS	III
15	35	452	Hor Beam-Second Pass- Tier-2	Drawing/GMS	III
16	35	511	Front Bracing-Tier-1	Drawing/GMS	III
17	35	521	Side Bracing-Tier-1	Drawing/GMS	III
18	35	523	Side Bracing-Tier-3	Drawing/GMS	III
19	35	531	Rear Bracing-Tier-1	Drawing/GMS	III
20	35	532	Rear Bracing-Tier-2	Drawing/GMS	III
21	35	811	FLOOR GRILLS AND GUARD PLATE	VQP	II
22	35	312	HORIZ BRACING II PAS	Drawing/GMS	III
23	35	331	HORIZ BRACING I PASS	Drawing/GMS	III
24	35	341	HORIZ BRACING I PASS	Drawing/GMS	III
25	35	342	HORIZ BRACING II PAS	Drawing/GMS	III
26	35	351	HORIZ BRACING I PASS	Drawing/GMS	III
27	35	381	Landing & Connecting Platforms Tier-1	Drawing/GMS	III
28	35	382	Landing & Connecting Platforms Tier-2	Drawing/GMS	III
29	35	384	Landing & Connecting Platforms Tier-4	Drawing/GMS	III
30	35	443	Horil Beams First Pass-Tier-3	Drawing/GMS	III
31	35	444	Horil Beams First Pass-Tier-4	Drawing/GMS	III
32	35	453	Hor Beam-Second Pass- Tier-3	Drawing/GMS	III
33	35	454	Hor Beam-Second Pass- Tier-4	Drawing/GMS	III
34	35	512	Front Bracing-Tier-2	Drawing/GMS	III
35	35	514	Front Bracing-Tier-4	Drawing/GMS	III
36	35	522	Side Bracing-Tier-2	Drawing/GMS	III
37	35	524	Side Bracing-Tier-4	Drawing/GMS	III
38	35	534	Rear Bracing-Tier-4	Drawing/GMS	III
39	35	535	Rear Bracing-Tier-5	Drawing/GMS	III
40	35	812	Edge Strip And Guard Plate	Drawing/GMS	III
41	35	146	Auxiliary Columns LHS 6th Tier	CQP 6827	I
42	35	156	Auxiliary Columns RHS 6th Tier	CQP 6827	I
43	35	352	HORIZ BRACING II PAS	Drawing/GMS	III
44	35	361	HORIZ BRACING I PASS	Drawing/GMS	III
45	35	362	HORIZ BRACING II PAS	Drawing/GMS	III
46	35	383	Landing & Connecting Platforms Tier-3	Drawing/GMS	III
47	35	386	Landing & Connecting Platforms Tier-6	Drawing/GMS	III
48	35	387	Landing & Connecting Platforms Tier-7	Drawing/GMS	III
49	35	536	Rear Bracing-Tier-6	Drawing/GMS	III
50	35	821	STAIRS - LOWER	Drawing/GMS	III

Doc.No. 1848-1849 PGMA Structures Catlist Rev.:00				DATE:30.1.2025	
Sl.No.	PG	MA	DESCRIPTIONS	Doc No.	Category
51	35	822	STAIRS - MIDDLE	Drawing/GMS	III
52	35	823	STAIRS - UPPER	Drawing/GMS	III
53	35	851	HAND RAILS AND POSTS	Drawing/GMS	III
54	35	995	CHUTE PIPE AND LADDE	Drawing/GMS	III
55	35	138	MIDDLE COLUMNS 8TH TIER	CQP 6827	I
56	35	148	AUXILIARY COLUMNS LHS 8TH TIER	CQP 6827	I
57	35	188	MAIN COLUMNS 8TH TIER	CQP 6827	I
58	35	190	GIRDER PIN CONNECTIO	Drawing/GMS	III
59	35	211	CEILING STRUCTUREMAI	CQP 6827	I
60	35	212	CEILING STRUCTUREMAI	CQP 6827	I
61	35	213	CEIL STRUCT -CROSS W	CQP 6827	I
62	35	214	CEIL STRUCT -CROSS W	CQP 6827	I
63	35	222	CEILING STRUCTURE RO	Drawing/GMS	III
64	35	445	Horil Beams First Pass-Tier-5	Drawing/GMS	III
65	35	446	Horil Beams First Pass-Tier-6	Drawing/GMS	III
66	35	513	Front Bracing-Tier-3	Drawing/GMS	III
67	35	515	Front Bracing-Tier-5	Drawing/GMS	III
68	35	516	Front Bracing-Tier-6	Drawing/GMS	III
69	35	517	Front Bracing-Tier-7	Drawing/GMS	III
70	35	527	Side Bracing-Tier-7	Drawing/GMS	III
71	35	533	Rear Bracing-Tier-3	Drawing/GMS	III
72	35	721	HSFG FASTENERS FOR 35PG - TIER 1	Drawing/GMS	III
73	35	722	HSFG FASTENERS FOR 35PG - TIER 2	Drawing/GMS	III
74	35	724	HSFG FASTENERS FOR 35PG - TIER 4	Drawing/GMS	III
75	35	725	HSFG FASTENERS FOR 35PG - TIER 5	Drawing/GMS	III
76	35	726	HSFG FASTENERS FOR 35PG - TIER 6	Drawing/GMS	III
77	35	727	HSFG FASTENERS FOR 35PG - TIER 7	Drawing/GMS	III
78	35	728	HSFG FASTENERS FOR 35PG - TIER 8	Drawing/GMS	III
79	35	730	HSFG FASTENERS - CEILING	Drawing/GMS	III
80	35	132	Middle Columns RHS 2nd Tier	CQP 6827	I
81	35	135	Middle Columns RHS 5th Tier	CQP 6827	I
82	35	136	Middle Columns RHS 6th Tier	CQP 6827	I
83	35	137	Middle Columns RHS 7th Tier	CQP 6827	I
84	35	142	Auxiliary Columns LHS 2nd Tier	CQP 6827	I
85	35	143	Auxiliary Columns LHS 3rd Tier	CQP 6827	I
86	35	144	Auxiliary Columns LHS 4th Tier	CQP 6827	I
87	35	145	Auxiliary Columns LHS 5th Tier	CQP 6827	I
88	35	147	Auxiliary Columns LHS 7th Tier	CQP 6827	I
89	35	151	AUXCOL LHSLWR 1&2PAS	CQP 6827	I
90	35	154	Auxiliary Columns RHS 4th Tier	CQP 6827	I
91	35	155	Auxiliary Columns LHS 7th Tier	CQP 6827	I
92	35	157	Auxiliary Columns RHS 7th Tier	CQP 6827	I
93	35	181	Main Columns 1st Tier	CQP 6827	I
94	35	182	Main Columns 2nd Tier	CQP 6827	I
95	35	183	Main Columns 3rd Tier	CQP 6827	I
96	35	184	Main Columns 4th Tier	CQP 6827	I
97	35	185	Main Columns 5th Tier	CQP 6827	I
98	35	186	Main Columns 6th Tier	CQP 6827	I
99	35	187	Main Columns 7th Tier	CQP 6827	I
100	35	231	CEILING STRUCTURE HO	Drawing/GMS	III
101	35	232	CEILING STRUCTURE HO	Drawing/GMS	III
102	35	385	Landing & Connecting Platforms Tier-5	Drawing/GMS	III
103	35	455	Hor Beam-Second Pass- Tier-5	Drawing/GMS	III
104	35	525	Side Bracing-Tier-5	Drawing/GMS	III
105	35	528	Side Bracing-Tier-8	Drawing/GMS	III

Doc.No. 1848-1849 PGMA Structures Catlist Rev.:00				DATE:30.1.2025	
Sl.No.	PG	MA	DESCRIPTIONS	Doc No.	Category
106	35	221	CEILING STRUCTURE RO	Drawing/GMS	III
107	35	371	Horizontal Bracing@79100 (MBL-7)1st Pass	Drawing/GMS	III
108	35	372	Horizontal Bracing @79100(MBL-7)2nd Pass	Drawing/GMS	III
109	35	388	Landing & Connecting Platforms Tier-8	Drawing/GMS	III
110	35	390	MISC STRUCTURES	Drawing/GMS	III
111	35	447	Horil Beams First Pass-Tier-7	Drawing/GMS	III
112	35	448	Horil Beams First Pass-Tier-8	Drawing/GMS	III
113	35	456	Hor Beam-Second Pass- Tier-6	Drawing/GMS	III
114	35	457	Hor Beam-Second Pass- Tier-7	Drawing/GMS	III
115	35	458	Hor Beam-Second Pass- Tier-8	Drawing/GMS	III
116	35	518	Front Bracing-Tier-8	Drawing/GMS	III
117	35	526	Side Bracing-Tier-6	Drawing/GMS	III
118	35	537	Rear Bracing-Tier-7	Drawing/GMS	III
119	35	538	Rear Bracing-Tier-8	Drawing/GMS	III
120	35	701	HSFG FASTENERS	Drawing/GMS	III
121	35	993	CONSUMABLESANDERECTI	Drawing/GMS	III
122	35	158	AUXILIARY COLUMNS RHS 8TH TIER	Drawing/GMS	III
123	35	723	HSFG FASTENERS FOR 35PG - TIER 3	Drawing/GMS	III
124	35	374	Horizontal Bracing@87500(MBL-8) 1st Pass	Drawing/GMS	III
125	35	375	Horizontal Bracing@87500(MBL-8) 2nd Pass	Drawing/GMS	III
126	36	346	NON-MBL FLOOR BETWEE	Drawing/GMS	III
127	36	322	MAIN FLOOR II MBL 2ND	Drawing/GMS	III
128	36	321	MAIN FLOOR II MBL IST	Drawing/GMS	III
129	36	721	HSFG FASTENERS FOR 36PG - TIER 1	Drawing/GMS	III
130	36	722	HSFG FASTENERS FOR 36PG - TIER 2	Drawing/GMS	III
131	36	723	HSFG FASTENERS FOR 36PG - TIER 3	Drawing/GMS	III
132	36	993	CONSUMABLESANDERECIT	Drawing/GMS	III
133	36	313	NON-MBL FLOOR BETWEE	Drawing/GMS	III
134	36	314	NON-MBL FLOOR BETWEE	Drawing/GMS	III
135	36	383	LAND & CONN PLAT UPP	Drawing/GMS	III
136	36	820	STAIRS AND LADDERS	Drawing/GMS	III
137	36	821	STAIRS AND LADDERS	Drawing/GMS	III
138	36	822	STAIRS AND LADDERS	Drawing/GMS	III
139	36	823	STAIRS AND LADDERS	Drawing/GMS	III
140	36	324	NON-MBL FLOOR BETWEE	Drawing/GMS	III
141	36	325	NON-MBL FLOOR BETWEE	Drawing/GMS	III
142	36	326	NON-MBL FLOOR BETWEE	Drawing/GMS	III
143	36	323	NON-MBL FLOOR BETWEE	Drawing/GMS	III
144	36	333	NON-MBL FLOOR BETWEE	Drawing/GMS	III
145	36	335	NON-MBL FLOOR BETWEE	Drawing/GMS	III
146	36	375	Floor Beams @ 87500 (MBL-8) 2nd Pass	Drawing/GMS	III
147	36	376	Floor Beams @ 90500 (Tier-8)2nd Pass	Drawing/GMS	III
148	36	851	HANDRAILS AND POSTS	Drawing/GMS	III
149	36	311	MAIN FLOOR I MBL 1ST	Drawing/GMS	III
150	36	345	NON-MBL FLOOR BETWEE	Drawing/GMS	III
151	36	352	MAIN FLOOR V MBL II ND	Drawing/GMS	III
152	36	111	COLUMNS NEAR APH Tier 1	CQP 6827	I
153	36	112	COLUMNS NEAR APH Tier 2	CQP 6827	I
154	36	113	COLUMNS NEAR APH Tier 3	CQP 6827	I
155	36	151	BEAMS AND BRACINGS NEAR APH Tier 1	Drawing/GMS	III
156	36	152	BEAMS AND BRACINGS NEAR APH Tier 2	Drawing/GMS	III
157	36	153	BEAMS AND BRACINGS NEAR APH Tier 3	Drawing/GMS	III
158	36	353	NON-MBL FLOOR BETWEE	Drawing/GMS	III
159	36	355	NON-MBL FLOOR BETWEE	Drawing/GMS	III
160	36	362	MAIN FLOOR VI MBL 2ND	Drawing/GMS	III

Doc.No.	1848-1849 PGMA Structures Catlist		Rev.:00	DATE:30.1.2025	
Sl.No.	PG	MA	DESCRIPTIONS	Doc No.	Category
161	36	814	FLOORGRILLSANDGUARDP	VQP	II
162	36	853	HANDRAILS AND POSTS	Drawing/GMS	III
163	36	354	NON-MBL FLOOR BETWEE	Drawing/GMS	III
164	36	356	NON-MBL FLOOR BETWEE	Drawing/GMS	III
165	36	363	NON_MBL FLOOR ABOVE	Drawing/GMS	III
166	36	364	NON MBL FLOOR ABOVE MBL VI	Drawing/GMS	III
167	36	365	NON MBL FLOOR ABOVE MBL VI	Drawing/GMS	III
168	36	366	NON MBL FLOOR ABOVE MBL VI	Drawing/GMS	III
169	36	371	Floor Beams @ 79100 (MBL-7) 1st Pass	Drawing/GMS	III
170	36	372	Floor Beams @ 79100 (MBL-7) 2nd Pass	Drawing/GMS	III
171	36	373	Floor Beams @ 83400 (Tier-8)	Drawing/GMS	III
172	36	374	Floor Beams @ 87500 (MBL-8) 1st Pass	Drawing/GMS	III
173	36	377	Floor Beams 2nd Pass Tier-8	Drawing/GMS	III
174	36	610	BOILER ROOF STRUCTUR	Drawing/GMS	III
175	36	611	BOILER ROOF SHEETING	VQP	I
176	36	813	FLOORGRILLSANDGUARDP	VQP	II
177	36	341	MAIN FLOOR IV MBL 1ST	Drawing/GMS	III
178	36	342	MAIN FLOOR IV MBL 2ND	Drawing/GMS	III
179	36	343	NON-MBL FLOOR BETWEE	Drawing/GMS	III
180	36	344	NON-MBL FLOOR BETWEE	Drawing/GMS	III
181	36	351	MAIN FLOOR V MBL IST	Drawing/GMS	III
182	36	361	MAIN FLOOR VI MBL 1ST	Drawing/GMS	III
183	36	852	HANDRAILS AND POSTS	Drawing/GMS	III
184	36	331	MAIN FLOOR III MBL 1	Drawing/GMS	III
185	36	332	MAIN FLOOR III MBL 2	Drawing/GMS	III
186	36	334	NON-MBL FLOOR BETWEE	Drawing/GMS	III
187	36	336	NON-MBL FLOOR BETWEE	Drawing/GMS	III
188	36	337	NON-MBL FLOOR BETWEE	Drawing/GMS	III
189	36	338	NON-MBL FLOOR BETWEE	Drawing/GMS	III
190	36	812	FLOORGRILLSANDGUARDP	VQP	II
191	36	312	MAIN FLOOR I MBL 2ND	Drawing/GMS	III
192	36	315	NON-MBL FLOOR BETWEE	Drawing/GMS	III
193	36	316	NON-MBL FLOOR BETWEE	Drawing/GMS	III
194	36	740	POSTS AND HANGERS	Drawing/GMS	III
195	36	811	FLOORGRILLSANDGUARDP	VQP	II
196	36	700	Hsfg Bolts	Drawing/GMS	III
197	36	701	Fasterners	Drawing/GMS	III
198	36	381	LAND & CONN PLAT LOW	Drawing/GMS	III
199	36	382	LAND & CONN PLAT MID	Drawing/GMS	III
200	36	398	HEAVY SLIDE BEARING PLATES	Drawing/GMS	III
201	36	620	BOILER SIDE CLADDING	VQP	I
202	36	613	RAIN WATER PIPES and	Drawing/GMS	III
203	36	392	MISCELLANEOUS PLATFO	Drawing/GMS	III
204	36	395	MISCELLANEOUS PLATFO	Drawing/GMS	III
205	36	396	Slide Bearing Plates	Drawing/GMS	III
206	36	621	BOILER SIDE CLADDING	VQP	I
207	36	630	OTHER BOILER SIDING	Drawing/GMS	III
208	36	631	OTHER BOILER SIDING SHEETING	Drawing/GMS	III
209	36	393	APH, SCAPH, HANDLING	Drawing/GMS	III
210	36	391	MISCELLANEOUS PLATFO	Drawing/GMS	III
211	36	394	MISCELLANEOUS PLATFO	Drawing/GMS	III
212	38	410	MILL MAINTANANCE PLA	Drawing/GMS	III
213	38	810	FLOORGRILLS AND GUAR	VQP	II
214	38	310	CONN PLATFORMS TO MI	Drawing/GMS	III
215	38	710	LIFT MACHINE ROOM DE	Drawing/GMS	III

Doc.No. 1848-1849 PGMA Structures Catlist			Rev.:00	DATE:30.1.2025	
Sl.No.	**PG**	**MA**	**DESCRIPTIONS**	**Doc No.**	**Category**
216	38	510	LIFT BEAMS AND BRACI	Drawing/GMS	III
217	38	210	INTER CONN PLATFORMS	Drawing/GMS	III
218	38	611	ELEVATOR CLADDING SH	VQP	I
219	38	299	MILL HANDLING MONORA	Drawing/GMS	III
220	38	610	ELEVATOR CLADDING ST	VQP	I
221	38	850	HAND RAILS AND HAND	Drawing/GMS	III
222	38	820	STAIRS AND LADDERS	Drawing/GMS	III
223	38	993	CONSUMABLES AND EREC	Drawing/GMS	III
224	39	012	FOUNDATION MATERIALS	Drawing/GMS	III
225	39	993	CONSUMABLES AND EREC	Drawing/GMS	III
226	39	141	COLS FRAMES NEAR ID	Drawing/GMS	III
227	39	142	COLS FRAMES NEAR ID	Drawing/GMS	III
228	39	700	HSFG FASTENERS FOR P	Drawing/GMS	III
229	39	820	STAIRS	Drawing/GMS	III
230	39	150	COL FRAMES BETN I.D.	Drawing/GMS	III
231	39	101	COLUMNS FRAMES BEFOR	Drawing/GMS	III
232	39	299	Platforms - Before ESP	Drawing/GMS	III
233	39	300	PLATFORMS - AFTER ESP	Drawing/GMS	III
234	39	850	HAND RAIL AND HAND R	Drawing/GMS	III
235	39	305	FAN HANDLING STRUCTU	Drawing/GMS	III
236	39	306	FAN HANDLING STRUCTU	Drawing/GMS	III
237	39	102	COLUMNS FRAMES BEFOR	Drawing/GMS	III
238	39	810	FLOOR GRILL	Drawing/GMS	III
239	39	304	FAN HANDLING STRUCTU	Drawing/GMS	III

Notes:

Category I : Quality plan approval by M/s DVC & physical inspection as per the approved quality plan is envisaged.

Category II : Quality plan approval by M/s DVC & physical inspection as per the approved quality plan only by BHEL/ BHEL's TPIA.

Category III : Inspection will be done by BHEL/BHEL's TPIA . Clearance by M/s DVC is based on COC submitted by BHEL. Painting will be done as per BHEL Standard painting scheme.All other PGMAs & items which are not indicated in the above list, are to be considered as Category III items

Jeyaram

JEYARAM .M

Sr. Manager /QA/BHEL Trichy

BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli - 620 014

DVC- KODERMA TPS, PHASE-II (2X800MW)
KODERMA DIST, JHARKHAND
CUSTOMER NO: U8-1848/1849 UNIT – III&IV
PAINTING SCHEDULE

Prepared by	**K. Srinivasan** **Manager/ Plant Lab**	K. Srinivasan	**Document No: PL: C3 - PS / 1848**
Reviewed by	**K. Rajmohan** **AGM/ PE/ FB**	Rajmohan	**Revision No: 00 Dated: 01-01-2025**
Approved by	**A. Santhakumari** **AGM / Plant Lab**	A Santha	**Sheet No. 01 of 13.**

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RECORD OF REVISIONS

Rev. No	Date	Details of revision	Remarks
00	**01-01-2025**	New	**Prepared in line with Bidding Doc. No. DVC/C&M/ENGINEERING/KTPS (2X800MW)/EPC/IPHB & related amendments and corrigendum No.10 (technical clarification no.2) Dt.30.12.2023 to Bidding Documents.**

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
1 PS10	<u>Collector & Separator Vessels (Except Internals), Supports</u> 04 –321,323;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminum Paint to IS 13183 Gr. I DFT 20 µm per coat	1	--	--	Heat Resistant Aluminum Paint to IS 13183 Gr. I DFT 20 µm per coat	1	Aluminum	40
2 PS5	<u>Collector & Separator Vessels internals and Dd items (threaded and machined surfaces only)</u> 04-347;07-331, 360, 361, 362, 393; 08-911,912,913;09-304;12-306, 314, 317, 12-324, 327, 328, 344, 348, 354, 393; 17-304,306,319;19-306,307; 28-700; 32-700; 35-190, 701,721,722,723,724, 725, 726,727; 35-728,730;36-700, 701, 721, 722, 723; 39- 700; 41-710;42-700,710;43-710; 45-710;47-710; 48-019,700;65-710;67-710; <u>Foundation materials</u>: 35-010; 39-012;	SSPC – SP3 Power Tool Cleaning	Rust Preventive Fluid to PR: CHEM: 09 – 04 DFT=25µm per coat	1	--	--	--	--	--	25
3 (i) PS19C8	<u>Boiler supporting structures, Columns, Girders, Bracings</u> 35-131 to 138,141 to 148,151 to 158; 35-181 to 188,211,212; 35-311,312,321,322,331,332,341,342; 35-351,352,361,362,371,372,374,375; 35-511 to 518,521 to 528,531 to 538;	Blast cleaning to SA2 ½ (Near white metal) conforming to ISO 8501-1 with surface profile 40-60 µm	Inorganic Ethyl Zinc Silicate Primer DFT=70µm per coat (refer sheet 12 Sl.no.11 for details)	1	Polyamide cured epoxy with MIO content. Minimum DFT 100µm per coat (refer sheet 12 Sl.no.10 for details)	1	Aliphatic isocyanate cured acrylic finish paint DFT 70µm (refer sheet 12 Sl.no.2 for details)	1	Light Blue Shade To RAL 5012	240

For structural steel, all coats shall be applied at shop.

S. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
3 (ii) PS19C4	Galleries, Stair-ways & inter connecting Walkways 36-111 to 113,151 to 153,311 to 316,321 to 326, 36-331 to 338,341 to 346,351 to 356,361 to 366, 36-371 to 377,381 to 383,391 to 395, 36-610,613,620,621,630,631,740,993; 38-210,299,310,410,510,610,710,993; ID system structures. 39-101,102,141,142,150,299,300; 39-304,305,306,993; Duct supports 48-015,115,145,205,225,265,385,435,465; 48-485,495,665; Buck stays 08-001,003,006,007,111,380,501,503,901,910; Platforms & Beams: 35-213,214,221,222,231,232; 35-381 to 388,390,441 to 448,451 to 458,993,995;	Blast cleaning to SA2 ½ (Near white metal) conforming to ISO 8501-1 with surface profile 40-60 µm	Inorganic Ethyl Zinc Silicate Primer DFT=70µm per coat (refer sheet 12 Sl.no.11 for details)	1	Polyamide cured epoxy with MIO content. Minimum DFT 100µm per coat (refer sheet 12 Sl.no.10 for details)	1	Aliphatic isocyanate cured acrylic finish paint DFT 70µm (refer sheet 12 Sl.no.2 for details)	1	Grey White Shade To RAL 9002	240
4 PS9	Components >95° C Insulated other than components in Sl.No.7 &9 Max temperature 400 deg.C Ring Headers, Down Comers, Hot air Headers outside the gas path etc. 05-137,147,155,227,231,251,327,330,350; 07-102,110,125,217,223,231,232; 12-178, 850,852, 900; 17-407,476,807; 18-001,002,010,701; 19-701,702,903;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 µm per coat	1	Aluminum	40
For structural steel, all coats shall be applied at shop.										

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate Coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
4 PS9 (Contd.)	Hot Air: 48-018,022,116,202,204,207,208,212; 48-214,222,224,262,264,267,662,664,667; Flue Gas: 48-372,382, 384,386, 48-432,434,462,464,482,484,492,494,496,498;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20 µm per coat	1	Aluminum	40
5 PS 9	<u>Components >95° C uninsulated other than components coming in gas path.</u> Temp: >95°C & <400°C 42-200,300; Instrument tappings, doors: 48-200,915;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. II DFT 20µm per coat	1	Aluminum	40
6 PS 10	Components uninsulated other than components coming in gas path. (Temp: >400°C & <600°C) 09-003,004,005; 28-220; Components insulated (Temp: >400°C & <600°C) RH & SH headers 10-135,174,176,178,191,235,274,276,278,283, 10-284,285,291; 15-136, 178,236,278;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. I DFT 20 µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. I DFT 20 µm per coat	1	Aluminum	40
7 PS2	<u>Loose tubes, SH, RH & Eco. coils</u> 11-074,078,374,378,406,467,469, 11-487,491,494,606,608,684,694,716,717,718, 11-767,768,769,787,791,916,917,918,967,968, 11-969,987,991;12-179,181,184,187,368, 12-405,514,524,544,554; 12-800,803,805,862,903,914,917,924,927,928,944,948; 12-954,968; 16-201,202,203,270,278,379; 19-092,402,804,814,824,853,884,914,924,984;	SSPC – SP2 or SSPC – SP3 Hand tool / Power tool cleaning	Red Oxide Zinc Phosphate Dip coat primer to PR: CHEM: 09 – 03 DFT=35µm per coat	1*	--	--	No paint	No paint	Red Oxide	35

*-In lieu of dip painting, 2 coats of brush painting of Red Oxide Zinc Phosphate primer to a coating thickness of 60µ is also permitted in line with Sr.No.9.

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate Coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
8 PS1A1	**Miscellaneous and casing sheets** 04-147,547; 07-409,431,460,461,462,502,503,509,531,560; 12-506,600,906,907;17-919; 30-233,234; 36-396,398,611; 38-611; Fuel firing: 41-350,390,500,997; Steam blowing piping 42-001,002,005,010,046,065,070,120,152,154, 42-157,997; 43-004,005,104,105,200,997; 45-200,801,802, 804,805,858,997; 47-281,283, 858,997; Duct plates, expansion joints 48-911,912; Coal Feeding 65-736,997; 67-204,272,276, 283,801,802,803,997; 95-088,091,485;97-585, 592; $Handling equipment:99-099,100,300,400,600; Impulse lines: 24-800 Seal air ducting: Cold Air duct:48-012,014, 112,114, 141; Tempering Air: 48-142,144; (Refer note 22 for chequered plates)	SSPC-SP3/ Power Tool Cleaning	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30µm per coat	2	--	--	Synthetic Enamel paint (Long Oil Alkyd) to IS 2932 DFT= 20µm per coat	2	Smoke Grey Shade No: 692 of IS5	100

$ - Final Shade is Golden yellow for under hung crane, Chain Pulley Block, Ratchet Lever and Trolley with hoist. Black shade for Hook.

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
9 PS3	<u>Components >95° C coming in the gas path, Headers, Commissioning Spares &erection Materials etc.,</u> 06-400,401,431,434,437,441,444, 06-447,451, 453,455,500,501,515,731,732, 06-734,735,737,741,744,745,747,751,752,753, 06-755, 759; 07-309,315,316,318,423, 993; 10-182,183,184,185; 11-474; 12-993;17-174,504,506,900,903; 19-704,753,763,783,793,802,850,851,852; 20-988,998; 30-103,105,212,215,219,223,224,235; 31-010,104; 32-010,210,810; 37-010; 41-988; 42-858,988; 48-993; 65-200; 67-200; 95-988;96-193; 97-282,287,297,298,407,577,590,591; 97-593,599;99-501,514; (Refer note 20 for info about 32-210)	SSPC-SP3/ Power Tool Cleaning	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30µm per coat	2	--	--	No paint	No paint	Red oxide	60
10 PS6	<u>Hand rails and posts, ladders / rungs</u> 35-821,822,823,851; 36-820,821,822,823,851,852,853; <u>Floor Grills, Step treads</u> 35 – 811,812; 36-811,812,813,814; 38-810,820,850; 39-810,820,850;	SSPC – SP8/ Acid pickling	Hot dip Galvanizing to a coating weight of 610 g/m^2 (minimum) and to a coating thickness of 85µm. Refer Notes given below **							

Notes **: The Guard plates, Hood Ladders, Stringer channels, angles and plates shall be painted as per painting scheme prescribed in Sl. No: 03 (ii).

PAINTING SCHEME FOR VALVES

Sl.No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
11 @PS 9/10	<u>Cast carbon steel valves (Conventional)</u> <u>Cast alloy steel valves (Conventional)</u> <u>All API valves, QCNRV, SV & SRV Silencers,</u> <u>Safety valves & ERV</u>	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr.II/I DFT= 20µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr.II/I DFT= 20µm per coat	1	Aluminum	40
	Forged valves	Chemical cleaning	Phosphating to a coating weight of 1500 mg per Sq.ft.	--	--	--	--	--	--	--
1AS2	<u>Soot Blower components</u> 20-051,054,201,204,511,794,962 (Refer note 19 for valve head assembly)	Blast cleaning to SA2 ½ (Near white metal) with surface profile 15-30 µm	Red Oxide Zinc Phosphate Primer (Alkyd Base) to IS 12744 DFT= 30µm per coat	2	--	--	Syn. Enamel paint (Long Oil Alkyd) to IS 2932 DFT= 20µm per coat	2	Verdigris Green Shade No. 280 of IS5	100
	HP / LP system	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr.I DFT= 20µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr.I DFT= 20µm per coat	1	Aluminum	40

@ Heat resistant silicone based aluminum paint to IS 13183 Gr.II shall be applied for temperature up to 400 deg.C, Gr. I shall be applied for temperature >400 deg.C and up to 600 deg.C.

Sl. No.	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat		Finish coat			Total DFT µm (min)
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
12 PS15	**For CLH & VLH*** PGs 07,08,12,17,19,21,24,47,48 &80 07-402,403,405;12-517,528; 17-904,906; 19-506,507,904,905, 906,907; 48-206,395;	Blast cleaning to SA2 ½ (Near white metal) with surface profile 35-50 µm	Epoxy zinc rich primer To IS 14589 Gr. II (latest) %VS=35, (min) DFT=40 microns per coat	1	--	--	Aliphatic acrylic Poly-urethane paint to IS13213 (latest) %VS=40.0 (min) DFT= 30.0 microns per coat	1	Phirozi Blue Shade No. 176 of IS5	70
13 PS8C	**Components > 95ºC & <200 ºC, un-insulated Fuel pipes** 47-200, 289;	SSPC-SP3/ Power Tool Cleaning	Heat Resistant Aluminium Paint to IS 13183 Gr. III DFT 20 µm per coat	1	--	--	Heat Resistant Aluminium Paint to IS 13183 Gr. III DFT 20 µm per coat	1	Aluminum	40
14 PS 1BE	All Columns below '0' level (embedded in concrete) PGs 34,35,36,38, 39	SSPC-SP3/ Power Tool Cleaning	HB Chlorinated Rubber Based Zinc Phosphate primer %VS=40, (min) DFT=50 microns per coat	1	--	--	No paint	No paint	Grey	50

*- For components other than CLH & VLH, painting scheme shall be as given in Sl. No. 8.

NOTES:

1. **Rust Preventive Coating should be given on HSFG Bolt and nut threads. After torque tightening of the same, Zinc rich epoxy primer to 70µ shall be applied after power tool cleaning.**

2. Machined surfaces and all retainers are to be applied with a coating of Temporary Rust Preventive oil.

3. All threaded and other surfaces of foundation bolts and its materials, insulation pins, Anchor channels, Sleeves, shall be coated with Temporary Rust Preventive Fluid and during execution of civil works; the dried film of coating shall be removed using organic solvents.

4. Ground shade/ Colour of Finish paints & identification tag/Band for equipments, pipings pipe service, boiler supporting structures and other boiler components shall be followed as per DVC color coding scheme.

5. PGMAs under Sub-Vendor items are not indicated. For all bought-out and sub-vendors items including PGMAs mentioned above falling under the scope of BHEL the same scheme as for main equipment as covered in this document shall be followed. Vendor standard practice has to be followed for PGMA not specified in this document.

6. This painting Schemes is valid for only Customer No: U8/1848 & 1849, DVC KODERMA - 2X800 MW.

7. No painting is required for Stainless Steel, non-ferrous & galvanized components.

08. Wherever inside surfaces of components under PGMA 48 – XXX & others, need protection till erection, two coats of Red-oxide zinc phosphate primer paint to IS12744 to a DFT of 60 microns shall be applied, after power tool cleaning. This includes duct inside surfaces, truss, beams, gusset plate, guide vanes, divider plates, rectifier, divider vanes etc. coming in the gas path.

09. The Temporary Rust Preventive coating that already been applied on any components, tubes, pipes etc., shall be visually inspected for good adherence. If the coating is intact, direct coating of alkyd based red oxide paints over the coating is permitted. In case, the coating has peeled off over a large area, then the coating is to be removed by suitable solvents / heating to 350 –400 °C for an hour before primer paint application –but, in this case, it should be ensured that the minimum surface cleanliness required for primer paint application shall be SSPC – SP2 (equivalent – Hand Tool cleaning).

10. In components, wherever plates / sheets of thickness less than or equal to 5 mm and rods of ≤25mm/tubes/drain pipes & bent rods are used, power tool / hand tool cleaning to SSPC – SP3 / SP2 shall be followed and the painting shall be done as described in Sl.No.8.

11. For all commissioning components-erection materials (xx-993) two coats of Red oxide Zinc Phosphate Primer shall be applied to meet the temporary protection till erection, after power tool cleaning.

12. Touch-up paintings, making good any damaged shop painting and completing any unfinished portion of the shop coat shall be carried out as per clause applicable painting scheme.

13. All components covered under different PGMA's are to be painted. In case any component is left out, the same shall be deemed to be included under the relevant section based on paint logic approved.

14. For very small components like clamps, bent rods, small plates etc. which are not having feasible dimensions for blast cleaning, painting scheme of Sl.No.8 shall be followed.

15. For very small components with weldable primer at edges, the entire component shall be applied with weldable primer. Structural members having welded connections at site, relevant area can be painted with weldable primer.

16. Painting scheme for all temporary structures like 04-196 shall be PS 1AE i.e. 1 coat of Red oxide Zinc Phosphate primer (Alkyd Base) to IS 12744-DFT-30µ and 2 coats of Synthetic Enamel paint (Long Oil Alkyd) to IS 2932-DFT-2X20µ Shade Yellow –Shade No. 356 of IS 5- Total DFT 70µ. These are to be cut & removed at site after erection. (It excludes components covered under Sr. No. 3 & 10 of description table).

17. For internal protection of Pipes, tubes, headers and other pressure parts, Volatile Corrosion Inhibitor (VCI) pellets shall be put (after sponge testing/ draining/ or drying) and subsequently end capped. The dosage of VCI pellets shall be approximately 100 g/ Cu.m. For tubes typically 4 – 5 tablets per end are to be put. For C & I items the dosage of self-indicating Silica Gel (colourless) shall be 250 g/ cu.m. (About 2 to 3 bags weighing approximately 100 grams each). VCI pellets shall not be used for stainless steel components and its composite associates.

18. All threaded components of spring assemblies and turnbuckles shall be galvanized and achromatized to 15 microns minimum thickness.

19. Soot blower components i.e Valve head assembly having high surface temperature (> 200 and <600 deg. C) shall be applied with protective coating as per PS9 (up to 400 deg.C) and PS10 (up to 600 deg.C)

20. Corner plate, sheet channel and fixing pins of PGMA 32-210 shall be painted as per scheme PS3 to total DFT of 60 microns.

21. It is mandatory that for finish coat each layer shall have a permanent DFT and free from any paint defects like sags, wrinkles etc. Total DFT of a component correspond to respective painting scheme has to be ensured and recorded by inspection agency as per QP. Where measured total dry film thickness falls below the specified minimum, an additional coat of finish paint shall be applied.

22. For chequered plates having thickness <=5, surface preparation can be power tool cleaning to St3 and painting shall be in line with Sl. No. 8.

23. Handrails, step treads of PGMA under Sl. No. 3 need to be galvanized in line with scheme for handrails (i.e. Sl .No. 10).

24. Inside surfaces of fabricated structure (e.g. Box type column) shall be painted with two coats of red oxide primer paint during fit up stage.

25. Painting of bunker structures to be in line with painting scheme of supporting structures (Sl. No. 3).

26. All steel structures shall be provided with painting as given in the specification. Further, painting system shall also meet the requirements of corrosivity category C3 (durability high) as per ISO 12944.

27. For items meant for Spares and subcontracting where no further processing is involved, the painting scheme selected shall be the same as that of similar product configuration/ description.

28. The paint/primer manufacturer's instructions covering thinning, mixing, method of application, handling and drying time shall be strictly followed.

Painting Scheme – Details for procurement & application purposes

Sl. No.	Generic nature of paint	Theoretical Covering Capacity Sq.m per Litre.	No. of pack	Volume solids, % (min)	DFT in microns per coat (approx.)	Shade	Shade No. to IS5	Mode of appln.	Over coating interval, Hrs.
1	Epoxy Zinc rich primer to IS14589 Gr.II (latest)	8	2	35	50	Grey	--	Spray	24
2	Two-pack aliphatic Isocyanate cured acrylic finish paint (solid by volume minimum 55% (min) with Gloss retention (SSPC Paint Spec No 36, ASTM D 4587, D 2244, D 523) of Level 2 (after minimum 1000 hours exposure, Gloss loss less than 30 and colour change less than 2.0 Delta – E).	13	2	55	70	Grey white/ Light blue	RAL 9002/ RAL 5012	Airless Spray	24
3	Heat resistant Aluminium paint to IS 13183 Grade I/II (latest)	10	1	-	20	--	--	Brush / Spray	24
4	Red oxide zinc phosphate primer paint to IS 12744 (latest)	10	1	--	30	-	--	Brush / Spray	12
5	Red oxide Zinc Phosphate Dip coat primer paint to PR: CHEM: 09-03	10	1	--	35	--	---	Dip	12
6	Long oil alkyd synthetic enamel finish paint to IS2932 (latest)	17	1	--	20	Reqd. shade	Corrpdg. Shade no.	Brush / Spray	12
7	Temporary Rust preventive fluid to PR: CHE: 09 – 04	10	1	--	25	--	--	--	12
8	General purpose Aluminium paint to IS 2339 (latest)	10	2	--	20	Aluminum	--	Brush	12
9	HB Chlorinated Rubber Based Zinc Phosphate Primer-Colour Grey	8	1	40	50	Grey	--	Brush / Spray	12
10	Two component polyamide cured epoxy based polyamide cured MIO pigmented intermediate coat. (containing lamellar MIO minimum 30% on pigment)	8	2	80	100 (min)	Brown/ grey	--	Airless Spray	24
11	Two component moisture curing zinc (ethyl) silicate primer, metallic Zinc content 80% (min), Zinc dust quality shall be as per ASTM D 520 Type 2.	8	2	60	70 (min)	Grey	--	Airless Spray	24

The covering capacity of paints specified is only approximate. The paints and Rust Preventive fluid shall be procured from BHEL's approved suppliers.

Painting of Damaged Areas

(Areas where the paint has deteriorated badly by erosion and areas where the paint film has lost its adhesion and where the steel has rusted appreciably, should be repainted as follows)

Sl.No.	Components	Surface Prepa-ration	Primer coat		Intermediate coat		Finish coat			Total DFT µm
			Paint	No. of coats	Paint	No. of coats	Paint	No. of coats	Shade	
1	Paint damaged components fall under Sl.no: 3	Power tool cleaning of minimum 6" of surrounding areas to bare metal	Epoxy zinc rich primer to IS 14589 Grade II	2 T.DFT 70µ (min)	As given in scheme	1	As given in scheme	1	As given in scheme	As given in scheme