

Corrigendum - 2 dated 13/07/2026 to CPC Tender No. BHEL/CPC/UKI/M BLR MM/27/028

Corrigendum - 2 dated 13/07/2026 to CPC Tender No. BHEL/CPC/UKI/M_BLR_MM/27/028 for the work of

“Package - A: Erection, Testing, commissioning, Trial Operation and handing over of Boiler and its auxiliaries including Pressure Part, Non-Pressure Parts, Duct dampers and its support structure, Auxiliary Boiler, Rotating Equipment's, Air Pre-Heaters, ID/FD/PA fans, Mills, Refractory etc. along with application of lining, Insulation, NDT, supply & final Painting/ Touch-up painting as applicable and wherever required as per painting schedule including Handling of materials at BHEL/ Client's Stores/ Storage Yard and transportation to site at 1x800 MW GSECL UKAI TPS (Unit#7), Tapi District, Gujarat.

Package – B: Material Handling and Management including Receipt, unloading, verifying, shifting, stacking, preservation, handling and handing over of components of Boiler with auxiliaries including Mills & Feeders etc.; ESP with auxiliaries, Steam Turbine & auxiliaries; Auxiliary Boiler, Turbo-Generator & auxiliaries; Pumps with aux., Rotating machines, Tanks & Vessels, Electrical, Controls and Instrumentation equipments, Panels, Cables / Cable trays, and other related items including items of Boiler, TG & other packages; HP & LP piping; Refractory & Insulation with cladding materials; BHEL T&P; components & equipment of various other systems, Pre-Fabricated Structures, Structural & Reinforcement steel, Cement, supply installation and maintenance of CCTV camera and providing services for Materials Management at 1x800 MW GSECL UKAI TPS (Unit#7), Tapi District, Gujarat”.

A) Time Extension: Clause No. 1.0 Salient Features of NIT in NOTICE INVITING TENDER is revised as below:

Sl. No.	Clause No.	Existing in Tender	Revised vide Corrigendum - 01	Revised As
1	Sl. No. v) DUE DATE & TIME OF OFFER SUBMISSION	Date: 06/07/2026, Time: 11:00 Hrs	Date: 13/07/2026, Time: 11:00 Hrs	Date: 20/07/2026, Time: 11:00 Hrs
2	Sl. No. vi) OPENING OF TENDER	Date: 06/07/2026, Time: 17:00 Hrs	Date: 13/07/2026, Time: 17:00 Hrs	Date: 20/07/2026, Time: 17:00 Hrs

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B) Modification in TECHNICAL CONDITIONS OF CONTRACT (TCC): Some clauses of existing TCC are revised as mentioned below;

Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause																																		
1	Clause 2.5.19	Major Unloading quantities: <table><tr><td colspan="2">Total Approx. Weight of Project material to be unloaded:</td><td colspan="3">97282 MT</td></tr><tr><td colspan="2">Total Approx. Weight of Structural steel & TMT to be unloaded:</td><td colspan="3">2609 MT</td></tr><tr><td colspan="2">Total Approx. Weight of Cement, TMT, Structural Steel(raw) to be managed:</td><td colspan="3">55218 MT</td></tr></table>					Total Approx. Weight of Project material to be unloaded:		97282 MT			Total Approx. Weight of Structural steel & TMT to be unloaded:		2609 MT			Total Approx. Weight of Cement, TMT, Structural Steel(raw) to be managed:		55218 MT			Major Unloading quantities: <table><tr><td colspan="2">Total Approx. Weight of Project material to be unloaded:</td><td colspan="3">95791 MT</td></tr><tr><td colspan="2">Total Approx. Weight of Structural steel & TMT to be unloaded:</td><td colspan="3">2609 MT</td></tr><tr><td colspan="2">Total Approx. Weight of Cement, TMT, Structural Steel(raw) to be managed:</td><td colspan="3">55218 MT</td></tr></table>					Total Approx. Weight of Project material to be unloaded:		95791 MT			Total Approx. Weight of Structural steel & TMT to be unloaded:		2609 MT			Total Approx. Weight of Cement, TMT, Structural Steel(raw) to be managed:		55218 MT		
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2	Clause 7.3, Section A1.1	ITEM NO	DESCRIPTION OF ACTIVITY	UNIT	QTY	% BREAK UP	ITEM NO	DESCRIPTION OF ACTIVITY	UNIT	QTY	% BREAK UP																														
		Section A1					Section A1																																		
		A1.1	Material Handling and Material Management for Materials received through Trucks/Trailers at Project Site.	MT	95282	100%	A1.1	Material Handling and Material Management for Materials received through Trucks/ Trailers at Project Site.	MT	93791	100%																														
		1	Unloading, Shifting to Open/Covered Stores.	MT	95282	30%	1	Unloading, Shifting to Open/ Covered Stores.	MT	93791	30%																														
		2	Updation of Receipt details, in store Material Registers/BHEL MM Package system.	MT	95282	15%	2	Updation of Receipt details, in store Material Registers/ BHEL MM Package system.	MT	93791	15%																														
		3	Stacking and Verification.	MT	95282	15%	3	Stacking and Verification.	MT	93791	15%																														
		4					4	Updation of Verification details in Material stock	MT	93791	25%																														

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Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause				
		4	Updation of Verification details in Material stock registers, Submission of reports as per specified formats for shortage/open delivery, lodging of police reports if required, documents for insurance claims Etc, and preparation of Material Receipt Certificates (MRC) in prescribed formats where ever applicable.	MT	95282	25%		registers, Submission of reports as per specified formats for shortage/ open delivery, lodging of police reports if required, documents for insurance claims Etc, and preparation of Material Receipt Certificates (MRC) in prescribed formats where ever applicable.			
		5	Identification of material in ready to lift position for issue to BHEL/ Erection agency, and updation of issue details in stores Records.	MT	95282	12%	5	Identification of material in ready to lift position for issue to BHEL/ Erection agency, and updation of issue details in stores Records.	MT	93791	12%
		6	Completion of contractual obligations as Serial No. 7.3.1 (7.3.1.1, 7.3.1.2, 7.3.1.3 and 7.3.1.4)	MT	95282	3%	6	Completion of contractual obligations as Serial No. 7.3.1 (7.3.1.1, 7.3.1.2, 7.3.1.3 and 7.3.1.4)	MT	93791	3%

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Sl. No.	TCC Clause No.	Existing clause in Tender			Revised clause		
3	Chapter – IX, Clause 9.0	9.0 Summary of Weight of BOQ for the scope of work mentioned in the tender – (Package-A): -			9.0 Summary of Weight of BOQ for the scope of work mentioned in the tender – (Package-A): -		
		CATEGORY	SCHEDULE	Tentative Approx. Weight (in MT)	CATEGORY	SCHEDULE	Tentative Approx. Weight (in MT)
		STRUCTURE	1A	19,900.87	STRUCTURE	1A	18,258.59
		BOILER-PP	1B	10,852.59	BOILER-PP	1B	10,908.55
		NPP	1C	8,046.82	NPP	1C	8,177.88
		BOILER-APH	2A	4,181.99	BOILER-APH	2A	4,176.29
		BOILER-ROTATING	2B		BOILER-ROTATING	2B	
		INSULATION-WOOL	3A	1,982.48	INSULATION-WOOL	3A	2,041.70
		INSULATION-REFRACTORY	3B	330.31	INSULATION-REFRACTORY	3B	287.00
		INSULATION-IRON	3C	103.28	INSULATION-IRON	3C	108.30
		INSULATION-AL	3D	261.23	INSULATION-AL	3D	254.00
		HP-PIPING	4B	11.26	HP-PIPING	4B	22.00
		LP-PIPING	4C	833.99	LP-PIPING	4C	702.00
		TEMP-PIPING	4D		TEMP-PIPING	4D	
		H&S	4I	1,316.44	H&S	4I	1,310.93
		Total Approx. Weight		47,821.26	Total Approx. Weight		46,247.24
	Chapter-XXV	Total Scope of Work			Total Scope of Work		
		Package	DESCRIPTION OF PACKAGES / ITEM OF WORK	Weightage Factor for w.r.t Total amount quoted by bidder	Package	DESCRIPTION OF PACKAGES / ITEM OF WORK	Weightage Factor for w.r.t Total amount quoted by bidder

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Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause						
		A	Package-A- Erection Testing Commissioning of Boiler and its auxiliaries including Pressure Part, Non-Pressure Parts, Auxiliary Boiler, Duct dampers and its support structure, Rotating Equipment, Air Pre-Heaters, ID/FD/PA fans, Mills, Refractory, etc of Unit #7 at 1x800 MW GSECL Ukai Project.			97.210377%	A	Package-A- Erection Testing Commissioning of Boiler and its auxiliaries including Pressure Part, Non-Pressure Parts, Auxiliary Boiler, Duct dampers and its support structure, Rotating Equipment, Air Pre-Heaters, ID/FD/PA fans, Mills, Refractory, etc of Unit #7 at 1x800 MW GSECL Ukai Project.			97.146659%		
		B	(i) Package-B-Material Handling and Management Works as per scope & Specification of Unit #7 at 1x800 MW GSECL Ukai Project.			2.789623%	B	(i) Package-B-Material Handling and Management Works as per scope & Specification of Unit #7 at 1x800 MW GSECL Ukai Project.			2.853341%		
			(ii) Menial and Secretarial/Computer Operator Services- (Section -C- Part of Package-B)			Fixed Cost		(ii) Menial and Secretarial/Computer Operator Services- (Section -C- Part of Package-B)			Fixed Cost		
			Total Contract Value			A + B (i) + B (ii)		Total Contract Value			A + B (i) + B (ii)		
		Note: The Entire scope of work has been divided in to two Separate Packages for the ease of execution and operation. Awarding shall be done to one agency however for the ease of operation and execution of contract, Subject job shall be awarded in two separate Packages i.e. Package-A for ETC of Boiler and Auxiliaries works and Package-B for Material Handling and Management Works.						Note: The Entire scope of work has been divided in to two Separate Packages for the ease of execution and operation. Awarding shall be done to one agency however for the ease of operation and execution of contract, Subject job shall be awarded in two separate Packages i.e. Package-A for ETC of Boiler and Auxiliaries works and Package-B for Material Handling and Management Works.					
		Package-A- Schedule of Rates & Quantities						Package-A- Schedule of Rates & Quantities					
		SN	Item Description	SCHEDULE	QUANTITY	UOM	Weightage Factor for item Price w.r.t Total amount quoted by bidder	SN	Item Description	SCHEDULE	QUANTITY	UOM	Weightage Factor for item Price w.r.t Total amount quoted by bidder
		1.1	Structure	1A	19,900.87	MT	0.359938571	1.1	Structure	1A	18,258.59	MT	0.34028468170
		1.2	Pressure Parts	1B	10,852.59	MT	0.265060512	1.2	Pressure Parts	1B	10,908.55	MT	0.27453486140

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Sl. No.	TCC Clause No.	Existing clause in Tender						Revised clause					
		1.3	Non-Pressure Parts	1C	8,046.82	MT	0.171460824	1.3	Non-Pressure Parts	1C	8,177.88	MT	0.17955611140
		1.4	Rotating Machines/ Boiler APH	2A & 2B	4,181.99	MT	0.058348835	1.4	Rotating Machines/ Boiler APH	2A & 2B	4,176.29	MT	0.06004248900
		1.5	Insulation- Wool Matress	3A	1,982.48	MT	0.045812739	1.5	Insulation- Wool Matress	3A	2,041.70	MT	0.04861700560
		1.6	Insulation- Pourable and Castable	3B	330.31	MT	0.006411408	1.6	Insulation- Pourable and Castable	3B	287.00	MT	0.00574027130
		1.7	Insulation- Iron Parts	3C	103.28	MT	0.002069499	1.7	Insulation- Iron Parts	3C	108.30	MT	0.00223612630
		1.8	Insulation- Aluminium Cladding Sheets	3D	261.23	MT	0.005354320	1.8	Insulation- Aluminium Cladding Sheets	3D	254.00	MT	0.00536455620
		1.9	HP Piping	4B	11.26	MT	0.000556817	1.9	HP Piping	4B	22.00	MT	0.00112102650
		1.9	LP Piping/Temp Piping	4C & 4D	833.99	MT	0.029048093	1.9	LP Piping/Temp Piping	4C & 4D	702.00	MT	0.02519490510
		1.10	Hangers & Supports	4I	1,316.44	MT	0.028042152	1.10	Hangers & Supports	4I	1,310.93	MT	0.02877455430
		Sub Total of Boiler & Auxiliaries			47,821.26			Sub Total of Boiler & Auxiliaries			46,247.24		
		Package-B- Schedule of Rates & Quantities						Package-B- Schedule of Rates & Quantities					
		Section A1 : Material Handling and Management						Section A1: Material Handling and Management					
		SN	Description of Work/Item	BOQ (MT)	UOM	Weightage Factor for item Price w.r.t Total amount quoted by bidder		SN	Description of Work/Item	BOQ (MT)	UOM	Weightage Factor for item Price w.r.t Total amount quoted by bidder	

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Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause				
		A1.1	Material Handling and Material Management for Materials received through Trucks/Trailers at Project Site	95,28 2	MT	0.020627732	A1.1	Material Handling and Material Management for Materials received through Trucks/ Trailers at Project Site	93,791	MT	0.02101618020
		A1.2	Material Handling and Material Management for Materials received through Railway Wagons at Railway Siding/Station/Godown	1,000	MT	0.000493600	A1.2	Material Handling and Material Management for Materials received through Railway Wagons at Railway Siding/ Station/ Godown	1,000	MT	0.00051089040
		A1.3	Material Handling and Material Management for Materials received at Transporters Godowns within a radius of 50 KM from Project Site	1,000	MT	0.000555661	A1.3	Material Handling and Material Management for Materials received at Transporters Godowns within a radius of 50 KM from Project Site	1,000	MT	0.00057512480
		A1.4	Material Handling and Material Management for Structural steel, Deck sheet, Cladding sheet and Reinforcement steel received through trucks/trailers at project Site	2,609	MT	0.000466923	A1.4	Material Handling and Material Management for Structural steel, Deck sheet, Cladding sheet and Reinforcement steel received through trucks/ trailers at project Site	2,609	MT	0.00048327810
		A1.5	Material (other than cement) reshifting and re-stacking within project premises	10,00 0	MT	0.001977288	A1.5	Material (other than cement) reshifting and re-stacking within project premises	10,000	MT	0.00204654800
		A1.6	Despatch/Outgoing materials (other than Cement)	4,000	MT	0.000727411	A1.6	Despatch/Outgoing materials (other than Cement)	4,000	MT	0.00075289030

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Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause				
		Section-A2: Material Handling and Management					Section-A2: Material Handling and Management				
		SN	Description of Work/Item	BOQ (MT)	Unit Rate (Per MT)		SN	Description of Work/Item	BOQ (MT)	Unit Rate (Per MT)	
		A2.1	Material Management for: i) Cement received through trucks/trailers in bulkers/bags at project Site (Where unloading of Cement is not in scope of MM agency) ii) Reinforcement Steel / Structural steel (raw) received at project Site (Where unloading of Reinforcement/ Structural steel is done by Civil agency)	55,218	MT	0.001832980	A2.1	Material Management for: i) Cement received through trucks/trailers in bulkers/bags at project Site (Where unloading of Cement is not in scope of MM agency) ii) Reinforcement Steel / Structural steel (raw) received at project Site (Where unloading of Reinforcement/ Structural steel is done by Civil agency)	55,218	MT	0.00189718610
		A2.1 (a)	Material Handling and Material Management for Cement received through trucks/trailers in bags at project Site	1,000	MT	0.000142885	A2.1 (a)	Material Handling and Material Management for Cement received through trucks/trailers in bags at project Site	1,000	MT	0.00014788930
		A2.2	Material re-shifting and re-stacking for Cement within project premises	500	MT	0.000057009	A2.2	Material re-shifting and re-stacking for Cement within project premises	500	MT	0.00005900620
		A2.3	Despatch/Outgoing for Cement bags materials	100	MT	0.000011691	A2.3	Despatch/Outgoing for Cement bags materials	100	MT	0.00001209990

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Sl. No.	TCC Clause No.	Existing clause in Tender					Revised clause				
		Section D: Supply and installation of CCTV system for storage space					Section D: Supply and installation of CCTV system for storage space				
		SN	Description of Work/Item	BOQ (Nos.)	UOM		SN	Description of Work/Item	BOQ (Nos.)	UOM	
		D.1	Supply and Installation of all hardware and software of the IP based PTZ dome camera along with p2p/PMP Outdoor CPE Antenna for wireless communication surveillance system including for storage space.	4	Nos.	0.000074361	D.1	Supply and Installation of all hardware and software of the IP based PTZ dome camera along with p2p/PMP Outdoor CPE Antenna for wireless communication surveillance system including for storage space.	4	Nos.	0.00007653110
		D.2	Supply and Installation of all hardware and software of the IP based Fixed bullet camera along with p2p/PMP Outdoor CPE Antenna for wireless communication surveillance system including for storage space.	40	Nos.	0.000282342	D.2	Supply and Installation of all hardware and software of the IP based Fixed bullet camera along with p2p/PMP Outdoor CPE Antenna for wireless communication surveillance system including for storage space.	40	Nos.	0.00029058050
		D.3	Supply and Installation of LED Display Screen – Min. 50” with integration capabilities with CCTV system	2	Nos.	0.000037594	D.3	Supply and Installation of LED Display Screen – Min. 50” with integration capabilities with CCTV system	2	Nos.	0.00003869080

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Sl. No.	TCC Clause No.	Existing clause in Tender						Revised clause					
		Section E: Comprehensive maintenance of the CCTV system for storage space						Section E: Comprehensive maintenance of the CCTV system for storage space					
		SN	Description of Work/Item	BOQ (Months)	UOM			SN	Description of Work/Item	BOQ (Months)	UOM		
		E.1	Comprehensive maintenance of the CCTV system	36	Months	0.000608753		E.1	Comprehensive maintenance of the CCTV system	36	Months	0.00062651550	
		Section C: Menial and Secretarial Services- (Fixed Cost)						Section C: Menial and Secretarial Services- (Fixed Cost)					
		Sl. No.	Description of Work/Item	BOQ (Man-Months)	UOM	Unit Rate (Rs.)	Total Amount (In Rs)	Sl. No.	Description of Work/Item	BOQ (Man-Months)	UOM	Unit Rate (Rs.)	Total Amount (In Rs)
		C.1	Menial Services (Unskilled)	288	Man-Months	18,367	52,89,696	C.1	Menial Services (Unskilled)	288	Man-Months	18,367	52,89,696
		C.2	Secretarial Services/Computer Operator (Skilled)	360	Man-Months	19,137	68,89,320	C.2	Secretarial Services/Computer Operator (Skilled)	360	Man-Months	19,137	68,89,320
		C.3	Menial Services (Unskilled) - for Grass cutting	60	Man-Months	18,367	11,02,020	C.3	Menial Services (Unskilled) - for Grass cutting	60	Man-Months	18,367	11,02,020
		Total Value of Fixed Cost- Section-C (Rs.)					1,32,81,036/-	Total Value of Fixed Cost- Section-C (Rs.)					1,32,81,036/-
		Note: The quantity indicated in the BOQ is approximate only and is liable for variation. Payment will be as per actual quantity executed as certified by BHEL Engineer above Unit rate of individual items of BOQ.						Note: The quantity indicated in the BOQ is approximate only and is liable for variation. Payment will be as per actual quantity executed as certified by BHEL Engineer above Unit rate of individual items of BOQ.					
		4	Chapter XXVI, Appendix x - 1	PGMA Wise List of Package-A- BOQ-Rev-01						PGMA Wise List of Package-A- BOQ-Rev-02 (attached along with this Corrigendum)			
5	Chapter XXVI, Annexure - 21	New Annexure						Annexure – 21: EWS for Auxiliary Boiler (attached along with this Corrigendum)					

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C) Some of the Bidders had asked queries in the published tender specification. The clarifications issued by BHEL are as below;

Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
1	TCC – Chapter – IV: T&Ps and MMEs to be deployed by Contractor	Sl. no: 6 - Induction heating M/c with accessories. (Annealing cable) – 02 Nos.	There is no P-91 and P-92 material in the scope of work. We assume that induction Heating Machines may not be required. Please Clarify.	Tender condition shall prevail. Bidders are requested to refer EWS issued along with tender for understanding Material specifications. May kindly refer some of the area which have P-91, P-92 welding joints, (a) BP Ring Header, (b) Front Platen SH O/L Header to Rear Platen SH I/L Header (c) Rear Platen SH O/L Header to Finish SH I/L Header (d) LTRH O/L HDR to FRH etc.
2			The quantum of P91 welding indicated in the subject tender is considerably less, hence we request BHEL to provide the Induction Machines for P91welding.	Tender condition shall prevail.

- 1) All other terms and conditions against this NIT shall remain unchanged.**
- 2) This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).**

**for BHARAT HEAVY ELECTRICALS LTD
Sr. Manager/ SCT**

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
1	1-35-131	MIDDLE COLUMNS RHS 1ST TIER	BOILER	95.505	TRICHY	BOILER-STRUCTURE	1A
2	1-35-132	MIDDLE COLUMNS RHS 2ND TIER	BOILER	101.365	TRICHY	BOILER-STRUCTURE	1A
3	1-35-133	MIDDLE COLUMNS RHS 3RD TIER	BOILER	78.754	TRICHY	BOILER-STRUCTURE	1A
4	1-35-134	MIDDLE COLUMNS RHS 4TH TIER	BOILER	73.551	TRICHY	BOILER-STRUCTURE	1A
5	1-35-135	MIDDLE COLUMNS RHS 5TH TIER	BOILER	35.003	TRICHY	BOILER-STRUCTURE	1A
6	1-35-136	MIDDLE COLUMNS RHS 6TH TIER	BOILER	21.976	TRICHY	BOILER-STRUCTURE	1A
7	1-35-137	MIDDLE COLUMNS RHS 7TH TIER	BOILER	22.781	TRICHY	BOILER-STRUCTURE	1A
8	1-35-138	MIDDLE COLUMNS 8TH TIER	BOILER	15.21	TRICHY	BOILER-STRUCTURE	1A
9	1-35-141	AUXILIARY COLUMNS LHS 1ST TIER	BOILER	93.271	TRICHY	BOILER-STRUCTURE	1A
10	1-35-142	AUXILIARY COLUMNS LHS 2ND TIER	BOILER	93.144	TRICHY	BOILER-STRUCTURE	1A
11	1-35-143	AUXILIARY COLUMNS LHS 3RD TIER	BOILER	84.572	TRICHY	BOILER-STRUCTURE	1A
12	1-35-144	AUXILIARY COLUMNS LHS 4TH TIER	BOILER	64.851	TRICHY	BOILER-STRUCTURE	1A
13	1-35-145	AUXILIARY COLUMNS LHS 5TH TIER	BOILER	36.333	TRICHY	BOILER-STRUCTURE	1A
14	1-35-146	AUXILIARY COLUMNS LHS 6TH TIER	BOILER	33.006	TRICHY	BOILER-STRUCTURE	1A
15	1-35-147	AUXILIARY COLUMNS LHS 7TH TIER	BOILER	34.953	TRICHY	BOILER-STRUCTURE	1A
16	1-35-148	AUXILIARY COLUMNS LHS 8TH TIER	BOILER	32.584	TRICHY	BOILER-STRUCTURE	1A
17	1-35-151	AUXCOL LHSLWR 1&2PAS	BOILER	92.151	TRICHY	BOILER-STRUCTURE	1A
18	1-35-152	AUXCOL RHSMD 1&2PAS	BOILER	92.873	TRICHY	BOILER-STRUCTURE	1A
19	1-35-153	AUXCOL RHSUPR 1&2PAS	BOILER	84.579	TRICHY	BOILER-STRUCTURE	1A
20	1-35-154	AUXILIARY COLUMNS RHS 4TH TIER	BOILER	64.851	TRICHY	BOILER-STRUCTURE	1A
21	1-35-155	AUXILIARY COLUMNS LHS 7TH TIER	BOILER	36.331	TRICHY	BOILER-STRUCTURE	1A
22	1-35-156	AUXILIARY COLUMNS RHS 6TH TIER	BOILER	33.016	TRICHY	BOILER-STRUCTURE	1A
23	1-35-157	AUXILIARY COLUMNS RHS 7TH TIER	BOILER	34.953	TRICHY	BOILER-STRUCTURE	1A
24	1-35-158	AUXILIARY COLUMNS RHS 8TH TIER	BOILER	32.592	TRICHY	BOILER-STRUCTURE	1A
25	1-35-181	MAIN COLUMNS 1ST TIER	BOILER	372.624	TRICHY	BOILER-STRUCTURE	1A
26	1-35-182	MAIN COLUMNS 2ND TIER	BOILER	396.386	TRICHY	BOILER-STRUCTURE	1A
27	1-35-183	MAIN COLUMNS 3RD TIER	BOILER	395.882	TRICHY	BOILER-STRUCTURE	1A
28	1-35-184	MAIN COLUMNS 4TH TIER	BOILER	368.028	TRICHY	BOILER-STRUCTURE	1A
29	1-35-185	MAIN COLUMNS 5TH TIER	BOILER	213.882	TRICHY	BOILER-STRUCTURE	1A
30	1-35-186	MAIN COLUMNS 6TH TIER	BOILER	175.307	TRICHY	BOILER-STRUCTURE	1A
31	1-35-187	MAIN COLUMNS 7TH TIER	BOILER	199.686	TRICHY	BOILER-STRUCTURE	1A
32	1-35-188	MAIN COLUMNS 8TH TIER	BOILER	154.675	TRICHY	BOILER-STRUCTURE	1A
33	1-35-190	GIRDER PIN CONNECTIO	BOILER	30.328	TRICHY	BOILER-STRUCTURE	1A
34	1-35-211	CEILING STRUCTUREMAI	BOILER	735.476	TRICHY	BOILER-STRUCTURE	1A
35	1-35-212	CEILING STRUCTUREMAI	BOILER	600.168	TRICHY	BOILER-STRUCTURE	1A
36	1-35-213	CEIL STRUCT -CROSS W	BOILER	210.368	TRICHY	BOILER-STRUCTURE	1A
37	1-35-214	CEIL STRUCT -CROSS W	BOILER	145.8	TRICHY	BOILER-STRUCTURE	1A
38	1-35-221	CEILING STRUCTURE RO	BOILER	112.856	TRICHY	BOILER-STRUCTURE	1A
39	1-35-222	CEILING STRUCTURE RO	BOILER	103.165	TRICHY	BOILER-STRUCTURE	1A
40	1-35-231	CEILING STRUCTURE HO	BOILER	82.2	TRICHY	BOILER-STRUCTURE	1A
41	1-35-232	CEILING STRUCTURE HO	BOILER	51.662	TRICHY	BOILER-STRUCTURE	1A
42	1-35-311	HORIZONTAL BRACING I	BOILER	60.502	TRICHY	BOILER-STRUCTURE	1A
43	1-35-312	HORIZ BRACING II PAS	BOILER	37.225	TRICHY	BOILER-STRUCTURE	1A
44	1-35-321	HORIZ BRACING I PASS	BOILER	53.271	TRICHY	BOILER-STRUCTURE	1A
45	1-35-322	HORIZ BRACING II PAS	BOILER	42.861	TRICHY	BOILER-STRUCTURE	1A
46	1-35-331	HORIZ BRACING I PASS	BOILER	40.205	TRICHY	BOILER-STRUCTURE	1A
47	1-35-332	HORIZ BRACING II PAS	BOILER	41.04	TRICHY	BOILER-STRUCTURE	1A
48	1-35-341	HORIZ BRACING I PASS	BOILER	54.78	TRICHY	BOILER-STRUCTURE	1A
49	1-35-342	HORIZ BRACING II PAS	BOILER	36.876	TRICHY	BOILER-STRUCTURE	1A
50	1-35-351	HORIZ BRACING I PASS	BOILER	36.7	TRICHY	BOILER-STRUCTURE	1A
51	1-35-352	HORIZ BRACING II PAS	BOILER	40.544	TRICHY	BOILER-STRUCTURE	1A
52	1-35-361	HORIZ BRACING I PASS	BOILER	47.549	TRICHY	BOILER-STRUCTURE	1A
53	1-35-362	HORIZ BRACING II PAS	BOILER	41.758	TRICHY	BOILER-STRUCTURE	1A
54	1-35-371	HORIZONTAL BRACING@79100 (MBL-7)1ST PASS	BOILER	61.486	TRICHY	BOILER-STRUCTURE	1A
55	1-35-372	HORIZONTAL BRACING @79100(MBL-7)2ND PASS	BOILER	36.387	TRICHY	BOILER-STRUCTURE	1A
56	1-35-381	LANDING & CONNECTING PLATFORMS TIER-1	BOILER	9.461	TRICHY	BOILER-STRUCTURE	1A
57	1-35-382	LANDING & CONNECTING PLATFORMS TIER-2	BOILER	12.547	TRICHY	BOILER-STRUCTURE	1A
58	1-35-383	LANDING & CONNECTING PLATFORMS TIER-3	BOILER	17.56	TRICHY	BOILER-STRUCTURE	1A
59	1-35-384	LANDING & CONNECTING PLATFORMS TIER-4	BOILER	20.774	TRICHY	BOILER-STRUCTURE	1A
60	1-35-385	LANDING & CONNECTING PLATFORMS TIER-5	BOILER	9.514	TRICHY	BOILER-STRUCTURE	1A
61	1-35-386	LANDING & CONNECTING PLATFORMS TIER-6	BOILER	10.52	TRICHY	BOILER-STRUCTURE	1A
62	1-35-387	LANDING & CONNECTING PLATFORMS TIER-7	BOILER	9.573	TRICHY	BOILER-STRUCTURE	1A
63	1-35-388	LANDING & CONNECTING PLATFORMS TIER-8	BOILER	8.536	TRICHY	BOILER-STRUCTURE	1A
64	1-35-390	MISC STRUCTURES	BOILER	6.611	TRICHY	BOILER-STRUCTURE	1A
65	1-35-441	HORIL BEAMS FIRST PASS-TIER-1	BOILER	87.769	TRICHY	BOILER-STRUCTURE	1A
66	1-35-442	HORIL BEAMS FIRST PASS-TIER-2	BOILER	108.712	TRICHY	BOILER-STRUCTURE	1A
67	1-35-443	HORIL BEAMS FIRST PASS-TIER-3	BOILER	103.861	TRICHY	BOILER-STRUCTURE	1A
68	1-35-444	HORIL BEAMS FIRST PASS-TIER-4	BOILER	117.539	TRICHY	BOILER-STRUCTURE	1A
69	1-35-445	HORIL BEAMS FIRST PASS-TIER-5	BOILER	55.71	TRICHY	BOILER-STRUCTURE	1A
70	1-35-446	HORIL BEAMS FIRST PASS-TIER-6	BOILER	57.412	TRICHY	BOILER-STRUCTURE	1A
71	1-35-447	HORIL BEAMS FIRST PASS-TIER-7	BOILER	57.208	TRICHY	BOILER-STRUCTURE	1A
72	1-35-448	HORIL BEAMS FIRST PASS-TIER-8	BOILER	34.092	TRICHY	BOILER-STRUCTURE	1A
73	1-35-451	HOR BEAM-SECOND PASS- TIER-1	BOILER	32.296	TRICHY	BOILER-STRUCTURE	1A
74	1-35-452	HOR BEAM-SECOND PASS- TIER-2	BOILER	55.523	TRICHY	BOILER-STRUCTURE	1A
75	1-35-453	HOR BEAM-SECOND PASS- TIER-3	BOILER	51.715	TRICHY	BOILER-STRUCTURE	1A
76	1-35-454	HOR BEAM-SECOND PASS- TIER-4	BOILER	39.826	TRICHY	BOILER-STRUCTURE	1A
77	1-35-455	HOR BEAM-SECOND PASS- TIER-5	BOILER	29.797	TRICHY	BOILER-STRUCTURE	1A
78	1-35-456	HOR BEAM-SECOND PASS- TIER-6	BOILER	28.663	TRICHY	BOILER-STRUCTURE	1A
79	1-35-457	HOR BEAM-SECOND PASS- TIER-7	BOILER	24.99	TRICHY	BOILER-STRUCTURE	1A
80	1-35-458	HOR BEAM-SECOND PASS- TIER-8	BOILER	18.686	TRICHY	BOILER-STRUCTURE	1A
81	1-35-511	FRONT BRACING-TIER-1	BOILER	41.267	TRICHY	BOILER-STRUCTURE	1A

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
82	1-35-512	FRONT BRACING-TIER-2	BOILER	48.19	TRICHY	BOILER-STRUCTURE	1A
83	1-35-513	FRONT BRACING-TIER-3	BOILER	44.807	TRICHY	BOILER-STRUCTURE	1A
84	1-35-514	FRONT BRACING-TIER-4	BOILER	39.643	TRICHY	BOILER-STRUCTURE	1A
85	1-35-515	FRONT BRACING-TIER-5	BOILER	22.21	TRICHY	BOILER-STRUCTURE	1A
86	1-35-516	FRONT BRACING-TIER-6	BOILER	20.751	TRICHY	BOILER-STRUCTURE	1A
87	1-35-517	FRONT BRACING-TIER-7	BOILER	14.875	TRICHY	BOILER-STRUCTURE	1A
88	1-35-518	FRONT BRACING-TIER-8	BOILER	7.234	TRICHY	BOILER-STRUCTURE	1A
89	1-35-521	SIDE BRACING-TIER-1	BOILER	107.559	TRICHY	BOILER-STRUCTURE	1A
90	1-35-522	SIDE BRACING-TIER-2	BOILER	141.181	TRICHY	BOILER-STRUCTURE	1A
91	1-35-523	SIDE BRACING-TIER-3	BOILER	110.775	TRICHY	BOILER-STRUCTURE	1A
92	1-35-524	SIDE BRACING-TIER-4	BOILER	70.36	TRICHY	BOILER-STRUCTURE	1A
93	1-35-525	SIDE BRACING-TIER-5	BOILER	32.287	TRICHY	BOILER-STRUCTURE	1A
94	1-35-526	SIDE BRACING-TIER-6	BOILER	47.301	TRICHY	BOILER-STRUCTURE	1A
95	1-35-527	SIDE BRACING-TIER-7	BOILER	23.241	TRICHY	BOILER-STRUCTURE	1A
96	1-35-528	SIDE BRACING-TIER-8	BOILER	29.965	TRICHY	BOILER-STRUCTURE	1A
97	1-35-531	REAR BRACING-TIER-1	BOILER	35.909	TRICHY	BOILER-STRUCTURE	1A
98	1-35-532	REAR BRACING-TIER-2	BOILER	38.086	TRICHY	BOILER-STRUCTURE	1A
99	1-35-533	REAR BRACING-TIER-3	BOILER	10.778	TRICHY	BOILER-STRUCTURE	1A
100	1-35-534	REAR BRACING-TIER-4	BOILER	16.152	TRICHY	BOILER-STRUCTURE	1A
101	1-35-535	REAR BRACING-TIER-5	BOILER	11.873	TRICHY	BOILER-STRUCTURE	1A
102	1-35-536	REAR BRACING-TIER-6	BOILER	12.093	TRICHY	BOILER-STRUCTURE	1A
103	1-35-537	REAR BRACING-TIER-7	BOILER	34.315	TRICHY	BOILER-STRUCTURE	1A
104	1-35-538	REAR BRACING-TIER-8	BOILER	3.065	TRICHY	BOILER-STRUCTURE	1A
105	1-35-701	HSFG FASTENERS	BOILER	88.176	TRICHY	BOILER-STRUCTURE	1A
106	1-35-730	HSFG FASTENERS - CEILING	BOILER	51.936	TRICHY	BOILER-STRUCTURE	1A
107	1-35-811	FLOOR GRILLS AND GUARD PLATE	BOILER	107.81	TRICHY	BOILER-STRUCTURE	1A
108	1-35-812	EDGE STRIP AND GUARD PLATE	BOILER	19.895	TRICHY	BOILER-STRUCTURE	1A
109	1-35-821	STAIRS - LOWER	BOILER	17.832	TRICHY	BOILER-STRUCTURE	1A
110	1-35-822	STAIRS - MIDDLE	BOILER	13.529	TRICHY	BOILER-STRUCTURE	1A
111	1-35-823	STAIRS - UPPER	BOILER	7.925	TRICHY	BOILER-STRUCTURE	1A
112	1-35-851	HAND RAILS AND POSTS	BOILER	29.54	TRICHY	BOILER-STRUCTURE	1A
113	1-35-993	CONSUMABLESANDERECTI	BOILER	65.563	TRICHY	BOILER-STRUCTURE	1A
114	1-35-995	CHUTE PIPE AND LADDE	BOILER	21.259	TRICHY	BOILER-STRUCTURE	1A
115	1-36-111	COLUMNS NEAR APH TIER 1	BOILER	492.125	TRICHY	BOILER-STRUCTURE	1A
116	1-36-112	COLUMNS NEAR APH TIER 2	BOILER	189.046	TRICHY	BOILER-STRUCTURE	1A
117	1-36-113	COLUMNS NEAR APH TIER 3	BOILER	117.992	TRICHY	BOILER-STRUCTURE	1A
118	1-36-151	BEAMS AND BRACINGS NEAR APH TIER 1	BOILER	401.953	TRICHY	BOILER-STRUCTURE	1A
119	1-36-152	BEAMS AND BRACINGS NEAR APH TIER 2	BOILER	265.389	TRICHY	BOILER-STRUCTURE	1A
120	1-36-153	BEAMS AND BRACINGS NEAR APH TIER 3	BOILER	235.025	TRICHY	BOILER-STRUCTURE	1A
121	1-36-311	MAIN FLOOR I MBL 1ST	BOILER	8.154	TRICHY	BOILER-STRUCTURE	1A
122	1-36-312	MAIN FLOOR I MBL 2ND	BOILER	5.098	TRICHY	BOILER-STRUCTURE	1A
123	1-36-313	NON-MBL FLOOR BETWEE	BOILER	67.723	TRICHY	BOILER-STRUCTURE	1A
124	1-36-314	NON-MBL FLOOR BETWEE	BOILER	185.062	TRICHY	BOILER-STRUCTURE	1A
125	1-36-315	NON-MBL FLOOR BETWEE	BOILER	233.586	TRICHY	BOILER-STRUCTURE	1A
126	1-36-316	NON-MBL FLOOR BETWEE	BOILER	21.929	TRICHY	BOILER-STRUCTURE	1A
127	1-36-321	MAIN FLOOR II MBL 1ST	BOILER	22.676	TRICHY	BOILER-STRUCTURE	1A
128	1-36-322	MAIN FLOOR II MBL 2ND	BOILER	21.136	TRICHY	BOILER-STRUCTURE	1A
129	1-36-323	NON-MBL FLOOR BETWEE	BOILER	99.332	TRICHY	BOILER-STRUCTURE	1A
130	1-36-324	NON-MBL FLOOR BETWEE	BOILER	248.048	TRICHY	BOILER-STRUCTURE	1A
131	1-36-325	NON-MBL FLOOR BETWEE	BOILER	199.504	TRICHY	BOILER-STRUCTURE	1A
132	1-36-326	NON-MBL FLOOR BETWEE	BOILER	92.73	TRICHY	BOILER-STRUCTURE	1A
133	1-36-331	MAIN FLOOR III MBL 1	BOILER	35.961	TRICHY	BOILER-STRUCTURE	1A
134	1-36-332	MAIN FLOOR III MBL 2	BOILER	35.388	TRICHY	BOILER-STRUCTURE	1A
135	1-36-333	NON-MBL FLOOR BETWEE	BOILER	154.478	TRICHY	BOILER-STRUCTURE	1A
136	1-36-334	NON-MBL FLOOR BETWEE	BOILER	127.115	TRICHY	BOILER-STRUCTURE	1A
137	1-36-335	NON-MBL FLOOR BETWEE	BOILER	87.396	TRICHY	BOILER-STRUCTURE	1A
138	1-36-336	NON-MBL FLOOR BETWEE	BOILER	136.596	TRICHY	BOILER-STRUCTURE	1A
139	1-36-337	NON-MBL FLOOR BETWEE	BOILER	161.137	TRICHY	BOILER-STRUCTURE	1A
140	1-36-338	NON-MBL FLOOR BETWEE	BOILER	5	TRICHY	BOILER-STRUCTURE	1A
141	1-36-341	MAIN FLOOR IV MBL 1ST	BOILER	31.328	TRICHY	BOILER-STRUCTURE	1A
142	1-36-342	MAIN FLOOR IV MBL 2ND	BOILER	13.15	TRICHY	BOILER-STRUCTURE	1A
143	1-36-343	NON-MBL FLOOR BETWEE	BOILER	185.406	TRICHY	BOILER-STRUCTURE	1A
144	1-36-344	NON-MBL FLOOR BETWEE	BOILER	133.055	TRICHY	BOILER-STRUCTURE	1A
145	1-36-345	NON-MBL FLOOR BETWEE	BOILER	170.444	TRICHY	BOILER-STRUCTURE	1A
146	1-36-346	NON-MBL FLOOR BETWEE	BOILER	107.893	TRICHY	BOILER-STRUCTURE	1A
147	1-36-351	MAIN FLOOR V MBL 1ST	BOILER	21.889	TRICHY	BOILER-STRUCTURE	1A
148	1-36-352	MAIN FLOOR V MBL II ND	BOILER	23.482	TRICHY	BOILER-STRUCTURE	1A
149	1-36-353	NON-MBL FLOOR BETWEE	BOILER	76.067	TRICHY	BOILER-STRUCTURE	1A
150	1-36-354	NON-MBL FLOOR BETWEE	BOILER	27.148	TRICHY	BOILER-STRUCTURE	1A
151	1-36-355	NON-MBL FLOOR BETWEE	BOILER	51.442	TRICHY	BOILER-STRUCTURE	1A
152	1-36-356	NON-MBL FLOOR BETWEE	BOILER	23.462	TRICHY	BOILER-STRUCTURE	1A
153	1-36-361	MAIN FLOOR VI MBL 1ST	BOILER	33.012	TRICHY	BOILER-STRUCTURE	1A
154	1-36-362	MAIN FLOOR VI MBL 2ND	BOILER	16.565	TRICHY	BOILER-STRUCTURE	1A
155	1-36-363	NON_MBL FLOOR ABOVE	BOILER	85.528	TRICHY	BOILER-STRUCTURE	1A
156	1-36-364	NON MBL FLOOR ABOVE MBL VI	BOILER	74.04	TRICHY	BOILER-STRUCTURE	1A
157	1-36-365	NON MBL FLOOR ABOVE MBL VI	BOILER	110	TRICHY	BOILER-STRUCTURE	1A
158	1-36-366	NON MBL FLOOR ABOVE MBL VI	BOILER	76	TRICHY	BOILER-STRUCTURE	1A
159	1-36-371	FLOOR BEAMS @ 79100 (MBL-7) 1ST PASS	BOILER	10.005	TRICHY	BOILER-STRUCTURE	1A
160	1-36-372	FLOOR BEAMS @ 79100 (MBL-7) 2ND PASS	BOILER	6.149	TRICHY	BOILER-STRUCTURE	1A
161	1-36-373	FLOOR BEAMS @ 83400 (TIER-8)	BOILER	108.412	TRICHY	BOILER-STRUCTURE	1A
162	1-36-374	FLOOR BEAMS @ 87500 (MBL-8) 1ST PASS	BOILER	137.486	TRICHY	BOILER-STRUCTURE	1A

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
163	1-36-375	FLOOR BEAMS @ 87500 (MBL-8) 2ND PASS	BOILER	6.382	TRICHY	BOILER-STRUCTURE	1A
164	1-36-376	FLOOR BEAMS @ 90500 (TIER-8)2ND PASS	BOILER	20	TRICHY	BOILER-STRUCTURE	1A
165	1-36-377	FLOOR BEAMS 2ND PASS TIER-8	BOILER	28.189	TRICHY	BOILER-STRUCTURE	1A
166	1-36-381	LAND & CONN PLAT LOW	BOILER	10.109	TRICHY	BOILER-STRUCTURE	1A
167	1-36-382	LAND & CONN PLAT MID	BOILER	5.083	TRICHY	BOILER-STRUCTURE	1A
168	1-36-383	LAND & CONN PLAT UP	BOILER	2.538	TRICHY	BOILER-STRUCTURE	1A
169	1-36-391	MISCELLANEOUS PLATFO	BOILER	64	TRICHY	BOILER-STRUCTURE	1A
170	1-36-392	MISCELLANEOUS PLATFO	BOILER	139.753	TRICHY	BOILER-STRUCTURE	1A
171	1-36-393	APH, SCAPH, HANDLING	BOILER	35.23	TRICHY	BOILER-STRUCTURE	1A
172	1-36-394	MISCELLANEOUS PLATFO	BOILER	95	TRICHY	BOILER-STRUCTURE	1A
173	1-36-395	MISCELLANEOUS PLATFO	BOILER	6	TRICHY	BOILER-STRUCTURE	1A
174	1-36-396	SLIDE BEARING PLATES	BOILER	1	TRICHY	BOILER-STRUCTURE	1A
175	1-36-398	HEAVY SLIDE BEARING PLATES	BOILER	2	TRICHY	BOILER-STRUCTURE	1A
176	1-36-610	BOILER ROOF STRUCTUR	BOILER	396.776	TRICHY	BOILER-STRUCTURE	1A
177	1-36-611	BOILER ROOF SHEETING	BOILER	34	TRICHY	BOILER-STRUCTURE	1A
178	1-36-613	RAIN WATER PIPES AND	BOILER	40.538	TRICHY	BOILER-STRUCTURE	1A
179	1-36-620	BOILER SIDE CLADDING	BOILER	127.218	TRICHY	BOILER-STRUCTURE	1A
180	1-36-621	BOILER SIDE CLADDING	BOILER	16	TRICHY	BOILER-STRUCTURE	1A
181	1-36-700	H5FG BOLTS	BOILER	86	TRICHY	BOILER-STRUCTURE	1A
182	1-36-701	FASTERNERS	BOILER	2	TRICHY	BOILER-STRUCTURE	1A
183	1-36-721	H5FG FASTENERS FOR 36PG - TIER 1	BOILER	30	TRICHY	BOILER-STRUCTURE	1A
184	1-36-722	H5FG FASTENERS FOR 36PG - TIER 2	BOILER	12	TRICHY	BOILER-STRUCTURE	1A
185	1-36-723	H5FG FASTENERS FOR 36PG - TIER 3	BOILER	20	TRICHY	BOILER-STRUCTURE	1A
186	1-36-740	POSTS AND HANGERS	BOILER	26	TRICHY	BOILER-STRUCTURE	1A
187	1-36-811	FLOORGRILLSANDGUARDP	BOILER	228.141	TRICHY	BOILER-STRUCTURE	1A
188	1-36-812	FLOORGRILLSANDGUARDP	BOILER	231.899	TRICHY	BOILER-STRUCTURE	1A
189	1-36-813	FLOORGRILLSANDGUARDP	BOILER	180.977	TRICHY	BOILER-STRUCTURE	1A
190	1-36-814	FLOORGRILLSANDGUARDP	BOILER	87	TRICHY	BOILER-STRUCTURE	1A
191	1-36-820	STAIRS AND LADDERS	BOILER	6.77	TRICHY	BOILER-STRUCTURE	1A
192	1-36-821	STAIRS AND LADDERS	BOILER	7.501	TRICHY	BOILER-STRUCTURE	1A
193	1-36-822	STAIRS AND LADDERS	BOILER	7.842	TRICHY	BOILER-STRUCTURE	1A
194	1-36-823	STAIRS AND LADDERS	BOILER	2.932	TRICHY	BOILER-STRUCTURE	1A
195	1-36-851	HANDRAILS AND POSTS	BOILER	92.462	TRICHY	BOILER-STRUCTURE	1A
196	1-36-852	HANDRAILS AND POSTS	BOILER	92.462	TRICHY	BOILER-STRUCTURE	1A
197	1-36-853	HANDRAILS AND POSTS	BOILER	51.817	TRICHY	BOILER-STRUCTURE	1A
198	1-36-993	CONSUMABLESANDERECIT	BOILER	35.634	TRICHY	BOILER-STRUCTURE	1A
199	1-38-210	INTER CONN PLATFORMS	BOILER	25	TRICHY	BOILER-STRUCTURE	1A
200	1-38-299	MILL HANDLING MONORA	BOILER	260	TRICHY	BOILER-STRUCTURE	1A
201	1-38-310	CONN PLATFORMS TO MI	BOILER	40	TRICHY	BOILER-STRUCTURE	1A
202	1-38-410	MILL MAINTANANCE PLA	BOILER	123.517	TRICHY	BOILER-STRUCTURE	1A
203	1-38-510	LIFT BEAMS AND BRACI	BOILER	50	TRICHY	BOILER-STRUCTURE	1A
204	1-38-610	ELEVATOR CLADDING ST	BOILER	59.533	TRICHY	BOILER-STRUCTURE	1A
205	1-38-611	ELEVATOR CLADDING SH	BOILER	35	TRICHY	BOILER-STRUCTURE	1A
206	1-38-710	LIFT MACHINE ROOM DE	BOILER	113	TRICHY	BOILER-STRUCTURE	1A
207	1-38-810	FLOORGRILLS AND GUAR	BOILER	18	TRICHY	BOILER-STRUCTURE	1A
208	1-38-820	STAIRS AND LADDERS	BOILER	5	TRICHY	BOILER-STRUCTURE	1A
209	1-38-850	HAND RAILS AND HAND	BOILER	70	TRICHY	BOILER-STRUCTURE	1A
210	1-38-993	CONSUMABLES AND EREC	BOILER	18.444	TRICHY	BOILER-STRUCTURE	1A
211	1-39-101	COLUMNS FRAMES BEFOR	BOILER	175.619	TRICHY	BOILER-STRUCTURE	1A
212	1-39-102	COLUMNS FRAMES BEFOR	BOILER	447	TRICHY	BOILER-STRUCTURE	1A
213	1-39-299	PLATFORMS - BEFORE ESP	BOILER	170	TRICHY	BOILER-STRUCTURE	1A
214	1-39-304	FAN HANDLING STRUCTU	BOILER	25	TRICHY	BOILER-STRUCTURE	1A
215	1-39-305	FAN HANDLING STRUCTU	BOILER	20	TRICHY	BOILER-STRUCTURE	1A
216	1-39-700	H5FG FASTENERS FOR P	BOILER	51	TRICHY	BOILER-STRUCTURE	1A
217	1-39-810	FLOOR GRILL	BOILER	35.8955	TRICHY	BOILER-STRUCTURE	1A
218	1-39-820	STAIRS	BOILER	14	TRICHY	BOILER-STRUCTURE	1A
219	1-39-850	HAND RAIL AND HAND R	BOILER	31.5	TRICHY	BOILER-STRUCTURE	1A
220	1-39-993	CONSUMABLES AND EREC	BOILER	16.978	TRICHY	BOILER-STRUCTURE	1A
221	1-55-012	FD STAIR & HAND RAIL	BOILER	2	RANIPET	BOILER-STRUCTURE	1A
222	1-55-019	FD FAN MOTOR CANOPY	BOILER	2	RANIPET	BOILER-STRUCTURE	1A
223	1-55-022	ID STAIR & HAND RAIL	BOILER	3	RANIPET	BOILER-STRUCTURE	1A
224	1-55-029	ID FAN MOTOR CANOPY	BOILER	3	RANIPET	BOILER-STRUCTURE	1A
225	1-55-032	PA STAIR & HAND RAIL	BOILER	2	RANIPET	BOILER-STRUCTURE	1A
226	1-55-039	PA FAN MOTOR CANOPY	BOILER	2.8	RANIPET	BOILER-STRUCTURE	1A
227	1-55-210	FD FAN LOS CANOPY	BOILER	1	RANIPET	BOILER-STRUCTURE	1A
228	1-55-220	ID FAN LOS CANOPY	BOILER	1.2	RANIPET	BOILER-STRUCTURE	1A
229	1-55-230	PA FAN LOS CANOPY	BOILER	1.2	RANIPET	BOILER-STRUCTURE	1A
230	1-57-466	PLATFORMS AND LADDERS	BOILER	83.95	RANIPET	BOILER-STRUCTURE	1A
231	PG-35	Boiler Supporting Structure	AUX BOILER	115	HPVP VIZAG	BOILER-STRUCTURE	1A
232	PG-36	Galleries and Stair Ways	AUX BOILER	55	HPVP VIZAG	BOILER-STRUCTURE	1A
233	PG-39	External Structures (Supporting Structures for ID System)	AUX BOILER	15	HPVP VIZAG	BOILER-STRUCTURE	1A
TOTAL WEIGHT-1A				18258.59			
234	1-04-321	VERTICAL SEPARATOR	BOILER	36.8	TRICHY	BOILER-PP	1B
235	1-04-323	STORAGE TANK	BOILER	60	TRICHY	BOILER-PP	1B
236	1-05-137	EVAPORATOR INLET HDR - FRNT	BOILER	15	TRICHY	BOILER-PP	1B
237	1-05-147	FUR LWR REAR INLET HDR	BOILER	15	TRICHY	BOILER-PP	1B
238	1-05-155	FUR LWR SIDE INLET HDRS	BOILER	14	TRICHY	BOILER-PP	1B
239	1-05-227	FUR UPPER REAR OUTLET HDR	BOILER	13	TRICHY	BOILER-PP	1B
240	1-05-231	FUR UPPER FRNT OUTLET HDR	BOILER	12	TRICHY	BOILER-PP	1B
241	1-05-251	FUR UPPER SIDE OUTLET HDRS	BOILER	25	TRICHY	BOILER-PP	1B
242	1-05-327	FUR INTERMEDIATE REAR HDR	BOILER	11.5	TRICHY	BOILER-PP	1B

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
243	1-05-330	FUR INTERMEDIATE FRNT HDR	BOILER	11.5	TRICHY	BOILER-PP	1B
244	1-05-350	FUR INTERMEDIATE SIDE HDRS	BOILER	23	TRICHY	BOILER-PP	1B
245	1-06-431	FRONT UPPER WW PANEL ATTACHMENT	BOILER	0.05	TRICHY	BOILER-PP	1B
246	1-06-451	SIDE UPPER WW PANEL ATTACHMENT	BOILER	0.15	TRICHY	BOILER-PP	1B
247	1-06-501	SOFA PANELS -OS	BOILER	0.2	TRICHY	BOILER-PP	1B
248	1-06-401	BURNER PANEL- OS	BOILER	0.25	TRICHY	BOILER-PP	1B
249	1-06-441	REAR UPPER WW PANEL -OS	BOILER	4	TRICHY	BOILER-PP	1B
250	1-06-500	FUR SOFA PANELS	BOILER	11	TRICHY	BOILER-PP	1B
251	1-06-745	FUR REAR SPIRAL TO VERT TRANSITION PANEL	BOILER	12	TRICHY	BOILER-PP	1B
252	1-06-735	FUR FRNT SPIRAL TO VERTICAL TRANS. PANEL	BOILER	13	TRICHY	BOILER-PP	1B
253	1-06-515	CORNER SOFA PANELS	BOILER	16	TRICHY	BOILER-PP	1B
254	1-06-455	SIDE LOWER WW PANEL -OS	BOILER	21	TRICHY	BOILER-PP	1B
255	1-06-759	FUR SIDE SPIRAL TO VERT TRANSITION PANEL	BOILER	24	TRICHY	BOILER-PP	1B
256	1-06-437	FRONT WW LOWER PANEL-OS	BOILER	40	TRICHY	BOILER-PP	1B
257	1-06-447	REAR LOWER WW PANEL -OS	BOILER	41	TRICHY	BOILER-PP	1B
258	1-06-741	FUR REAR ARCH PANELS	BOILER	42	TRICHY	BOILER-PP	1B
259	1-06-731	FUR VERTICAL WALL PANELS - FRNT	BOILER	43	TRICHY	BOILER-PP	1B
260	1-06-400	FUR BURNER PANELS	BOILER	51	TRICHY	BOILER-PP	1B
261	1-06-434	FRONT INTERMEDIATE WW PANEL -OS	BOILER	51.35	TRICHY	BOILER-PP	1B
262	1-06-444	REAR INTERMEDIATE WW PANEL -OS	BOILER	51	TRICHY	BOILER-PP	1B
263	1-06-732	FRONT WW PNL + ATT	BOILER	55	TRICHY	BOILER-PP	1B
264	1-06-737	FUR LWR FRNT SPRL PNL WITH I/T TERM TUBE	BOILER	63	TRICHY	BOILER-PP	1B
265	1-06-453	SIDE INTERMEDIATE WW PANEL -OS	BOILER	71	TRICHY	BOILER-PP	1B
266	1-06-755	FUR LWR SIDE SPIRAL PANELS	BOILER	76	TRICHY	BOILER-PP	1B
267	1-06-747	FUR LWR RR SPRL PNL WITH I/T TERM TUBES	BOILER	77	TRICHY	BOILER-PP	1B
268	1-06-751	FUR VERTICAL WALL PANELS - SIDE	BOILER	88	TRICHY	BOILER-PP	1B
269	1-06-734	FUR UPPER FRNT SPIRAL PANEL	BOILER	92	TRICHY	BOILER-PP	1B
270	1-06-744	FUR UPPER REAR SPIRAL PANEL	BOILER	92	TRICHY	BOILER-PP	1B
271	1-06-752	FUR LWR VERTICAL WALL PANELS - SIDE	BOILER	125	TRICHY	BOILER-PP	1B
272	1-06-753	FUR UPPER SIDE SPIRAL PANELS	BOILER	184	TRICHY	BOILER-PP	1B
273	1-07-102	LINKS FROM SEPARATOR TO STORAGE TANK	BOILER	50	TRICHY	BOILER-PP	1B
274	1-07-110	DOWNCOMER TO CONNECTING SPHERE	BOILER	16	TRICHY	BOILER-PP	1B
275	1-07-125	CONNECTING SPHERE	BOILER	5	TRICHY	BOILER-PP	1B
276	1-07-217	SCREEN RELIFE TUBES	BOILER	1	TRICHY	BOILER-PP	1B
277	1-07-231	FUR SPIRAL WALL OUTLET TERM TUBES	BOILER	3	TRICHY	BOILER-PP	1B
278	1-07-232	FUR VERTICAL WALL INLET TERM TUBES	BOILER	7	TRICHY	BOILER-PP	1B
279	1-07-315	FUR SIDE RISERS	BOILER	54	TRICHY	BOILER-PP	1B
280	1-07-316	FUR REAR RISERS	BOILER	34	TRICHY	BOILER-PP	1B
281	1-07-318	FUR FRNT RISERS	BOILER	19	TRICHY	BOILER-PP	1B
282	1-07-331	RISER TUBE SUPPORT DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
283	1-07-393	CONSUMABLES & ERECTION MATERIALS-DD	BOILER	0.1	TRICHY	BOILER-PP	1B
284	1-07-423	FURNACE SCREEN TUBES ATTACHMENT	BOILER	5.8	TRICHY	BOILER-PP	1B
285	1-07-509	MISC PR.PART COMPNTS	BOILER	1.4	TRICHY	BOILER-PP	1B
286	1-07-991	WELDING ELECTRODES-PART-1	BOILER	0.6	TRICHY	BOILER-PP	Non Billable
287	1-07-992	WELDING ELECTRODES	BOILER	0.3	TRICHY	BOILER-PP	Non Billable
288	1-07-993	EREC MATLS, CONSUMES	BOILER	1.7	TRICHY	BOILER-PP	1B
289	1-08-910	EX.MOVT MEAS COMP	BOILER	1.3	TRICHY	BOILER-PP	1B
290	1-08-911	BULK BPS ITEMS-UPPER	BOILER	0.3	TRICHY	BOILER-PP	1B
291	1-08-912	BULK BPS ITEMS-INTER	BOILER	2	TRICHY	BOILER-PP	1B
292	1-08-913	BULK BPS ITEMS-LOWER	BOILER	2.4	TRICHY	BOILER-PP	1B
293	1-09-003	MATL FOR INST TAPPG	BOILER	1	TRICHY	BOILER-PP	1B
294	1-09-004	SEAL BOX FURN OPENG	BOILER	17	TRICHY	BOILER-PP	1B
295	1-09-005	SEAL BOX INST OPENG	BOILER	3.5	TRICHY	BOILER-PP	1B
296	1-09-304	SEAL BOXES FOR FURNACE OPENINGS-DD	BOILER	0.5	TRICHY	BOILER-PP	1B
297	1-10-135	FUR ARCH SUPPPORT INLET HDR	BOILER	16	TRICHY	BOILER-PP	1B
298	1-10-174	FINISH SH INLET HDR	BOILER	18	TRICHY	BOILER-PP	1B
299	1-10-176	SH PLATEN FRONT INLET HEADER(S-26)	BOILER	22	TRICHY	BOILER-PP	1B
300	1-10-178	SH PLATEN INLET HDR	BOILER	18	TRICHY	BOILER-PP	1B
301	1-10-182	BP LWR REAR HDR	BOILER	17	TRICHY	BOILER-PP	1B
302	1-10-183	BP UPPER SIDE INLET HDR	BOILER	26	TRICHY	BOILER-PP	1B
303	1-10-184	BP EXTENDED SIDE INLET HDR	BOILER	13	TRICHY	BOILER-PP	1B
304	1-10-185	BP LWR FRNT HDR	BOILER	16	TRICHY	BOILER-PP	1B
305	1-10-191	SH FUR ROOF INLET HDR	BOILER	16	TRICHY	BOILER-PP	1B
306	1-10-235	FUR ARCH SUPPPORT OUTLET HDR	BOILER	15	TRICHY	BOILER-PP	1B
307	1-10-274	FINISH SH OUTLET HDR	BOILER	58	TRICHY	BOILER-PP	1B
308	1-10-276	SH PLATEN FRONT OUTLET HEADER(S-28)	BOILER	21	TRICHY	BOILER-PP	1B
309	1-10-278	SH PLATEN OUTLET HDR	BOILER	24	TRICHY	BOILER-PP	1B
310	1-10-283	BP LWR SIDE HDRS	BOILER	28	TRICHY	BOILER-PP	1B
311	1-10-284	BP EXT FLOOR OUTLET HDR WITH TERM TUBES	BOILER	11	TRICHY	BOILER-PP	1B
312	1-10-285	BP FRNT OUTLET HDR	BOILER	23	TRICHY	BOILER-PP	1B
313	1-10-291	SH FUR ROOF OUTLET HDR	BOILER	29	TRICHY	BOILER-PP	1B
314	1-11-074	FINISH SH FRNT ASSY WITH I/T TERM & COT	BOILER	415	TRICHY	BOILER-PP	1B
315	1-11-078	SH PLATEN ASSY WITH TERM TUBES - LEFT	BOILER	280	TRICHY	BOILER-PP	1B
316	1-11-374	FINISH SH REAR ASSY WITH O/T TERM & COT	BOILER	423	TRICHY	BOILER-PP	1B
317	1-11-378	SH PLATEN ASSY WITH TERM TUBES - RIGHT	BOILER	293	TRICHY	BOILER-PP	1B
318	1-11-406	SH FRNT UPPER PNL ATTACHMENT	BOILER	0.75	TRICHY	BOILER-PP	1B
319	1-11-467	SH SC SIDE PNL UPPER LEFT ATTACHMENT	BOILER	0.1	TRICHY	BOILER-PP	1B
320	1-11-469	SH SW PANELS LOWER FRONT (L&R)-OS	BOILER	0.1	TRICHY	BOILER-PP	1B
321	1-11-474	SH VERTICAL SPACED COIL ATTACHMENT	BOILER	1	TRICHY	BOILER-PP	1B
322	1-11-487	BP LTRH HANGER TUBE ATTCHMENT	BOILER	0.85	TRICHY	BOILER-PP	1B
323	1-11-491	SH RADIENT ROOF TUBES (LEFT)-OS	BOILER	0.1	TRICHY	BOILER-PP	1B

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
324	1-11-494	SH EXTENDED BOTTOM PANELS-OS	BOILER	0.1	TRICHY	BOILER-PP	1B
325	1-11-606	BP FRNT WALL PANELS	BOILER	33	TRICHY	BOILER-PP	1B
326	1-11-608	BP FRNT WALL PANEL - LWR	BOILER	62	TRICHY	BOILER-PP	1B
327	1-11-684	BP EXTENDED SIDE FIN WELDED PANEL	BOILER	40	TRICHY	BOILER-PP	1B
328	1-11-694	BP EXTENDED SIDE FLOOR FIN WELDED PANEL	BOILER	23	TRICHY	BOILER-PP	1B
329	1-11-716	BP UPPER REAR PANEL	BOILER	27	TRICHY	BOILER-PP	1B
330	1-11-717	SH REAR WALL PANEL INTER(LEFT)	BOILER	29	TRICHY	BOILER-PP	1B
331	1-11-718	BP LWR REAR PANEL	BOILER	32	TRICHY	BOILER-PP	1B
332	1-11-767	BP UPPER SIDE PANEL-LEFT	BOILER	42	TRICHY	BOILER-PP	1B
333	1-11-768	SH SIDE WALL PANELS INTER (FRONT)	BOILER	37	TRICHY	BOILER-PP	1B
334	1-11-769	BP LWR SIDE PANEL - LEFT	BOILER	43	TRICHY	BOILER-PP	1B
335	1-11-787	BP REAR ROOF PANELS	BOILER	33	TRICHY	BOILER-PP	1B
336	1-11-791	SH FUR ROOF FIN WELDED PANEL	BOILER	47	TRICHY	BOILER-PP	1B
337	1-11-916	SH REAR WALL PANELS UPPER (RIGHT)	BOILER	27	TRICHY	BOILER-PP	1B
338	1-11-917	SH REAR WALL PANEL INTER (RIGHT)	BOILER	29	TRICHY	BOILER-PP	1B
339	1-11-918	SHSC RR WL PNL LR RT	BOILER	32	TRICHY	BOILER-PP	1B
340	1-11-967	BP UPPER SIDE PANEL-RIGHT	BOILER	42	TRICHY	BOILER-PP	1B
341	1-11-968	SH SIDE WALL PANELS INTER (REAR)	BOILER	37	TRICHY	BOILER-PP	1B
342	1-11-969	BP LWR SIDE PANEL - RIGHT	BOILER	43	TRICHY	BOILER-PP	1B
343	1-11-987	SHSC RR ROOF PNL RT	BOILER	34	TRICHY	BOILER-PP	1B
344	1-11-991	SH FUR ROOF TUBES	BOILER	73	TRICHY	BOILER-PP	1B
345	1-12-178	LINK TO SH DESUPERHEATER	BOILER	36	TRICHY	BOILER-PP	1B
346	1-12-179	LINK TO FINISH SH INLET HDR	BOILER	38	TRICHY	BOILER-PP	1B
347	1-12-184	BP EXTENDED SIDE CONNECTION LINK	BOILER	33.5	TRICHY	BOILER-PP	1B
348	1-12-187	SH BYPASS PIPES	BOILER	14	TRICHY	BOILER-PP	1B
349	1-12-306	SH SPRT FOR LINES AND LINKS DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
350	1-12-348	SUSPN OF VERT. SPACED ASSY DD ITEM	BOILER	1.7	TRICHY	BOILER-PP	1B
351	1-12-368	RH VERT PLATEN FRNT COIL LEFT DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
352	1-12-393	SH MISC COMPONENTS DD ITEM	BOILER	0.3	TRICHY	BOILER-PP	1B
353	1-12-405	SH HANGER TUBE ATTACHMENT	BOILER	4.8	TRICHY	BOILER-PP	1B
354	1-12-600	SH DESUPERHEATER (S-01B)	BOILER	6.5	TRICHY	BOILER-PP	1B
355	1-12-800	SH DESUP-STAGE II	BOILER	6.4	TRICHY	BOILER-PP	1B
356	1-12-803	SH STEAM COOLED SPACER TUBES	BOILER	4.5	TRICHY	BOILER-PP	1B
357	1-12-805	BP FRNT WALL SCREEN TUBES	BOILER	54	TRICHY	BOILER-PP	1B
358	1-12-850	SH CONNECTING PIPE	BOILER	30	TRICHY	BOILER-PP	1B
359	1-12-852	LINKS TO SH PLATEN INLET HDR	BOILER	36	TRICHY	BOILER-PP	1B
360	1-12-862	DESH M/F(S-01A) ROOF I/T HDR CONN(S-01C)	BOILER	42	TRICHY	BOILER-PP	1B
361	1-12-900	SH DESUPERHEATER	BOILER	7.1	TRICHY	BOILER-PP	1B
362	1-12-903	SH MISCL COMPONENTS	BOILER	13	TRICHY	BOILER-PP	1B
363	1-12-906	SH LINK SUPPORTS	BOILER	1	TRICHY	BOILER-PP	1B
364	1-12-914	EXPN-SH RAD ROOF HDR	BOILER	1.9	TRICHY	BOILER-PP	1B
365	1-12-924	SUSPN-SH BAKPASS HDR	BOILER	14	TRICHY	BOILER-PP	1B
366	1-12-927	SUSPN OF REAR ROOF	BOILER	28	TRICHY	BOILER-PP	1B
367	1-12-991	WELDING ELECTRODES-PART-1	BOILER	0.5	TRICHY	BOILER-PP	Non Billable
368	1-12-992	WELDING ELECTRODES	BOILER	3.8	TRICHY	BOILER-PP	Non Billable
369	1-12-993	EREC MATLS, CONSUMES	BOILER	6	TRICHY	BOILER-PP	1B
370	1-12-994	PORT IN FOR THK MSMT	BOILER	0.1	TRICHY	BOILER-PP	1B
371	1-15-136	LTRH INLET HDR	BOILER	15.5	TRICHY	BOILER-PP	1B
372	1-15-178	FINISH RH INLET HDR	BOILER	30.5	TRICHY	BOILER-PP	1B
373	1-15-236	LTRH OUTLET HDR	BOILER	23	TRICHY	BOILER-PP	1B
374	1-15-278	FINISH RH OUTLET HDR	BOILER	38	TRICHY	BOILER-PP	1B
375	1-16-201	LTRH UPPER ASSEMBLY	BOILER	227	TRICHY	BOILER-PP	1B
376	1-16-202	LTRH INTERMEDIATE ASSEMBLY	BOILER	626	TRICHY	BOILER-PP	1B
377	1-16-203	LTRH LWR ASSEMBLY WITH INLET TERM TUBES	BOILER	631	TRICHY	BOILER-PP	1B
378	1-16-270	LTRH PENDANT ASSY WITH O/T TERM TUBES	BOILER	183	TRICHY	BOILER-PP	1B
379	1-16-278	FINISH RH ASSEMBLY WITH TERMINAL TUBES	BOILER	230	TRICHY	BOILER-PP	1B
380	1-16-379	RH VERPLN FR COIL RT	BOILER	15	TRICHY	BOILER-PP	1B
381	1-17-174	LINK TO RH DESUPERHEATER	BOILER	110	TRICHY	BOILER-PP	1B
382	1-17-304	RH SPRTS FOR LINES AND LINKS DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
383	1-17-306	RH SUPRT FOR LINES AND LINKS DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
384	1-17-319	RH FRNT SUSPENSION DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
385	1-17-407	RH SC SPACER TUBE ATTCHMENT	BOILER	0.1	TRICHY	BOILER-PP	1B
386	1-17-476	RH V.S. CENTRE CROSS OVER TUBE ATTCHMT	BOILER	6	TRICHY	BOILER-PP	1B
387	1-17-807	RH STM COOL SPACERS	BOILER	0.3	TRICHY	BOILER-PP	1B
388	1-17-900	RH DESUPERHEATER	BOILER	7	TRICHY	BOILER-PP	1B
389	1-17-903	RH MISCL COMPONENTS	BOILER	90	TRICHY	BOILER-PP	1B
390	1-17-904	RH HDR SUPRT AB ROOF	BOILER	10	TRICHY	BOILER-PP	1B
391	1-17-906	RH SUPRT LINES & LIN	BOILER	3	TRICHY	BOILER-PP	1B
392	1-17-919	RH FRONT SUSPENSION	BOILER	24	TRICHY	BOILER-PP	1B
393	1-17-991	WELDING ELECTRODES-PART-1	BOILER	1.1	TRICHY	BOILER-PP	Non Billable
394	1-17-992	WELDING ELECTRODES	BOILER	1.2	TRICHY	BOILER-PP	Non Billable
395	1-18-001	FUR ROOF SKIN CASING	BOILER	21	TRICHY	BOILER-PP	1B
396	1-18-002	1 PASS ROOF SKINCASG	BOILER	3	TRICHY	BOILER-PP	1B
397	1-18-010	PR PARTS ATTACH-CASG	BOILER	0.9	TRICHY	BOILER-PP	1B
398	1-18-701	FURNACE ROOF SKIN CASING BOI ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
399	1-19-092	ECO OUTLET TERM TUBES	BOILER	23.8	TRICHY	BOILER-PP	1B
400	1-19-306	ECO SUPPORTS FOR LINE & LINKS DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
401	1-19-307	ECO FEED PIPE SUSPN DD ITEM	BOILER	0.1	TRICHY	BOILER-PP	1B
402	1-19-402	ECO HANGER TUBE ATTACHMENT	BOILER	1.4	TRICHY	BOILER-PP	1B
403	1-19-701	ECO INLET HDR	BOILER	27	TRICHY	BOILER-PP	1B
404	1-19-702	ECO OUTLET HDR	BOILER	32	TRICHY	BOILER-PP	1B

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
405	1-19-704	ECO II INLET HEADER	BOILER	10	TRICHY	BOILER-PP	1B
406	1-19-753	ECO JUNCTION HDR	BOILER	10	TRICHY	BOILER-PP	1B
407	1-19-763	ECO JUNCTION HDR	BOILER	10	TRICHY	BOILER-PP	1B
408	1-19-783	ECO JUNCTION HDR	BOILER	10	TRICHY	BOILER-PP	1B
409	1-19-793	ECO JUNCTION HDR	BOILER	10	TRICHY	BOILER-PP	1B
410	1-19-802	ECO LWR HANGER TUBES	BOILER	340	TRICHY	BOILER-PP	1B
411	1-19-804	ECO UPPER HANGER TERMINAL TUBES	BOILER	35	TRICHY	BOILER-PP	1B
412	1-19-814	ECO UPPER ASSY - LEFT	BOILER	120	TRICHY	BOILER-PP	1B
413	1-19-824	ECO LWR ASSY -LEFT	BOILER	370	TRICHY	BOILER-PP	1B
414	1-19-850	ECO INLET LINKS	BOILER	130	TRICHY	BOILER-PP	1B
415	1-19-851	LINKS FROM ECO OUT. HDR TO ECO MIX LINE	BOILER	179	TRICHY	BOILER-PP	1B
416	1-19-852	ECO MIXING LINE	BOILER	30	TRICHY	BOILER-PP	1B
417	1-19-853	LINKS FROM ECO MIX LINE TO FURN I/T HDRS	BOILER	68	TRICHY	BOILER-PP	1B
418	1-19-884	ECO INTER ASSY - LEFT	BOILER	371	TRICHY	BOILER-PP	1B
419	1-19-903	ECO.MISCL COMP	BOILER	125	TRICHY	BOILER-PP	1B
420	1-19-904	ECO HDR SUPT AB ROOF	BOILER	146	TRICHY	BOILER-PP	1B
421	1-19-905	ECO HDR SUPT BL ROOF	BOILER	1.4	TRICHY	BOILER-PP	1B
422	1-19-906	ECO LINE&LINK SUPPORT	BOILER	28	TRICHY	BOILER-PP	1B
423	1-19-907	ECO,FEEDPIPE SUPPORT	BOILER	9	TRICHY	BOILER-PP	1B
424	1-19-914	ECO UPPER ASSY - RIGHT	BOILER	120	TRICHY	BOILER-PP	1B
425	1-19-924	ECO LWR ASSY-RIGHT	BOILER	370	TRICHY	BOILER-PP	1B
426	1-19-984	ECO INTER ASSY - RIGHT	BOILER	370	TRICHY	BOILER-PP	1B
427	1-19-991	WELDING ELECTRODES-PART-1	BOILER	0.1	TRICHY	BOILER-PP	Non Billable
428	1-19-992	WELDING ELECTRODES	BOILER	0.1	TRICHY	BOILER-PP	Non Billable
429	1-21-600	S.B. PPG & FITTINGS	BOILER	40	TRICHY	BOILER-PP	1B
430	1-21-602	SB PIPING - DD ITEMS	BOILER	3.6	TRICHY	BOILER-PP	1B
431	1-21-603	SB PIPING - BOI ITEMS	BOILER	0.06	TRICHY	BOILER-PP	1B
432	1-21-604	SB PIPING SUPPORTS - OS ITEMS	BOILER	10	TRICHY	BOILER-PP	1B
433	1-21-605	SB PIPING SUPPORTS - DD ITEMS	BOILER	0.01	TRICHY	BOILER-PP	1B
434	1-21-606	SB PIPING SUPPORTS - BOI ITEMS	BOILER	0.002	TRICHY	BOILER-PP	1B
435	1-21-800	SOOT BLOWER VALVES (BHEL)	BOILER	4.7	TRICHY	BOILER-PP	1B
436	1-21-825	SB VALVES (SUBDELY)	BOILER	1.3	TRICHY	BOILER-PP	1B
437	1-21-850	SB SAFETY VALVE BHEL	BOILER	0.06	TRICHY	BOILER-PP	1B
438	1-21-992	WELDING ELECTRODES	BOILER	0.25	TRICHY	BOILER-PP	Non Billable
439	1-24-350	BLR FILLING PIPING	BOILER	2.85	TRICHY	BOILER-PP	1B
440	1-24-352	BOILER FILL PIPING - DD ITEMS	BOILER	0.202	TRICHY	BOILER-PP	1B
441	1-24-354	BOI ITEMS FOR BLR TRIM PIPING	BOILER	0.002	TRICHY	BOILER-PP	1B
442	1-24-700	BULKED BPS COMP	BOILER	0.5	TRICHY	BOILER-PP	1B
443	1-24-800	BOILER TRIM PIPING	BOILER	51	TRICHY	BOILER-PP	1B
444	1-24-803	BOILER TRIM PIPING - DD ITEMS	BOILER	0.6	TRICHY	BOILER-PP	1B
445	1-24-805	LINK TO BOILER RECIRCU SYSTEM	BOILER	38	TRICHY	BOILER-PP	1B
446	1-24-806	MIXING VESSEL	BOILER	6.689	TRICHY	BOILER-PP	1B
447	1-24-807	RECIRCU PUMP SUCTION LINE	BOILER	38	TRICHY	BOILER-PP	1B
448	1-24-808	RECIRCU PUMP DISCHARGE LINE	BOILER	14	TRICHY	BOILER-PP	1B
449	1-24-809	BOILR RECIR LINK FROM BF LINE	BOILER	18	TRICHY	BOILER-PP	1B
450	1-24-811	FUR LINK TO FLASH TANK HWL1&2	BOILER	94	TRICHY	BOILER-PP	1B
451	1-24-814	BOI ITEMS FOR BOILER TRIM PPG	BOILER	21	TRICHY	BOILER-PP	1B
452	1-24-815	SPRAY WATER SYSTEM	BOILER	60	TRICHY	BOILER-PP	1B
453	1-24-820	EXHAUS PIPE SAFETY VLV	BOILER	74.276	TRICHY	BOILER-PP	1B
454	1-24-822	DE-SUPERHEATER PIPES - OS ITEMS	BOILER	1	TRICHY	BOILER-PP	1B
455	1-24-823	DE-SUPERHEATER PIPES - DD ITEMS	BOILER	1	TRICHY	BOILER-PP	1B
456	1-24-824	EXHAUST PIPE FOR SV - OS ITEMS	BOILER	14.682	TRICHY	BOILER-PP	1B
457	1-24-827	EXHAUST PIPE FOR SV - DD ITEMS	BOILER	1.694	TRICHY	BOILER-PP	1B
458	1-24-828	EXHAUST PIPE FOR SV - BOI ITEMS	BOILER	0.022	TRICHY	BOILER-PP	1B
459	1-24-835	STARTUP VENT DIFFUSER SILEN SUP	BOILER	1.87	TRICHY	BOILER-PP	1B
460	1-24-840	SAMPLE COOLER AND SUPPORTS	BOILER	0.857	TRICHY	BOILER-PP	1B
461	1-24-841	SAMPLE COOLER & SUPPORTS - OS ITEMS	BOILER	0.289	TRICHY	BOILER-PP	1B
462	1-24-842	SAMPLE COOLER AND SUPRTS-DD ITEMS	BOILER	0.019	TRICHY	BOILER-PP	1B
463	1-24-855	RECIRCULATING PUMB COMP	BOILER	19.7	TRICHY	BOILER-PP	1B
464	1-24-860	VALVES (BHEL)	BOILER	95	TRICHY	BOILER-PP	1B
465	1-24-865	CTL VALVES FOR SPRAY PIPING SD	BOILER	15	TRICHY	BOILER-PP	1B
466	1-24-867	CTL VAL FOR STARTUP RECIRCU SYS	BOILER	15	TRICHY	BOILER-PP	1B
467	1-24-880	SAFETY VALVES	BOILER	5.817	TRICHY	BOILER-PP	1B
468	1-24-881	SAFETY VALVES AND ERV(BHEL) SD	BOILER	2	TRICHY	BOILER-PP	1B
469	1-24-883	SAFETY VALVES (BHEL) - NON HT	BOILER	6.65	TRICHY	BOILER-PP	1B
470	1-24-950	SPECIAL TOOLS	BOILER	0.2	TRICHY	BOILER-PP	1B
471	1-24-966	NITROGEN BLANKETING SYSTEM PIPING	BOILER	2	TRICHY	BOILER-PP	1B
472	1-24-967	NITROGEN BLANKETING SYSTEM PIPING OS	BOILER	1.6	TRICHY	BOILER-PP	1B
473	1-24-968	NITROGEN BLANKETING SYSTEM PIPING DD	BOILER	0.2	TRICHY	BOILER-PP	1B
474	1-24-969	NITROGEN BLANKETING SYSTEM PIPING SD	BOILER	1.8	TRICHY	BOILER-PP	1B
475	1-24-992	WELDING ELECTRODES-TRIM PPG	BOILER	2	TRICHY	BOILER-PP	Non Billable
476	1-24-993	CONSUME & EREC MATLS	BOILER	0.2	TRICHY	BOILER-PP	1B
477	1-97-282	FLOWMETERS	BOILER	3.5	TRICHY	BOILER-PP	1B
478	1-97-297	MTM CLAMPS & PADS	BOILER	5	TRICHY	BOILER-PP	1B
479	1-12-506	SH SPRTT FOR LINES AND LINKS SHOP ITEM	BOILER	1.1	TRICHY	BOILER-PP	1B
480	1-17-504	RH SUPRTS FOR LINES AND LINKS SHOP ITEM	BOILER	9	TRICHY	BOILER-PP	1B
481	1-17-506	RH SUPRT FOR LINES AND LINKS SHOP ITEM	BOILER	3	TRICHY	BOILER-PP	1B
482	1-19-506	ECO SUPPORTS FOR LINE & LINKS SHOP ITEM	BOILER	48	TRICHY	BOILER-PP	1B
483	1-21-601	S.B PIPING SUPPORTS	BOILER	2	TRICHY	BOILER-PP	1B
484	1-21-700	BULKED BPS COMP	BOILER	0.6	TRICHY	BOILER-PP	1B
485	PG-04	Boiler Drum (s)	AUX BOILER	43	HPVP VIZAG	BOILER-PP	1B

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
486	PG-05	Water Wall Headers & Drums	AUX BOILER	4	HPVP VIZAG	BOILER-PP	1B
487	PG-06	Water Wall Panels	AUX BOILER	29	HPVP VIZAG	BOILER-PP	1B
488	PG-07	Circulation System Components	AUX BOILER	57	HPVP VIZAG	BOILER-PP	1B
489	PG-09	Seal Boxes	AUX BOILER	1	HPVP VIZAG	BOILER-PP	1B
490	PG-10	Superheater Headers	AUX BOILER	2.5	HPVP VIZAG	BOILER-PP	1B
491	PG-11	Superheater Coils and Walls	AUX BOILER	10	HPVP VIZAG	BOILER-PP	1B
492	PG-12	Superheater Components	AUX BOILER	11	HPVP VIZAG	BOILER-PP	1B
493	PG-18	Roof Skin Casing	AUX BOILER	1	HPVP VIZAG	BOILER-PP	1B
494	PG-19	Economiser	AUX BOILER	25	HPVP VIZAG	BOILER-PP	1B
495	PG-31	Boiler Skin Casing	AUX BOILER	10	HPVP VIZAG	BOILER-PP	1B
		TOTAL WEIGHT-1B		10908.55			
496	1-08-001	FURN UPR BKSTYS-F&R	BOILER	90	TRICHY	BOILER-NPP	1C
497	1-08-003	FURN UPR BKSTYS-SIDE	BOILER	250	TRICHY	BOILER-NPP	1C
498	1-08-006	FURN INT BKSTYS	BOILER	410	TRICHY	BOILER-NPP	1C
499	1-08-007	FURN LWR BKSTYS	BOILER	92	TRICHY	BOILER-NPP	1C
500	1-08-111	FURN REAR ARCH BKSTYS	BOILER	75	TRICHY	BOILER-NPP	1C
501	1-08-501	FURN B P BKSTYS-F&R	BOILER	249	TRICHY	BOILER-NPP	1C
502	1-08-503	FURN B P BKSTYS-SIDE	BOILER	300	TRICHY	BOILER-NPP	1C
503	1-08-901	FURN KEY BKSTYS-UPR	BOILER	13	TRICHY	BOILER-NPP	1C
504	1-20-051	LONG RETRACTABLE SOOT BLOWER	BOILER	96.615	TRICHY	BOILER-NPP	1C
505	1-20-054	WALL BOX NPR LR5B MI	BOILER	1.661	TRICHY	BOILER-NPP	1C
506	1-20-201	WALL DESLAGGER RW5E	BOILER	16.066	TRICHY	BOILER-NPP	1C
507	1-20-204	WALL BOX NPR-RW5E	BOILER	2.231	TRICHY	BOILER-NPP	1C
508	1-20-511	DA HEAD VALVE ASSY	BOILER	0.222	TRICHY	BOILER-NPP	1C
509	1-20-794	WALL BOX NPR FOR TP	BOILER	0.063	TRICHY	BOILER-NPP	1C
510	1-20-962	TR PROBE DUP PT&AC	BOILER	2.018	TRICHY	BOILER-NPP	1C
511	1-24-885	SILENCERS(BHEL)	BOILER	70.835	TRICHY	BOILER-NPP	1C
512	1-24-994	NAME PLATES	BOILER	0.271	TRICHY	BOILER-NPP	1C
513	1-28-220	DOORS	BOILER	14	TRICHY	BOILER-NPP	1C
514	1-28-700	BPS FASTENERS	BOILER	6	TRICHY	BOILER-NPP	1C
515	1-30-103	SEAL PLATE ASSY	BOILER	4.3	TRICHY	BOILER-NPP	1C
516	1-30-105	FUR BOTTOM ENCL FRAM	BOILER	59	TRICHY	BOILER-NPP	1C
517	1-30-212	FURNACE EXTD SIDE BOTTOM ENCLOSURE FRA	BOILER	24.1	TRICHY	BOILER-NPP	1C
518	1-30-215	MAIN BOILER ENCL	BOILER	46	TRICHY	BOILER-NPP	1C
519	1-30-219	VERT ROOF ENCL	BOILER	134.9	TRICHY	BOILER-NPP	1C
520	1-30-223	GAS DIST BAFFLES	BOILER	0.45	TRICHY	BOILER-NPP	1C
521	1-30-224	Antivibration Baffles	BOILER	46	TRICHY	BOILER-NPP	1C
522	1-30-233	IST PASS DECK SPRT	BOILER	55.65	TRICHY	BOILER-NPP	1C
523	1-30-234	2ND PASS DECK SPRT	BOILER	53.85	TRICHY	BOILER-NPP	1C
524	1-30-235	ENCL SUPPORT STEEL	BOILER	81.75	TRICHY	BOILER-NPP	1C
525	1-31-010	COMPS WELDED TO PR	BOILER	1.25	TRICHY	BOILER-NPP	1C
526	1-31-104	FUR REAR ARCH SKIN	BOILER	2.75	TRICHY	BOILER-NPP	1C
527	1-32-010	FICOM BLR PP INSUL	BOILER	10	TRICHY	BOILER-NPP	1C
528	1-41-350	ACOIL GUN ASSY	BOILER	0.7	TRICHY	BOILER-NPP	1C
529	1-41-390	OIL GUN VICE&RACK	BOILER	1.1	TRICHY	BOILER-NPP	1C
530	1-41-500	HEA IGNITOR	BOILER	0.9	TRICHY	BOILER-NPP	1C
531	1-41-710	OIL GUN ASSEMBLY - DD ITEMS	BOILER	0.002	TRICHY	BOILER-NPP	1C
532	1-42-001	PNEUMATIC FITTINGS	BOILER	0.1	TRICHY	BOILER-NPP	1C
533	1-42-002	STEAM BLOW MATERIALS	BOILER	1.2	TRICHY	BOILER-NPP	1C
534	1-42-005	INSTRUMENT FITTINGS	BOILER	0.06	TRICHY	BOILER-NPP	1C
535	1-42-046	DO PUMP-MOTOR ASSY	BOILER	0.2	TRICHY	BOILER-NPP	1C
536	1-42-065	DRAIN OIL TANK	BOILER	4.8	TRICHY	BOILER-NPP	1C
537	1-42-070	BURNER STATION SKID ASSY VALVES	BOILER	6.1	TRICHY	BOILER-NPP	1C
538	1-42-152	PIPING,OP.FLR LFO	BOILER	5.4	TRICHY	BOILER-NPP	1C
539	1-42-154	PIPING,OP.FLR DO	BOILER	0.5	TRICHY	BOILER-NPP	1C
540	1-42-157	PIPING,OP.FLR AIR	BOILER	1.5	TRICHY	BOILER-NPP	1C
541	1-42-200	SUB.DEL FO SYSTEM	BOILER	5	TRICHY	BOILER-NPP	1C
542	1-42-300	FUEL OIL SYSTEM VALVES	BOILER	0.5	TRICHY	BOILER-NPP	1C
543	1-42-700	BULKED BPS COMPONENT	BOILER	0.3	TRICHY	BOILER-NPP	1C
544	1-42-710	FUEL OIL SYSTEM - DD ITEMS	BOILER	1.2	TRICHY	BOILER-NPP	1C
545	1-42-858	FUEL OIL SYSTEM - SHOP ITEMS	BOILER	10	TRICHY	BOILER-NPP	1C
546	1-42-992	IMPORTED ELECTRODES	BOILER	0.025	TRICHY	BOILER-NPP	Non Billable
547	1-43-004	ASSY SCNR&GUN AIR SY	BOILER	4	TRICHY	BOILER-NPP	1C
548	1-43-005	ASSY MILL AIR SYSTEM	BOILER	25	TRICHY	BOILER-NPP	1C
549	1-43-104	M/C SCNR&GUN AIR SYS	BOILER	15	TRICHY	BOILER-NPP	1C
550	1-43-105	M/C MILL AIR SYSTEM	BOILER	70	TRICHY	BOILER-NPP	1C
551	1-43-200	SUBDEL,IGNR,SCNR AIR	BOILER	15	TRICHY	BOILER-NPP	1C
552	1-43-710	SEAL AIR & SCANNER AIR SYSTEM - DD ITEMS	BOILER	0.7	TRICHY	BOILER-NPP	1C
553	1-45-200	WINDBOX - SUB DELIVERY	BOILER	5.2	TRICHY	BOILER-NPP	1C
554	1-45-710	WIND BOX & SOFA ASSEMBLY - DD ITEMS	BOILER	0.1	TRICHY	BOILER-NPP	1C
555	1-45-801	WINDBOX AND SOFA TUBE ATTACH	BOILER	37	TRICHY	BOILER-NPP	1C
556	1-45-802	WINDBOX ASSEMBLY - 32" WIDTH	BOILER	190	TRICHY	BOILER-NPP	1C
557	1-45-804	WINDBOX - SOFA ASSEMBLY	BOILER	47	TRICHY	BOILER-NPP	1C
558	1-45-805	WINDBOX SUPPT AIR CYL MOUNTG	BOILER	41	TRICHY	BOILER-NPP	1C
559	1-47-200	FUEL PIPING - SUB-DELIVERY	BOILER	41	TRICHY	BOILER-NPP	1C
560	1-47-281	FUEL PIPE SUPPORTS	BOILER	35	TRICHY	BOILER-NPP	1C
561	1-47-283	FUEL PIPE MISC ITEMS	BOILER	5	TRICHY	BOILER-NPP	1C
562	1-47-289	ST PIPE SHOP BEND REST OF MILL	BOILER	460	TRICHY	BOILER-NPP	1C
563	1-47-710	PULVERISED FUEL PIPING - DD ITEMS	BOILER	4	TRICHY	BOILER-NPP	1C
564	1-48-012	DUCT - -FDFAN TO A.H	BOILER	187.862	TRICHY	BOILER-NPP	1C
565	1-48-014	EXP.JT - -FDFAN TO A.H	BOILER	11.644	TRICHY	BOILER-NPP	1C

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
566	1-48-015	SUPPORT-FDFAN TO A.H	BOILER	36.39	TRICHY	BOILER-NPP	1C
567	1-48-018	MISC. DUCT&SPRT MATL	BOILER	34.77	TRICHY	BOILER-NPP	1C
568	1-48-019	AIRDUCT SUP FDN MATL	BOILER	5.735	TRICHY	BOILER-NPP	1C
569	1-48-022	DUCT - FDFAN INTRCON	BOILER	12.88	TRICHY	BOILER-NPP	1C
570	1-48-112	DUCT - PAFAN-PRI-AH	BOILER	89.136	TRICHY	BOILER-NPP	1C
571	1-48-114	EXPJT - PAFAN-PRI-AH	BOILER	3.645	TRICHY	BOILER-NPP	1C
572	1-48-115	SUPPORT-PAFAN-PRI-AH	BOILER	25.626	TRICHY	BOILER-NPP	1C
573	1-48-116	DUCT MISC.	BOILER	12.88	TRICHY	BOILER-NPP	1C
574	1-48-141	SEAL AIR HAG&ID GATE	BOILER	7.25	TRICHY	BOILER-NPP	1C
575	1-48-142	DUCT - -COLDAIRBUS	BOILER	161.078	TRICHY	BOILER-NPP	1C
576	1-48-144	EXPJT - -COLDAIRBUS	BOILER	2.736	TRICHY	BOILER-NPP	1C
577	1-48-145	SUPPORT-COLDAIRBUS	BOILER	29.305	TRICHY	BOILER-NPP	1C
578	1-48-200	INS TAPPINGS ON DUCT	BOILER	5.884	TRICHY	BOILER-NPP	1C
579	1-48-202	DUCT - AH-WIND BOX	BOILER	273.997	TRICHY	BOILER-NPP	1C
580	1-48-204	EXPJT - AH-WIND BOX	BOILER	35.321	TRICHY	BOILER-NPP	1C
581	1-48-205	SUPPORT AH-WIND BOX	BOILER	82.707	TRICHY	BOILER-NPP	1C
582	1-48-207	FLOWMTR-SEC AIRFLOW	BOILER	33.333	TRICHY	BOILER-NPP	1C
583	1-48-208	DUCT-SEC.AIR TO WB	BOILER	78.116	TRICHY	BOILER-NPP	1C
584	1-48-212	DUCT - WIND BOX CONN	BOILER	119.139	TRICHY	BOILER-NPP	1C
585	1-48-214	EXPJT - WIND BOX CONN	BOILER	16.058	TRICHY	BOILER-NPP	1C
586	1-48-222	SQ DUCT AH-HOT AIR BUS	BOILER	336.71	TRICHY	BOILER-NPP	1C
587	1-48-224	EXPN PCS AH-HOT AIR BUS	BOILER	24.645	TRICHY	BOILER-NPP	1C
588	1-48-225	SUPPORT AH-HOT AIR BUS	BOILER	69.819	TRICHY	BOILER-NPP	1C
589	1-48-262	RECT DUCT AIHTR TOPRINOZZLE AND SECA	BOILER	104.729	TRICHY	BOILER-NPP	1C
590	1-48-264	EXPN PIECE AIHTR TOPRINOZZLE AND SECA	BOILER	27.881	TRICHY	BOILER-NPP	1C
591	1-48-265	SUPPORTS AIHTR TOPRINOZZLE AND SECA	BOILER	13.204	TRICHY	BOILER-NPP	1C
592	1-48-267	FLOW METER- SOFA	BOILER	5.027	TRICHY	BOILER-NPP	1C
593	1-48-372	DUCT - ECO HOPPER TO AH	BOILER	35.417	TRICHY	BOILER-NPP	1C
594	1-48-382	DUCT - ECO-HOPPER	BOILER	202.094	TRICHY	BOILER-NPP	1C
595	1-48-384	EXPNT - ECO-HOPPER	BOILER	63.161	TRICHY	BOILER-NPP	1C
596	1-48-385	SUPPORT - ECO-HOPPER	BOILER	159.25	TRICHY	BOILER-NPP	1C
597	1-48-386	DUCT - ECO TO ECO HOPPER	BOILER	472.258	TRICHY	BOILER-NPP	1C
598	1-48-432	DUCT - AH-BLROUTFL	BOILER	187.663	TRICHY	BOILER-NPP	1C
599	1-48-434	EXPJT - AH-BLROUTFL	BOILER	19.181	TRICHY	BOILER-NPP	1C
600	1-48-435	SUPPORT AH-BLROUTFL	BOILER	7.759	TRICHY	BOILER-NPP	1C
601	1-48-462	DUCT - BLROUTFL-EP	BOILER	534.43	TRICHY	BOILER-NPP	1C
602	1-48-464	EXPJT - BLROUTFL-EP	BOILER	46.36	TRICHY	BOILER-NPP	1C
603	1-48-465	SUPPORT BLR OUTFL-EP	BOILER	66.965	TRICHY	BOILER-NPP	1C
604	1-48-662	CIRCULAR DUCT HOT BUS MILLS	BOILER	141.777	TRICHY	BOILER-NPP	1C
605	1-48-664	EXPN PCS HOT BUS MILLS	BOILER	16.691	TRICHY	BOILER-NPP	1C
606	1-48-665	SUPPORTS HOT BUS MILLS	BOILER	18.75	TRICHY	BOILER-NPP	1C
607	1-48-667	FLOW METER	BOILER	29.59	TRICHY	BOILER-NPP	1C
608	1-48-700	BULKED BPS COMPONENT	BOILER	6.804	TRICHY	BOILER-NPP	1C
609	1-48-911	SLIDE BRG PL & PAC BELLOW-BLR	BOILER	4.462	TRICHY	BOILER-NPP	1C
610	1-48-912	SLIDE BRG PL-ID SYS	BOILER	3.312	TRICHY	BOILER-NPP	1C
611	1-48-915	MAN HOLE DOORS (450X450)	BOILER	19.32	TRICHY	BOILER-NPP	1C
612	1-48-993	ERECTON-MATERIALS	BOILER	55.15	TRICHY	BOILER-NPP	1C
613	1-95-088	FSSS FLAME SCANNER	BOILER	0.45	TRICHY	BOILER-NPP	1C
614	1-97-284	FIELD GAUGES	BOILER	0.4	TRICHY	BOILER-NPP	1C
615	1-97-298	MTM THERMOCOUPLES & JUNCTION BOXES	BOILER	10	TRICHY	BOILER-NPP	1C
616	1-97-585	ACO STM LEAK DET SYS	BOILER	1.5	TRICHY	BOILER-NPP	1C
617	1-97-590	ERECTION MATERIALS	BOILER	25	TRICHY	BOILER-NPP	1C
618	1-97-591	BURNER TILT SHEAR PIN FAILURE SYS.	BOILER	0.12	TRICHY	BOILER-NPP	1C
619	1-97-599	PNEU.ACTUR A&FG SYS	BOILER	6	TRICHY	BOILER-NPP	1C
620	1-45-858	WIND BOX & SOFA ASSY - SHOP ITEMS	BOILER	49	TRICHY	BOILER-NPP	1C
621	1-47-858	FUEL PIPING - SHOP ITEMS	BOILER	35	TRICHY	BOILER-NPP	1C
622	1-57-010	GATE-FD FAN OUTLET	BOILER	30	RANIPET	BOILER-NPP	1C
623	1-57-020	GATE-SA APH BYPASS	BOILER	3.75	RANIPET	BOILER-NPP	1C
624	1-57-023	DAMPER-SA APH BYPASS	BOILER	1.3	RANIPET	BOILER-NPP	1C
625	1-57-033	DAMPER-SA SCAPH INLET	BOILER	22	RANIPET	BOILER-NPP	1C
626	1-57-063	DAMPER-SA SCAPH OUTLET	BOILER	22	RANIPET	BOILER-NPP	1C
627	1-57-073	DAMPER-SA APH INLET	BOILER	1.5	RANIPET	BOILER-NPP	1C
628	1-57-083	DAMPER-SA SCAPH BYPASS	BOILER	22	RANIPET	BOILER-NPP	1C
629	1-57-110	GATE-PA FAN OUTLET	BOILER	23.8	RANIPET	BOILER-NPP	1C
630	1-57-141	SEAL AIR PIPING	BOILER	19.5	RANIPET	BOILER-NPP	1C
631	1-57-143	DAMPER-COLD AIR TO MILL	BOILER	8	RANIPET	BOILER-NPP	1C
632	1-57-160	GATE-COLD AIR TO MILLS	BOILER	18.5	RANIPET	BOILER-NPP	1C
633	1-57-173	DAMPER-PA APH INLET	BOILER	12.3	RANIPET	BOILER-NPP	1C
634	1-57-203	DAMPER-SA APH OUTLET	BOILER	32.8	RANIPET	BOILER-NPP	1C
635	1-57-209	MOUNTING BRACKET	BOILER	5.187	RANIPET	BOILER-NPP	1C
636	1-57-223	DAMPER-PA APH OUTLET	BOILER	15	RANIPET	BOILER-NPP	1C
637	1-57-270	GATE-HOT AIR TO MILLS	BOILER	29.3	RANIPET	BOILER-NPP	1C
638	1-57-273	DAMPER-HOT AIR TO MILL	BOILER	13.5	RANIPET	BOILER-NPP	1C
639	1-57-430	FLUE GAS AH OUT GATE	BOILER	67	RANIPET	BOILER-NPP	1C
640	1-57-460	GATE-ESP INLET	BOILER	79	RANIPET	BOILER-NPP	1C
641	1-57-491	BLOWER WITH MOTOR	BOILER	9.06666667	RANIPET	BOILER-NPP	1C
642	1-57-497	KGV & CHECK VALVE	BOILER	4.33333333	RANIPET	BOILER-NPP	1C
643	1-57-577	ELECT ACTUATOR FOR GATE,DAMPER	BOILER	33.64	RANIPET	BOILER-NPP	1C
644	1-57-578	ELECTRICAL ITEMS FOR GATE,DAMP	BOILER	0.056	RANIPET	BOILER-NPP	1C
645	1-57-623	DAMPER-SCR BYPASS	BOILER	45	RANIPET	BOILER-NPP	1C
646	1-57-666	PLATFORMS AND LADDERS-SCR GD	BOILER	2.8	RANIPET	BOILER-NPP	1C

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
647	1-57-A13	DAMPER-FD FAN OUTLET AUX BLR	AUX BOILER	2.5	RANIPET	BOILER-NPP	1C
648	1-57-A77	ELECTRIC ACTUATR-AUX	AUX BOILER	0.54	RANIPET	BOILER-NPP	1C
649	1-57-S41	SEAL AIR PIPING-SCR	BOILER	4.6	RANIPET	BOILER-NPP	1C
650	1-57-S77	ELECTRIC ACTUATR-SCR	BOILER	1.88	RANIPET	BOILER-NPP	1C
651	1-57-S78	ELECTRIC ITEM-SCR G&D	BOILER	0.014	RANIPET	BOILER-NPP	1C
652	1-57-S91	BLOWER WITH MOTR-SCR	BOILER	2.6	RANIPET	BOILER-NPP	1C
653	1-57-S97	KGV & CHECK VALV-SCR	BOILER	1.5	RANIPET	BOILER-NPP	1C
654	PG-08	Buck stays and Framing	AUX BOILER	4	HPVP VIZAG	BOILER-NPP	1C
655	PG-21	Soot Blower and Soot Blowing System	AUX BOILER	4	HPVP VIZAG	BOILER-NPP	1C
656	PG-28	Man Holes and Furnace Openings	AUX BOILER	2	HPVP VIZAG	BOILER-NPP	1C
657	PG-41	Oil and Gas Burners, Ignitors and Scanners	AUX BOILER	6	HPVP VIZAG	BOILER-NPP	1C
658	PG-42	Oil and Gas System	AUX BOILER	7	HPVP VIZAG	BOILER-NPP	1C
659	PG-48	Ducts, Dampers & Expansion Joints	AUX BOILER	100	HPVP VIZAG	BOILER-NPP	1C
660	PG-81	Tanks and Vessels (Pipe Lines)	AUX BOILER	57	HPVP VIZAG	BOILER-NPP	1C
661		SGIP Instruments : Flow Elements, LevelGauges:,Pressur	BOILER	1	PESD-HYD	BOILER-NPP	1C
662	1.1	Control Valves	BOILER	88	PESD-HYD	BOILER-NPP	1C
663	1.2	Flash Tank	BOILER	40	PESD-HYD	BOILER-NPP	1C
664	1.3	Flash Tank Drain Tank	BOILER	18	PESD-HYD	BOILER-NPP	1C
665	1.4	Emergency Cooling Water Storage Tank	BOILER	7	PESD-HYD	BOILER-NPP	1C
		TOTAL WEIGHT-1C		8177.88			
666	1-50-510	STEAM COIL A P H	BOILER	16	RANIPET	BOILER-APH	2A
667	1-52-010	LARG AH-ROTOR ASSY	BOILER	1410	RANIPET	BOILER-APH	2A
668	1-52-011	LARG AH-ROTOR POST	BOILER	53	RANIPET	BOILER-APH	2A
669	1-52-012	LARG AH-ROTORPINRACK	BOILER	7.5	RANIPET	BOILER-APH	2A
670	1-52-013	LARG AH-ROTORSEALS	BOILER	18.5	RANIPET	BOILER-APH	2A
671	1-52-030	LARG AH-ROTORHOUSING	BOILER	76	RANIPET	BOILER-APH	2A
672	1-52-041	HOT END CONN PLATE	BOILER	128.8	RANIPET	BOILER-APH	2A
673	1-52-042	COLD END CONN PLATE	BOILER	254	RANIPET	BOILER-APH	2A
674	1-52-054	LARG AH-AXIAL SEAL	BOILER	1.4	RANIPET	BOILER-APH	2A
675	1-52-055	LARG AH-BY PASS SEAL	BOILER	1.73	RANIPET	BOILER-APH	2A
676	1-52-100	LARGE AH ROTOR DRIVE	BOILER	14.5	RANIPET	BOILER-APH	2A
677	1-52-101	LARG AH-AUX ROTDRIVE	BOILER	10.5	RANIPET	BOILER-APH	2A
678	1-52-211	LARG AH-AIRSEAL PIPE	BOILER	0.8	RANIPET	BOILER-APH	2A
679	1-52-220	LARG AH-GENS DETAILS	BOILER	3.5	RANIPET	BOILER-APH	2A
680	1-52-261	LARG AH-GUIDE BEARNG	BOILER	8	RANIPET	BOILER-APH	2A
681	1-52-262	LARG AH-SUPRT BEARNG	BOILER	22	RANIPET	BOILER-APH	2A
682	1-52-271	OIL PIPING GUIDE BRG	BOILER	0.54	RANIPET	BOILER-APH	2A
683	1-52-272	OIL PIPING SUPRT BRG	BOILER	0.535	RANIPET	BOILER-APH	2A
684	1-52-274	LUB OIL CIRCULATION UNIT	BOILER	1.25	RANIPET	BOILER-APH	2A
685	1-52-275	LARGE AIR HEATER-LUBRICANTS	BOILER	1.9	RANIPET	BOILER-APH	2A
686	1-52-301	WASH MANIFLD GAS INL	BOILER	2.45	RANIPET	BOILER-APH	2A
687	1-52-302	WASH MANIFLD GAS OUT	BOILER	2.7	RANIPET	BOILER-APH	2A
688	1-52-338	LARGE AH-MULTIMEDI CLNG DEV-CE	BOILER	3.05	RANIPET	BOILER-APH	2A
689	1-52-339	LARGE AH-RETRACT CLNG DEV (HE)	BOILER	2	RANIPET	BOILER-APH	2A
690	1-52-341	L AH-HP PUMP WITH MOTOR	BOILER	3	RANIPET	BOILER-APH	2A
691	1-52-600	LARGE AH E,C&I COMPONENTS	BOILER	1.5	RANIPET	BOILER-APH	2A
		TOTAL WEIGHT-2A		2045.16			
692	1-65-200	COAL FEEDER- SUB-DELIVEY	BOILER	0.905	TRICHY	BOILER-ROTATING	2B
693	1-65-710	COAL FEEDER - DD ITEMS	BOILER	0.228	TRICHY	BOILER-ROTATING	2B
694	1-65-736	36GRAVIMETRIC FEEDER	BOILER	64.992	TRICHY	BOILER-ROTATING	2B
695	1-67-200	COAL FEEDING SYSTEM- SUB DELY.	BOILER	0.95	TRICHY	BOILER-ROTATING	2B
696	1-67-204	RAW COAL GATES	BOILER	4.1	TRICHY	BOILER-ROTATING	2B
697	1-67-272	BUNKER OUTLET GATE -36" MOTOR	BOILER	9.4	TRICHY	BOILER-ROTATING	2B
698	1-67-276	FEEDER INLET GATE- 36" CHAIN	BOILER	8.6	TRICHY	BOILER-ROTATING	2B
699	1-67-283	FEEDER OUTLET ISOLATION GATE	BOILER	11.5	TRICHY	BOILER-ROTATING	2B
700	1-67-710	COAL FEEDING SYSTEM - DD ITEMS	BOILER	0.5	TRICHY	BOILER-ROTATING	2B
701	1-67-801	DOWN SPOUT	BOILER	9.3	TRICHY	BOILER-ROTATING	2B
702	1-67-802	BUNKER EMPTYINGCHUTE	BOILER	32	TRICHY	BOILER-ROTATING	2B
703	1-67-803	FEED PIPE TO MILL	BOILER	29	TRICHY	BOILER-ROTATING	2B
704	1-55-000	FAN TOOL & FIXTURE	BOILER	0.5	RANIPET	BOILER-ROTATING	2B
705	1-55-011	FAN FIX MATERIAL	BOILER	1.2	RANIPET	BOILER-ROTATING	2B
706	1-55-015	FD FAN COUPLING GUARD	BOILER	0.05	RANIPET	BOILER-ROTATING	2B
707	1-55-017	FD FAN C&I ITEMS	BOILER	0.05	RANIPET	BOILER-ROTATING	2B
708	1-55-021	ID FAN FIX MATERIAL	BOILER	2	RANIPET	BOILER-ROTATING	2B
709	1-55-024	ID FAN C & S AIR FAN	BOILER	3	RANIPET	BOILER-ROTATING	2B
710	1-55-025	ID FAN CPLNG GUARD	BOILER	0.1	RANIPET	BOILER-ROTATING	2B
711	1-55-027	ID FAN C&I ITEMS	BOILER	0.05	RANIPET	BOILER-ROTATING	2B
712	1-55-031	PA FAN FIX MATERIAL	BOILER	1	RANIPET	BOILER-ROTATING	2B
713	1-55-035	PA FAN CPLNG GUARD	BOILER	0.1	RANIPET	BOILER-ROTATING	2B
714	1-55-037	PA FAN C&I ITEMS	BOILER	0.05	RANIPET	BOILER-ROTATING	2B
715	1-55-091	FIRST FILL LUBRICANT	BOILER	6.72	RANIPET	BOILER-ROTATING	2B
716	1-55-216	1 STG FD ROTOR	BOILER	7.5	RANIPET	BOILER-ROTATING	2B
717	1-55-328	2 STG ID ROTOR	BOILER	40	RANIPET	BOILER-ROTATING	2B
718	1-55-335	2 STG PA ROTOR	BOILER	8	RANIPET	BOILER-ROTATING	2B
719	1-55-410	FD SET & INDN SHAFT	BOILER	0.15	RANIPET	BOILER-ROTATING	2B
720	1-55-420	ID SET & INDN SHAFT	BOILER	0.15	RANIPET	BOILER-ROTATING	2B
721	1-55-430	PA SET & INDN SHAFT	BOILER	0.15	RANIPET	BOILER-ROTATING	2B
722	1-55-510	FD FAN EXPN JOINTS	BOILER	1.8	RANIPET	BOILER-ROTATING	2B
723	1-55-516	1 STG FD HOUSING	BOILER	18.6	RANIPET	BOILER-ROTATING	2B
724	1-55-520	ID FAN EXPN JOINTS	BOILER	2.3	RANIPET	BOILER-ROTATING	2B
725	1-55-530	PA FAN EXPN JOINTS	BOILER	1.25	RANIPET	BOILER-ROTATING	2B

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
726	1-55-628	2 STG ID HOUSING	BOILER	48.5	RANIPET	BOILER-ROTATING	2B
727	1-55-635	2 STG PA HOUSING	BOILER	9	RANIPET	BOILER-ROTATING	2B
728	1-55-716	FD FAN SUCTION BOX	BOILER	8.5	RANIPET	BOILER-ROTATING	2B
729	1-55-728	ID FAN SUCTION BOX	BOILER	24	RANIPET	BOILER-ROTATING	2B
730	1-55-735	PA FAN SUCTION BOX	BOILER	6	RANIPET	BOILER-ROTATING	2B
731	1-55-810	FD FAN COUPLING	BOILER	1.3	RANIPET	BOILER-ROTATING	2B
732	1-55-816	FD FAN DIFFUSER	BOILER	9.1	RANIPET	BOILER-ROTATING	2B
733	1-55-820	ID FAN COUPLING	BOILER	5.5	RANIPET	BOILER-ROTATING	2B
734	1-55-828	ID FAN DIFFUSER	BOILER	18.8	RANIPET	BOILER-ROTATING	2B
735	1-55-830	PA FAN COUPLING	BOILER	1.4	RANIPET	BOILER-ROTATING	2B
736	1-55-835	PA FAN DIFFUSER	BOILER	5.5	RANIPET	BOILER-ROTATING	2B
737	1-55-910	FD FAN LUBE OIL SYS	BOILER	2.8	RANIPET	BOILER-ROTATING	2B
738	1-55-911	FD FAN SILENCER	BOILER	70.5	RANIPET	BOILER-ROTATING	2B
739	1-55-919	FD FAN INSUL WOOL	BOILER	16.5	RANIPET	BOILER-ROTATING	2B
740	1-55-920	ID FAN LUBE OIL SYS	BOILER	6.25	RANIPET	BOILER-ROTATING	2B
741	1-55-930	PA FAN LUBE OIL SYS	BOILER	4.6	RANIPET	BOILER-ROTATING	2B
742	1-55-931	PA FAN SILENCER	BOILER	59	RANIPET	BOILER-ROTATING	2B
743	1-55-939	PA FAN INSUL WOOL	BOILER	11	RANIPET	BOILER-ROTATING	2B
744	1-56-002	AUX. FD STAIR HAND RAIL	AUX BOILER	1.2	RANIPET	BOILER-ROTATING	2B
745	1-56-005	AUX. FD FAN CPLNG GUARD	AUX BOILER	0.04	RANIPET	BOILER-ROTATING	2B
746	1-56-009	AUX. FD FAN MOTOR CANOPY	AUX BOILER	0.6	RANIPET	BOILER-ROTATING	2B
747	1-56-072	SA STAIR & HAND RAIL	BOILER	1.2	RANIPET	BOILER-ROTATING	2B
748	1-56-075	SA FAN CPLNG GUARD	BOILER	0.06	RANIPET	BOILER-ROTATING	2B
749	1-56-079	SA FAN MTR CANOPY	BOILER	0.35	RANIPET	BOILER-ROTATING	2B
750	1-56-104	AUX. FD FAN ROTOR	AUX BOILER	2.25	RANIPET	BOILER-ROTATING	2B
751	1-56-173	SA FAN ROTOR	BOILER	1.7	RANIPET	BOILER-ROTATING	2B
752	1-56-300	AUX. FD BEARING HSG ACC	AUX BOILER	0.85	RANIPET	BOILER-ROTATING	2B
753	1-56-370	SA BEARING HSG & ACC	BOILER	0.33	RANIPET	BOILER-ROTATING	2B
754	1-56-404	AUX. FD FAN STATOR	AUX BOILER	8.25	RANIPET	BOILER-ROTATING	2B
755	1-56-473	RADIAL SEAL AIR FAN STATOR	BOILER	7.6	RANIPET	BOILER-ROTATING	2B
756	1-56-670	RADIAL SEAL AIR FAN MOTOR	BOILER	2.6	RANIPET	BOILER-ROTATING	2B
757	1-56-800	AUX.FD FAN COUPLING	AUX BOILER	0.06	RANIPET	BOILER-ROTATING	2B
758	1-56-870	SEAL AIR FAN COUPLING(RADIAL)	BOILER	0.04	RANIPET	BOILER-ROTATING	2B
759		Condensate Pumps (Horizontal, Centrifugal)	BOILER	7	PESD-HYD	BOILER-ROTATING	2B
760		Emergency Cooling Water Fill Pumps (Horizontal, Centrifugal)	BOILER	2	PESD-HYD	BOILER-ROTATING	2B
761	061010009	JOURNAL HEAD, HP 1103, MACHINED		64.8	HYDERABAD-HPEP	BOILER-ROTATING	2B
762	061110016	PGB ASSEMBLY		143.37	HYDERABAD-HPEP	BOILER-ROTATING	2B
763	161010016	JOURNAL HEAD LINER ASSLY.		8.64	HYDERABAD-HPEP	BOILER-ROTATING	2B
764	161010016	JOURNAL SKIRT ASSLY.		1.998	HYDERABAD-HPEP	BOILER-ROTATING	2B
765	161010018	JOURNAL SHAFT ASSLY		167.616	HYDERABAD-HPEP	BOILER-ROTATING	2B
766	161110018	BOWL HUB & VANE WHEEL ASSEMBLY		165.114	HYDERABAD-HPEP	BOILER-ROTATING	2B
767	161210028	MILLSIDE ASSEMBLY		171	HYDERABAD-HPEP	BOILER-ROTATING	2B
768	161310016	JOURNAL SPRING ASSLY, HP 1103		35.235	HYDERABAD-HPEP	BOILER-ROTATING	2B
769	161310018	DRIVE ASSEMBLY		21.798	HYDERABAD-HPEP	BOILER-ROTATING	2B
770	161310028	MULTIPLE PORT OUTLET PLATE ASSY		38.97	HYDERABAD-HPEP	BOILER-ROTATING	2B
771	161501090	250 LPM MILL LUBE OIL SYSTEM WITH TANK		45	HYDERABAD-HPEP	BOILER-ROTATING	2B
772	361310043	SEPARATOR TOP ASSEMBLY		46.188	HYDERABAD-HPEP	BOILER-ROTATING	2B
773	361310044	SEPARATOR BODY AND JOC ASSEMBLY		272.376	HYDERABAD-HPEP	BOILER-ROTATING	2B
774	BA9716832	ROTOR AND ROTOR SUPPORT ASSY HP1103		20.772	HYDERABAD-HPEP	BOILER-ROTATING	2B
775	BA9755039	Mill Handling System (Main Girders & End Carriage Assembly)		31	HYDERABAD-HPEP	BOILER-ROTATING	2B
776	BA9756156	GEARBOX FOR DYNAMIC CLASSIFIER		4.725	HYDERABAD-HPEP	BOILER-ROTATING	2B
777	BA9756277	VFD FOR DYNAMIC CLASSIFIER		4.5	HYDERABAD-HPEP	BOILER-ROTATING	2B
778	BA9756323	MOTOR FOR DYNAMIC CLASSIFIER		4.455	HYDERABAD-HPEP	BOILER-ROTATING	2B
779	BA9756658	KGV ASSY & ACCESSORIES (HP1103) (26")		10.8	HYDERABAD-HPEP	BOILER-ROTATING	2B
780	BA9758063	MILL MOTOR COUPLING-HP1103 (DC)		2.7	HYDERABAD-HPEP	BOILER-ROTATING	2B
781		ID Fan		92	BHOPAL	BOILER-ROTATING	2B
782		FD Fan		37	BHOPAL	BOILER-ROTATING	2B
783		PA Fan		36	BHOPAL	BOILER-ROTATING	2B
784		Mill		94.5	BHOPAL	BOILER-ROTATING	2B
		TOTAL WEIGHT-2B		2131.13			
785	1-33-021	BLR PP MINRL WOOL	BOILER	1040	TRICHY	INSULATION-WOOL	3A
786	1-33-221	DUCT MINERAL WOOL	BOILER	797	TRICHY	INSULATION-WOOL	3A
787	1-33-924	MISC EQPTS PCK MATLS	BOILER	0.5	TRICHY	INSULATION-WOOL	3A
788	1-33-971	MISC EQPTS WW CLOTH	BOILER	1.5	TRICHY	INSULATION-WOOL	3A
789	1-33-975	MISC EQPTS SEAL COMP	BOILER	1	TRICHY	INSULATION-WOOL	3A
790	1-56-909	AUX. FD FAN INSUL WOOL	AUX BOILER	1.7	RANIPET	INSULATION-WOOL	3A
791	PG-33	Lining and Insulation Materials	AUX BOILER	75	HPVP VIZAG	INSULATION-WOOL	3A
792	80-318, 80-325, 80-350	Insulation & Associated components	BOILER	115	PESD-HYD	INSULATION-WOOL	3A
793		LRB Mattress		10	PEM	INSULATION-WOOL	3A
		TOTAL WEIGHT-3A		2041.7			
794	1-33-210	MAIN BLR CAST REF GR	BOILER	190	TRICHY	INSULATION-REFRACTORY	3B
795	1-33-230	MAIN BLR POUR INSUL	BOILER	97	TRICHY	INSULATION-REFRACTORY	3B
		TOTAL WEIGHT-3B		287			
796	1-32-210	FIX COMP-DUCT INSULN	BOILER	40	TRICHY	INSULATION-IRON	3C
797	1-32-700	BULKED DD COMPONENT	BOILER	48.5	TRICHY	INSULATION-IRON	3C
798	1-33-970	MISC EQPTS EXP METAL	BOILER	10	TRICHY	INSULATION-IRON	3C
799	PG-30	Fixing Components for Main Boiler Lining and Insulation	AUX BOILER	5	HPVP VIZAG	INSULATION-IRON	3C

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
800	PG-32	Fixing Components for Boiler Auxiliaries Insulation	AUX BOILER	4	HPVP VIZAG	INSULATION-IRON	3C
801		Ancillary Material		0.8	PEM	INSULATION-IRON	3C
		TOTAL WEIGHT-3C		108.3			
802	1-32-810	EQUIPMENT OUTER CASING	BOILER	160	TRICHY	INSULATION-AL	3D
803	1-37-010	BLR OUTER CSG COMPS	BOILER	41	TRICHY	INSULATION-AL	3D
804	1-37-810	BLR OUTER CASING	BOILER	46	TRICHY	INSULATION-AL	3D
805	PG-37	Boiler Outer Casing	AUX BOILER	5	HPVP VIZAG	INSULATION-AL	3D
806		Aluminium Sheet		2	PEM	INSULATION-AL	3D
		TOTAL WEIGHT-3D		254			
807	PG-80	External Pipe Lines	AUX BOILER	22	HPVP VIZAG	HP-PIPING	4B
		TOTAL WEIGHT-4B		22			
808	PG-24	Boiler Integral Piping and Fittings	AUX BOILER	13	HPVP VIZAG	LP-PIPING	4C
809	80-342	Aux Steam to SCAPH	BOILER	13	PESD-HYD	LP-PIPING	4C
810	80-343	Aux Steam to Sootblowers	BOILER	7	PESD-HYD	LP-PIPING	4C

Detailed (PGMA wise) weight of BOQ for Package A-Ukai Project- (Rev-02)							
SL. NO.	NS-PGMA	Description (Package A)	AREA	Est WT (in MT)	UNIT	Category	SCH
811	80-351	Aux Steam to Unlisted Users SG Scope (Mill Inerting)	BOILER	26	PESD-HYD	LP-PIPING	4C
812	80-370	HP Drain Flash Tank Vent to Atmosphere	BOILER	76	PESD-HYD	LP-PIPING	4C
813	80-451	Boiler Integral Piping Drains	BOILER	11	PESD-HYD	LP-PIPING	4C
814	80-451	Boiler Integral Piping Drains	BOILER	28	PESD-HYD	LP-PIPING	4C
815	80-545	LP Condensate Piping to HP Flash Tank	BOILER	54	PESD-HYD	LP-PIPING	4C
816	80-453	LP Piping Drains SG Scope	BOILER	18	PESD-HYD	LP-PIPING	4C
817	80-454	Drains from SCAPH	BOILER	3	PESD-HYD	LP-PIPING	4C
818	80-460	SG Aux Cooling Water Piping	BOILER	113	PESD-HYD	LP-PIPING	4C
819	80-460	SG Aux Cooling Water Piping	BOILER	2	PESD-HYD	LP-PIPING	4C
820	80-471	Boiler Wash Water to & from Unit	BOILER	42	PESD-HYD	LP-PIPING	4C
821	80-480	Fire Water Other Areas	BOILER	48	PESD-HYD	LP-PIPING	4C
822	80-612	Service Air Piping	BOILER	32	PESD-HYD	LP-PIPING	4C
823	80-616	Instrument Air Piping	BOILER	32	PESD-HYD	LP-PIPING	4C
824	80-901	SD Valves & Specialities	BOILER	10	PESD-HYD	LP-PIPING	4C
		TOTAL WEIGHT-4C		528			
825	1-83-399	STEAM BLOWING PIPING-TEMPORARY	BOILER	60	TRICHY	TEMP-PIPING	4D
826	1-83-604	ACID CLEANING PIPING-TEMPORARY	BOILER	100	TRICHY	TEMP-PIPING	4D
827	1-83-926	H AND S FOR TEMPORARY PIPING ACID AND AL	BOILER	10	TRICHY	TEMP-PIPING	4D
828	1-83-927	H AND S FOR TEMPORARY PIPING - STEAM BLO	BOILER	4	TRICHY	TEMP-PIPING	4D
		TOTAL WEIGHT-4D		174			
829	1-04-147	SUPPRTS FOR COLLECTR & SEPARATR VESSEL	BOILER	20	TRICHY	H&S	4I
830	1-04-347	SEPERATOR/COLLECTING VESSEL SUPP DD	BOILER	0.2	TRICHY	H&S	4I
831	1-07-223	FUR SCREEN AND HANGER ASSEMBLY	BOILER	98	TRICHY	H&S	4I
832	1-07-309	FURNACE WALL SUPPORTS FRONT-DD	BOILER	1.5	TRICHY	H&S	4I
833	1-07-360	FURNACE SPIRAL WALL SUPPORT DD ITEM	BOILER	0.1	TRICHY	H&S	4I
834	1-07-361	FURNACE WALL SUPPORT REAR DD ITEM	BOILER	0.3	TRICHY	H&S	4I
835	1-07-362	FURNACE WALL SUPPORT SIDE L&R DD ITEM	BOILER	0.6	TRICHY	H&S	4I
836	1-07-402	WW FRT HDR SUSPN	BOILER	5.4	TRICHY	H&S	4I
837	1-07-403	WW SIDE HDR SUSPN	BOILER	3	TRICHY	H&S	4I
838	1-07-405	WW SCR.HDR SUSPN.	BOILER	12	TRICHY	H&S	4I
839	1-07-409	FURNACE WALL SUPPORTS FRONT	BOILER	43	TRICHY	H&S	4I
840	1-07-431	RISER TUBE SUPPORT	BOILER	8	TRICHY	H&S	4I
841	1-07-460	FURNACE SPIRAL WALL SUPPORTS MISC ITEMS	BOILER	29	TRICHY	H&S	4I
842	1-07-461	FURNACE WALL SUPPORTS REAR	BOILER	33	TRICHY	H&S	4I
843	1-07-462	FURNACE WALL SUPPORTS SIDES L & R	BOILER	33	TRICHY	H&S	4I
844	1-08-380	FURN BOT SUPRTS	BOILER	450	TRICHY	H&S	4I
845	1-12-181	FUR ARCH SUPPORT LINKS	BOILER	15	TRICHY	H&S	4I
846	1-12-314	SUSPN OF SH R.ROOF HEADERS DD ITEM	BOILER	0.5	TRICHY	H&S	4I
847	1-12-317	SUSPN OF R.ROOF HEADERS DD ITEM	BOILER	0.1	TRICHY	H&S	4I
848	1-12-324	SUSPENSION OF SH REAR WALL DD ITEMS	BOILER	0.1	TRICHY	H&S	4I
849	1-12-327	SUSPENSION OF SH REAR WALL DD ITEMS	BOILER	0.6	TRICHY	H&S	4I
850	1-12-328	SUSPENSION OF SH REAR WALL DD ITEMS	BOILER	0.6	TRICHY	H&S	4I
851	1-12-344	SUSPN OF VERT. SPACED ASSY DD ITEM	BOILER	0.05	TRICHY	H&S	4I
852	1-12-354	SUSPN OF VERT. SPACED ASSY DD ITEM	BOILER	0.05	TRICHY	H&S	4I
853	1-12-907	RAD&RR ROOF SUPPORTS	BOILER	9.2	TRICHY	H&S	4I
854	1-12-917	SUSPN OF RADINT ROOF	BOILER	28	TRICHY	H&S	4I
855	1-12-928	SUSPN - SH REAR WALL	BOILER	33.5	TRICHY	H&S	4I
856	1-12-944	SUSPN-SH PLATEN HDRS	BOILER	3.5	TRICHY	H&S	4I
857	1-12-948	SUSP-VERT SPACD ASSY	BOILER	49	TRICHY	H&S	4I
858	1-12-954	SUSP-VERT SPACD HDRS	BOILER	5.7	TRICHY	H&S	4I
859	1-12-968	SUSPN OF PLATEN ASSY	BOILER	33	TRICHY	H&S	4I
860	1-24-351	H&S BLR FILLING PPG	BOILER	0.086	TRICHY	H&S	4I
861	1-24-353	H&S FOR BOILER FILL PIPING - OS ITEMS	BOILER	0.826	TRICHY	H&S	4I
862	1-24-804	SUPPORTS - BLR TRIM PIPING - OS ITEMS	BOILER	44	TRICHY	H&S	4I
863	1-24-813	SUPPORTS - BLR TRIM PIPING - DD ITEMS	BOILER	0.015	TRICHY	H&S	4I
864	1-24-817	H&S FOR START-UP SYSTEM - OS ITEMS	BOILER	16.5	TRICHY	H&S	4I
865	1-24-818	H&S FOR START-UP SYSTEM - DD ITEMS	BOILER	0.3	TRICHY	H&S	4I
866	1-24-825	SILENCER SUPPORTS	BOILER	0.063	TRICHY	H&S	4I
867	1-24-826	SILENCER SUPP - OS ITEMS	BOILER	23.956	TRICHY	H&S	4I
868	1-24-836	START-UP VENT, DIFFUSER, SIL SUPP-OS	BOILER	11.069	TRICHY	H&S	4I
869	1-24-837	START-UP VENT, DIFFUSER, SIL SUPP-DD	BOILER	0.017	TRICHY	H&S	4I
870	1-48-206	CLH/VLH -HOT AIR	BOILER	15.151	TRICHY	H&S	4I
871	1-04-547	SEPERATOR/COLLECTING VESSEL SUPP SHOP	BOILER	2	TRICHY	H&S	4I
872	1-07-502	WW FRONT HEADER SUSPN SHOP ITEM	BOILER	1	TRICHY	H&S	4I
873	1-07-503	WW SIDE HEADER SUSPENSION SHOP ITEM	BOILER	1.5	TRICHY	H&S	4I
874	1-07-531	RISER TUBE SUPPORT SHOP ITEM	BOILER	6.8	TRICHY	H&S	4I
875	1-07-560	FURNACE SPIRAL WALL SUPPORT SHOP ITEM	BOILER	5.8	TRICHY	H&S	4I
876	1-12-514	SUSPN OF SH R.ROOF HDRS SHOP ITEM	BOILER	3.5	TRICHY	H&S	4I
877	1-12-517	SUSPN OF R.ROOF HEADERS SHOP ITEM	BOILER	9.2	TRICHY	H&S	4I
878	1-12-524	SUSPENSION OF SH REAR WALL SHOP ITEM	BOILER	2.1	TRICHY	H&S	4I
879	1-12-528	SUSPENSION OF SH REAR WALL SHOP ITEM	BOILER	2.9	TRICHY	H&S	4I
880	1-12-544	SUSPN OF VERT. SPACED ASSY SHOP ITEM	BOILER	4	TRICHY	H&S	4I
881	1-12-554	SUSPN OF VERT. SPACED ASSY SHOP ITEM	BOILER	5	TRICHY	H&S	4I
882	1-19-507	ECO FEED PIPE SUSPN SHOP ITEM	BOILER	30	TRICHY	H&S	4I
883	1-24-801	SUPPORTS-TRIM PIPING	BOILER	6	TRICHY	H&S	4I
884	1-24-810	H AND S FOR STARTUP SYSTEM	BOILER	28	TRICHY	H&S	4I
885	1-48-395	CLH/VLH-FLUE GAS	BOILER	15.151	TRICHY	H&S	4I
886	80-921	H & S for SG Integral Piping	BOILER	160	PESD-HYD	H&S	4I
		TOTAL WEIGHT-4I		1310.93			
		TOTAL WEIGHT OF PGMA LIST		46247.24			



05-290

SUMMARY LIST OF SITE ELECTRODES

From

Sr.Manager
Engineering
DT: 25-01-2025

To

The Construction Manager
Project: NTPC – TALCHER
Auxiliary Boiler

Project: NTPC-TALCHER AUXILIARY BOILER
Customer No:7936
P.G. No: 21
P.G. Name: SOOT BLOWER PIPING AND SUPPORTS

SL.NO.	TYPE OF ELECTRODE/WIRE	SIZE & QTY IN NOS.				TIG WIRE WT IN KG.	REMARKS.
		D 1.6	D 3.15	D 4.00	D 5.00		
01	ER 70S-A1	✓				1.150	
02	E 7018		793				

NOTES

1. RESERVE 25% ADDED.
 2. QUANTITY GIVEN IS PER BOILER.
 3. THIS ERECTION WELDING SCHEDULE IS FOR REFERENCE PURPOSE ONLY.
- ENCL: ERECTION WELDING SCHEDULE SHEETS: 4-21-992-U0089 & 4-21-992-U0090

C.C 1. PROJECT COORDINATOR : Shri. P. GOPI KISHORE, Commercial-Project Management group
2. W.T.CENTRE. Shri. PVD Ramesh , Welding Technology

DRG NO.

4-21-992-U0088

REV
00

Revision	Prepared	Checked	Checked/WTC	Approved/WTC	Date	SHEET No.
00	USHARANI	SMG NAIDU	D L KRISHNA/ PVD RAMESH	Tarakesh Kanakala	25-01-2025	01 / 01



ERECTION WELDING SCHEDULE.

Pressure Parts – Boiler Mountings – Soot Blower Piping & Supports

PROJECT

NTPC–TALCHER
Auxiliary Boiler

Sale Order No.

7936

PRODUCT GROUP

21

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS
01	1–21–600–U0018	REDUCER + CONDENSING LOOP (OR) PIPE	SA234WPB+ SA106GR.B	D21.3	4.78	4.78V	ER 70S A1	TIG	Ø1.6	3 Nos	90 grams	↑	–	10% RT MIN. 1WELD/WELDER
														T.1.1.29.R01
02	1–21–600–U0018	PIPE+PIPE (OR) BW CON.RED(OR) ORIFICE PLATE	SA106GR.B+ SA106GR.B(OR) SA234WPB	D33.4	4.55	4.55V	ER 70S A1 + E 7018	TIG + ARC	Ø1.6 + Ø3.15	14 Nos	125 grams + 24 Nos.	AS PER WPS	–	10% RT MIN. 1WELD/WELDER
														T.M.1.1.50.R02
03	1–21–600–U0018	PIPE+VALVE(OR) TEE/ELBOW	SA106GR.B+ SA105	D33.4	4.55	5D	E7018	ARC	Ø3.15	36 NOS	30 Nos.	AS PER WPS	–	10% MPI OR LPI
														M.1.1.01.R01
04	1–21–600–U0018	PIPE+PIPE (OR) REDUCER(OR) BEND (FABRICATED AT SITE)	SA106 Gr.B+ SA106 Gr.B(OR) SA234WPB	D60.3	5.54	5.54V	ER 70S A1 + E 7018	TIG + ARC	Ø1.6 + Ø3.15	33 Nos	700 grams + 110 Nos.	AS PER WPS	–	10% RT MIN. 1WELD/WELDER
														T.M.1.1.50.R02
05	1–21–600–U0018	PIPE+VALVE (OR) ELL. (OR)SB INLET	SA106GR.B+ SA105 BMC16	D60.3	5.54	6D	E 7018	ARC	Ø3.15	53 Nos	75 Nos.	AS PER WPS	–	10% MPI OR LPI
														M.1.1.01.R01
06	1–21–600–U0018	PIPE+VALVE (OR) FLG.	SA106GR.B+ SA105	D21.3	4.48	5D	E7018	ARC	Ø3.15	3 Nos	2 Nos.	AS PER WPS	–	10% MPI OR LPI
														M.1.1.01.R01
REV.	PREPARED	CHECKED DESIGN	CHECKED WTC	APPROVED		DATE	DRG NO.			REV				
00	USHA RANI	SMG NAIDU	D L KRISHNA/PVD Ramesh	Tarakesh Kanakala		25.01.2025	4–21–992–U0089			00				



05-290

SUMMARY LIST OF SITE ELECTRODES

From

Sr.Manager
Engineering
DT: 08-02-2025

To

The Construction Manager
Project: NTPC – TALCHER
Auxiliary Boiler

Project: NTPC-TALCHER AUXILIARY BOILER

Customer No: 7936

P.G. No: 24

P.G. Name: BOILER TRIM PIPING AND SUPPORTS,
SAMPLE COOLER ARRANGEMENT &
SV ORIENTATION AND EXHAUST PIPE ARRANGEMENT

SL.NO.	TYPE OF ELECTRODE/WIRE	SIZE & QTY IN NOS.					TIG WIRE WT IN KG.	REMARKS.
		D 1.6	D 3.15	D 3.20	D 4.00	D 5.00		
01	ER 70S-A1	✓					7.60	
02	E 7018		1759		273			
03	E 309LMO			7				
04	E 308L			1				
05	E 316L			1				
06	E 347			30				

NOTES

1. RESERVE 25% ADDED.
 2. QUANTITY GIVEN IS PER BOILER.
 3. THIS ERECTION WELDING SCHEDULE IS FOR REFERENCE PURPOSE ONLY.
- ENCL: ERECTION WELDING SCHEDULE SHEET : 4-24-992-U0493 To 4-24-992-U0499

C.C 1. PROJECT COORDINATOR : Shri. P. GOPI KISHORE, Commercial-Project Management group
2. W.T.CENTRE. Shri. PVD Ramesh , Welding Technology

DRG NO.

4-24-600-U0483

REV
00

Revision	Prepared	Checked	Checked/WTC	Approved/WTC	Date	SHEET No.
00	MUNAYYA K	ANVK KISHORE	D L KRISHNA/ PVD RAMESH	Tarakesh Kanakala	08-02-2025	01 / 01



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS
01	1-24-600-U0082	PIPE + ELBOW/REDUCER	SA106GR.B+ SA234WPB	D168.3	10.97	10.97 ∇	ER 70S-A1 + E7018	TIG + ARC	∅1.6 + ∅3.15 ∅4.0	12 Nos	1.8 kg + 145 Nos 96 Nos	↑ AS PER WPS ↓	-	10% RT MIN. 1WELD/WELDER
02	1-24-600-U0082	PIPE+VALVE	SA106GR.B+ SA 216 WCB	D168.3	10.97	10.97 ∇	ER 70S-A1 + E7018	TIG + ARC	∅1.6 + ∅3.15 ∅4.0	4 Nos	600 grms + 50 Nos 32 Nos		-	10% RT MIN. 1WELD/WELDER
03	1-24-600-U0082	PIPE+PIPE	SA106 Gr.B+ SA106 Gr.B	D114.3	6.02	6.02-1/2∇ 6Δ	ER 70S-A1 + E7018	TIG + ARC	∅1.6 + ∅3.15	0.35m	50 grms + 10 Nos		-	10% RT MIN. 1WELD/WELDER
04	1-24-600-U0082	PIPE+PLATE	SA106 Gr.B + SA 515 GR.70	D114.3	6.02	6Δ	E 7018	ARC	∅3.15	2.05m	14 Nos		-	10% MPI OR LPI
05	1-24-600-U0082	PIPE+PLATE	SA106 Gr.B + SA 515 GR.70	D168.3	10.97	4⋈	E7018	ARC	∅3.15	1.5 m	15 Nos		-	10% MPI OR LPI
06	1-24-600-U0082	STRUCTURAL WELD	IS 2062 E250 + SA 515 Gr. 70	-	-	5Δ	E 7018	ARC	∅3.15	3 m	30 Nos		-	-
07	1-24-600-U0083	STRUCTURAL WELD	IS 2062 E250 + IS 2062 E250	-	-	5∩	E 7018	ARC	∅3.15	2.5 m	25 Nos		-	-
08	1-24-600-U0082	PIPE+ELBOW/TEE/ VALVE/FLG.	SA106GR.B+ SA 105	D48.3	5.08	6Δ	E 7018	ARC	∅3.15	60 Nos	60 Nos		-	10% MPI OR LPI
09	1-24-600-U0083	PIPE+ELBOW/TEE/ HC/VALVE	SA106 Gr.B+ SA105	D33.4	4.55	5Δ	E 7018	ARC	∅3.15	22 Nos	12 Nos		-	10% MPI OR LPI
10	1-24-600-U0083	STRUCTURAL WELD	IS 2062 E250 + IS 2062 E250	-	-	5Δ	E 7018	ARC	∅3.15	11 m	110 Nos		-	-
REV. 00	PREPARED G.V.USHARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh	APPROVED Tarakesh Kanakala		DATE 07.02.2025	DRG NO. 4-24-992-U0493			REV 00				



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS
11	1-24-600-U0084	PIPE + VALVE	SA106GR.B+ SA105	D48.3	5.08	6D	E 7018	ARC	ø3.15	20 Nos	20 Nos	↑ AS PER WPS ↓	-	10% MPI OR LPI M.1.1.01 R01
12	1-24-600-U0084	PIPE+REDUCER/ DRUM STUB	SA 106 GR.B + SA 234 WPB/ SA 106 GR.B	D48.3	5.08	5.08 V	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15	12 Nos.	200 grms + 30 Nos		-	10% RT MIN. 1WELD/WELDER T.M.1.1.50 R02
13	1-24-600-U0084	PIPE + REDUCER	SA106GR.B+ SA 234 WPB	D33.4	4.55	4.55 V	ER 70S-A1	TIG	ø1.6	6 Nos	100 grms		-	10% RT MIN. 1WELD/WELDER T.M.1.1.29 R01
14	1-24-600-U0084	PIPE+VALVE	SA106GR.B+ SA 105	D33.4	4.55	5D	E 7018	ARC	ø3.15	4 Nos	2 Nos		-	10% MPI OR LPI M.1.1.01 R01
15	1-24-600-U0084	PIPE+REDUCER	SA106GR.B+ SA234WPB	D21.3	3.73	3.73 V	ER 70S-A1	TIG	ø1.6	2 Nos	40 grms		-	10% RT MIN. 1WELD/WELDER T.M.1.1.29 R01
16	1-24-600-U0084	STRUCTURAL WELD	IS 2062 E250 + IS 2062 E250	-	-	5D	E 7018	ARC	ø3.15	10 m	100 Nos		-	- M.1.1.01 R01
17	1-24-600-U0085	PIPE+ELBOW/ H.COUPLING	SA106GR.B+ SA105	D33.4	4.55	5D	E 7018	ARC	ø3.15	3 Nos	2 Nos		-	10% MPI OR LPI M.1.1.01 R01
18	1-24-600-U0085	PIPE+ COUPLING	SA106GR.B+ SA 182 F316	D33.4	4.55	5D	E 309LMO	ARC	ø3.2	3 Nos	2 Nos		-	10% LPI M.1.8.52 R01
19	1-24-600-U0085	PIPE+ COUPLING	SA106GR.B+ SA 182 F316	D26.7	2.87	4D	E 309LMO	ARC	ø3.2	1 No	1 No		-	10% LPI M.1.8.52 R01
20	1-24-600-U0085	PIPE+F. COUPLING	SA 312 TP347H + SA 182 F347H	D26.7	2.87	4D	E 347	ARC	ø3.2	1 No	1 No		-	10% LPI M.8.8.50 R00
REV. 00	PREPARED G.V.USHARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh			APPROVED Tarakesh Kanakala			DATE 07.02.2025	DRG NO. 4-24-992-U0494			REV 00	



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE		
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS		
21	1-24-600-U0085	PIPE+VALVE	SA 312 TP347H + SA 182 F316	D26.7	2.87	4D	E 347	ARC	ø3.2	2 Nos	1 No	↑ AS PER WPS ↓	-	10% LPI		
															M.8.8.50 R00	
22	1-24-600-U0085	STRUCTURAL WELD	IS2062 E250 + IS2062 E250	-	-	5D	E 7018	ARC	ø3.15	2.6 m	25 Nos			-	-	
															M.1.1.01 R01	
23	1-24-600-U0086	PIPE+F.COUPLING	SA 312 TP347H + SA 182 F347H	D26.7	2.87	4D	E 347	ARC	ø3.2	41 Nos	14 Nos			-	10% LPI	
															M.8.8.50 R00	
24	1-24-600-U0086	PIPE+VALVE	SA 312 TP347H + SA 182 F316	D26.7	2.87	4D	E 347	ARC	ø3.2	4 Nos	2 Nos			-	10% LPI	
															M.8.8.50 R00	
25	1-24-600-U0086	PIPE + STUB	SA 312 TP347H + SA 182 F12 Cl2	D26.7	2.87	4D	E 309LMO	ARC	ø3.2	1 No	1 No			-	10% LPI	
															M.4.8.15 R00	
26	1-24-600-U0086	STUCTURAL WELD	IS2062 E250 + IS2062 E250	-	-	5D	E 7018	ARC	ø3.15	5 m	50 Nos		-	-		
														M.1.1.01 R01		
27	2-24-600-U0069	PIPE+ELBOW/ H.COUPLING+VALVE	SA106GR.B + SA105	D33.4	4.55	5D	E 7018	ARC	ø3.15	6 Nos	4 Nos		-	10% MPI OR LPI		
														M.1.1.01 R01		
28	2-24-600-U0069	PIPE + DRUM STUB	SA106GR.B + SA106GR.B	D33.4	4.55	4.55 √	ER 70S-A1	TIG	ø1.6	1 No	20 grams		-	10% RT MIN. 1WELD/WELDER T.M.1.1.29 R01		
29	2-24-600-U0069	STUCTURAL WELD	IS2062 E250 + IS2062 E250	-	-	5D	E 7018	ARC	ø3.15	7 m	70 Nos		-	-		
														M.1.1.01 R01		
30	2-24-600-U0070	PIPE + VALVE/ H.COUPLING	SA106GR.B + SA105	D33.4	4.55	5D	E 7018	ARC	ø3.15	3 Nos	2 Nos		-	10% MPI OR LPI		
														M.1.1.01 R01		
REV. 00	PREPARED G.V.USHARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh			APPROVED Tarakesh Kanakala			DATE 07.02.2025	DRG NO. 4-24-992-U0495			REV 00			



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE	
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS	
31	2-24-600-U0071	PIPE + VALVE /STUB	SA 106 Gr. B + SA 105	D33.4	4.55	5D	E 7018	ARC	ø3.15	4 Nos	3 Nos	↑ AS PER WPS ↓	-	10% MPI OR LPI M.1.1.01 R01	
32	2-24-600-U0071	STRUCTURAL WELD	IS2062 E250 + IS2062 E250	-	-	5D	E 7018	ARC	ø3.15	1 m	10 Nos		-	- M.1.1.01 R01	
33	2-24-600-U0072	PIPE+ELBOW	SA106GR.B + SA105	D33.4	4.55	5D	E 7018	ARC	ø3.15	10 Nos	8 Nos		-	10% MPI OR LPI M.1.1.01 R01	
34	2-24-600-U0072	PIPE + DRUM STUB	SA 106 Gr. B + SA 106 Gr. B	D33.4	4.55	4.55 V	ER 70S-A1	TIG	ø1.6	1 No	40 grams		-	10% RT MIN. 1WELD/WELDER T.1.1.29 R01	
35	2-24-600-U0072	PIPE + VALVE	SA 106 Gr. B + SA 182 F316	D33.4	4.55	5D	E 309L	ARC	ø3.2	1 No	1 No		-	10% LPI M.1.8.52 R01	
36	2-24-600-U0073	PIPE+FW STUB	SA 312 TP347H + SA 182 F12 CL2	D26.7	2.87	4D	E 309L	ARC	ø3.2	1 No	1 No		-	10% LPI M.4.8.15 R00	
37	2-24-600-U0073	PIPE + F.COUPLING/ H.COUPLING	SA 312 TP347H + SA 182 F347H	D26.7	2.87	4D	E 347	ARC	ø3.2	17 Nos	8 Nos		-	10% LPI M.8.8.50 R00	
38	2-24-600-U0073	PIPE+VALVE	SA 312 TP347H + SA 182 F316	D26.7	2.87	4D	E 347	ARC	ø3.2	2 Nos	1 No		-	10% LPI M.8.8.50 R00	
39	2-24-600-U0073	STRUCTURAL WELD	IS 2062 E250 + IS 2062 E250	-	-	5D	E 7018	ARC	ø3.15	1 m	10 Nos		-	- M.1.1.01 R01	
40	1-00-047-U0069	PR. REDUCER ASSY. + PIPE	SA182F316H + SA312TP347H	D26.7	2.87	4D	E 347	ARC	ø3.2	6 Nos	3 Nos		-	10% LPI M.8.8.50 R00	
REV. 00	PREPARED G.V.USHARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh			APPROVED Tarakesh Kanakala			DATE 07.02.2025	DRG NO. 4-24-992-U0496			REV 00		



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE WPS
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					
41	1-00-047-U0069	PIPE + PIPE/CONN. PIECE/ REDUCER	IS1239 + IS 1239/ SA 234WPB	D34.2	4.00	4 ∇	ER 70S-A1	TIG	Ø1.6	14 Nos	500 grms	↑ AS PER WPS ↓	-	10% RT MIN. 1WELD/WELDER T.1.1.29 R01
42	1-00-047-U0069	PIPE + PIPE/CONN. PIECE/ REDUCER	IS1239 + IS 1239/ SA 234WPB	D60.8	4.50	4.5 ∇	ER 70S-A1	TIG	Ø1.6	6 Nos	600 grms		-	10% RT MIN. 1WELD/WELDER T.1.1.29 R01
43	1-00-047-U0069	PIPE+COOLER STUB	IS1239 + SA182F12CL2	D34.2	4.00	4 ∇	E 7018	ARC	Ø3.15	6 Nos	4 Nos		-	10% MPI OR LPI M.1.1.01 R01
44	1-00-047-U0069	PIPE + ELBOW	SA 106 Gr. B + SA 234WPB	D114.3	6.02	6.02 ∇	ER 70S-A1 + E 7018	TIG + ARC	Ø1.6 + Ø3.15 Ø4.0	20 Nos.	900 grms + 70 Nos 50 Nos		-	10% RT MIN. 1WELD/WELDER T.M.1.1.50 R02
45	1-00-047-U0069	STRUCTURAL WELD	IS2062Fe410A + IS2062Fe410A	-	-	6 ∇	E 7018	ARC	Ø3.15	3 m	35 Nos.		-	- M.1.1.01 R01
46	1-00-047-U0069	STRUCTURAL WELD	IS2062Fe410A + IS2062Fe410A	-	-	5 ∇	E 7018	ARC	Ø3.15	1.0 m	12 Nos.		-	- M.1.1.01 R01
47	1-00-047-U0069	STRUCTURAL WELD	IS2062Fe410A + IS2062Fe410A	-	-	3.15 ∇	E 7018	ARC	Ø3.15	4 m	30 Nos.		-	- M.1.1.01 R01
48	1-00-047-U0070	PIPE + HALF COUPLING	SA312TP304H + SA182F304	D60.3	3.91	5 ∇	E 308L	ARC	Ø3.2	1 No.	1 No.		-	10% LPI M.8.8.23 R01
49	1-00-047-U0070	PIPE + VALVE	SA312TP304H + SA182F316	D60.3	3.91	5 ∇	E 316L	ARC	Ø3.2	1 No.	1 No.		-	10% LPI M.8.8.67 R00
50	1-00-047-U0070	PIPE + VALVE	SA106GRB + SA182F316	D60.3	5.54	6 ∇	E 309L	ARC	Ø3.2	1 No.	1 No.		-	10% LPI M.1.8.52 R01
REV. 00	PREPARED G.V.USARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh		APPROVED Tarakesh Kanakala		DATE 07.02.2025	DRG NO. 4-24-992-U0497				REV 00		



ERECTION WELDING SCHEDULE.

Boiler Mountings – Boiler Trim Piping & Supports

PROJECT	NTPC – TALCHER Auxiliary Boiler
Sale Order No.	7936
PRODUCT GROUP	24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE	
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS	
51	1-00-047-U0070	PIPE + REDUCER	SA106GRB + SA234WPB	D60.3	5.54	5.54 √	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15	1 No.	20 grms + 40 Nos	↑ AS PER WPS ↓	-	10% RT MIN. 1WELD/WELDER	
															T.M.1.1.50 R02
52	1-00-047-U0070	PIPE + REDUCER	SA106GRB + SA234WPB	D48.3	5.08	5.08 √	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15	1 No.	20 grms + 3 Nos		-	10% RT MIN. 1WELD/WELDER	
															T.M.1.1.50 R02
53	1-00-047-U0070	PIPE + ELBOW/TEE	SA106GRB + SA105	D48.3	5.08	6Δ	E 7018	ARC	ø3.15	19 Nos.	20 Nos.		-	10% MPI OR LPI	
															M.1.1.01 R01
54	1-00-047-U0070	STRUCTURAL WELD	IS2062Fe410A + IS2062Fe410A	-	-	5Δ	E 7018	ARC	ø3.15	0.4 m	5 Nos.		-	-	
															M.1.1.01 R01
55	1-00-047-U0071	ELBOW STRAIGHT PIPE + SLIPON FLANGE	SA106Gr.B + SA105	D114.3	6.02	7Δ	E 7018	ARC	ø3.15	6 Nos.	25 Nos.		-	10% MPI OR LPI	
															M.1.1.01 R01
56	1-00-047-U0071	ELBOW STRAIGHT PIPE + SLIPON FLANGE	SA106Gr.B + SA105	D168.3	7.11	8Δ	E 7018	ARC	ø3.15	2 Nos.	15 Nos.	-	10% MPI OR LPI		
														M.1.1.01 R01	
57	1-00-047-U0071	ELBOW STRAIGHT PIPE + ELBOW	SA106Gr.B + SA234WPB	D114.3	6.02	6.02 √	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15 + ø4.0	6 Nos.	270 grams + 24 Nos + 18 Nos	-	10% RT MIN. 1WELD/WELDER		
														T.M.1.1.50 R02	
58	1-00-047-U0071	ELBOW STRAIGHT PIPE + ELBOW	SA106Gr.B + SA234WPB	D168.3	7.11	7.11 √	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15 + ø4.0	2 Nos.	150 grams + 30 Nos + 8 Nos	-	10% RT MIN. 1WELD/WELDER		
														T.M.1.1.50 R02	
59	1-00-047-U0071	PIPE + DRAIN SOCKET	SA106Gr.B + SA105	D26.7	3.91	4Δ	E 7018	ARC	ø3.15	3 Nos.	2 Nos.	-	10% MPI OR LPI		
														M.1.1.01 R01	
60	1-00-047-U0071	PIPE + DRAIN SOCKET	SA106Gr.B + SA105	D33.4	4.55	5Δ	E 7018	ARC	ø3.15	1 No.	1No.	-	10% MPI OR LPI		
														M.1.1.01 R01	
REV. 00	PREPARED G.V.USHARANI	CHECKED DESIGN SMG NAIDU	CHECKED WTC D L KRISHNA/PVD Ramesh			APPROVED Tarakesh Kanakala			DATE 07.02.2025	DRG NO. 4-24-992-U0498				REV 00	

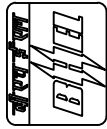


NTPC – TALCHER Auxiliary Boiler

7936

24

SL NO	DRAWING No.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN.	RECOMMENDED ELECTRODE / WIRE			TOTAL LENGTH/ NO OF WELD	ACTUAL QTY. (Kgs./Nos.)	PREHEAT °C	PWHT °C	MIN. RECOMMENDED NDE
							SPECN.	PROCESS ARC/TIG	SIZE (mm)					WPS
61	1-00-047-U0071	PIPE + PIPE	SA106GRB + SA106GRB	D33.4	4.55	4.55 √	ER 70S-A1	TIG	ø1.6	12 Nos.	480 grms	AS PER WPS	-	10% RT MIN. 1WELD/WELDER
62	1-00-047-U0071	PIPE + PIPE	SA106GRB + SA106GRB	D323.9	6.35	6.35 √	ER 70S-A1 + E 7018	TIG + ARC	ø1.6 + ø3.15 ø4.0	2 Nos.	250 grms + 25 Nos 14 Nos		-	10% RT MIN. 1WELD/WELDER
63	1-00-047-U0071	PIPE + PLATE	SA106GRB + IS2062Fe410A	-	-	4⌘	E 7018	ARC	ø3.15	4.2 m	65 Nos.		-	10% MPI OR LPI
64	1-00-047-U0071	STRUCTURAL WELD	IS2062Fe410A + IS2062Fe410A	-	-	5Δ	E 7018	ARC	ø3.15	25 m	250 Nos.		-	M.1.1.01 R01



PRESSURE PARTS / NON PRESSURE PARTS
HEAT TRANSFER ENGINEERING/HPVP
ERECTION WELDING SCHEDULE(WITH WPS No.)

PRESSURE PARTS / NON-PRESSURE PARTS HEAT TRANSFER ENGINEERING/HPVP ERECTION WELDING SCHEDULE(WITH WPS No.)															PROJECT		NTPC-TALCHER 90 TPH AUXILIARY BOILER	
															CUSTOMER No(s).		7936	
															PRODUCT GROUP		07	
SL. NO.	DRG NO.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN	RECOMMENDED ELECTRODE / WIRE		TOTAL LENGTH/ NO OF WELD	ACTUAL QTY gms/(NOS)	AS PER WPS	MIN RECOMMENDED NDE	WPS NO.					
01	0-00-027-U0116	TUBE + TUBE	SA192 + SA192	D76.1	4.5	4.85 ∇	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	22NO.S	650 GM'S + 210 NO'S	AS PER WPS	10% RT 100% MPE	T.M.1.1.50 R01				
02	0-00-027-U0116	TUBE + TUBE	SA192 + SA192	D76.1	4.5	4.85 ∇	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	18NO.S	500 GM'S + 170 NO'S	AS PER WPS	10% RT 100% MPE	T.M.1.1.50 R01				
03	0-00-027-U0113	FURNACE FRONT PANEL + FRONT BOTTOM HDR'S	SA192 + SA192	D76.1	4.5	4.85 ∇	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	46NO.S	1.3 KG'S + 430 NO'S	AS PER WPS	10% RT 100% MPE	T.M.1.1.50 R01				
04	0-00-027-U0113	FURNACE FRONT PANEL + FRONT TOP HDR'S	SA192 + SA192	D76.1	4.5	4.85 ∇	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	46NO.S	1.3 KG'S + 430 NO'S	AS PER WPS	10% RT 100% MPE	T.M.1.1.50 R01				
05	0-00-027-U0114	REAR PANEL + REAR BOTTOM HDR'S	SA192 + SA192	D76.1	4.5	4.85 ∇	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	18NO.S	500 GM'S + 170 NO'S	AS PER WPS	10% RT 100% MPE	T.M.1.1.50 R01				
PREPARED		NAME	SIGNATURE		REV. 00		REV. 01		REV. 02									
			DATE	SIGN.	DATE	SIGN.	DATE	SIGN.	DATE									
CHECKED(DSIGN)		S.M.G.NAIDU					11.07.24						SHEET NO 1 OF 2					
CHECKED(W.T.C.)		K.K					11.07.24						DRAWING NO.	REV.No.				
APPROVED		K.K/P.V.D.R					11.07.24						4-07-992-U8441	00				



**PRESSURE PARTS / NON PRESSURE PARTS
HEAT TRANSFER ENGINEERING/HPVP
ERECTION WELDING SCHEDULE(WITH WPS No.)**

PRESSURE PARTS / NON PRESSURE PARTS HEAT TRANSFER ENGINEERING/HPVP ERECTION WELDING SCHEDULE(WITH WPS No.)															PROJECT		NTPC-TALCHER 90 TPH AUXILIARY BOILER	
															CUSTOMER No(s).		7936	
															PRODUCT GROUP		07	
SL. NO.	DRG NO.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN	RECOMMENDED ELECTRODE / WIRE		TOTAL LENGTH/ NO OF WELD	ACTUAL QTY gms/ (NOS)	AS PER WPS	DEFECTS	MIN RECOMMENDED NDE	WPS NO.				
06	0-00-027-U0114	REAR PANEL + REAR TOP HDR'S	SA192 + SA192	D76.1	4.5	4.85 √	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	500 GM'S + 170 NO'S	AS PER WPS	—	10% RT 100% MPE	T.M.1.1.50 R01				
07	0-00-027-U0113	FURNACE SIDE WALL TUBES TOP + BOTTOM	SA192 + SA192	D76.1	4.5	4.85 √	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	2.4 KG'S + 800 NO'S	AS PER WPS	—	10% RT 100% MPE	T.M.1.1.50 R01				
08	0-00-027-U0114	CORNER TUBES TOP + BOTTOM	SA192 + SA192	D76.1	4.5	4.85 √	ER70SA1 + E7018	GTAW + SMAW	∅1.6 ∅2.5	1 KG'S + 320 NO'S	AS PER WPS	—	10% RT 100% MPE	T.M.1.1.50 R01				
				REV. 00		REV. 01		REV. 02										
		NAME	SIGNATURE	DATE	SIGN.	DATE	SIGN.	DATE										
PREPARED		S.M.G.NAIDU			11.07.24													
CHECKED(DSIGN)		K.K			11.07.24				SHEET NO 2 OF 2									
CHECKED(W.T.C.)		D.L.K			11.07.24				DRAWING NO.		REV.No.							
APPROVED		K.K/P.V.D.R			11.07.24				4-07-992-U8442		00							



HT ENGINEERING (CS)

SUMMARY LIST OF SITE ELECTRODES

FROM
SR.MANAGER(ENGG)
BHEL-HPVP
VISAKHAPATNAM-530012

TO
CONSTRUCTION MANAGER,
NTPC-TALCHER AUXILIARY SITE

REF: HTE/CS/S.O 7936/Dt.19-07-2024:

~~PSNR/PSWR/PSER/PSSR~~ ✓

PROJECT: NTPC-TALCHER AUXILIARY

CUSTOMER No(s): 7936

P.G.No(s): 07-992

P.G. NAME(s): WELDING CONSUMABLES.

SL.NO.	TYPE OF ELECTRODE/WIRE	SIZE & QUANTITY – NOs.				TIG WIRE	REMARKS
		D2.5	D3.15	D4.0	D5.0	WT-Kg	
01	ER70SA1	--	--	--	--	10.187	
02	E7018	3375	--	--	--	--	

NOTES:-

1. RESERVE 10% ADDED
2. QUANTITY GIVEN IS PER BOILER
3. THIS WELDING SCHEDULE IS FOR REFERENCE PURPOSES ONLY.

ENCL : ERECTION WELDING SCHEDULE SHEET DRG.NO. 4-07-992-U8441 & U8442

- C.C 1. DGM PLANNING
2. Sr.Manager WELDING TECHNOLOGY

DRAWING No.	4-07-992-U9001						
		REV. 00		REV. 01		REV. 02	
	NAME	SIGNATURE	DATE	SIGN.	DATE	SIGN.	DATE
PREPARED	GOWTHAM B		19-07-24				
CHECKED	K.KISHORE		19-07-24				
APPROVED	K.KISHORE		19-07-24				



**PRESSURE PARTS / NON PRESSURE PARTS
HEAT TRANSFER ENGINEERING/HPVP
ERECTION WELDING SCHEDULE(WITH WPS No.)**

PRESSURE PARTS / NON-PRESSURE PARTS HEAT TRANSFER ENGINEERING/HPVP ERECTION WELDING SCHEDULE(WITH WPS No.)															PROJECT NTPC-TALCHER 90 TPH AUXILIARY BOILER		
															CUSTOMER No(s).		7936
															PRODUCT GROUP		
SL. NO.	DRG NO.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN	RECOMMENDED ELECTRODE / WIRE		TOTAL LENGTH/ NO OF WELD	ACTUAL QTY gms/(NOS)	AS PER WPS	MIN RECOMMENDED NDE	WPS NO.				
06	0-00-027-U0115	HEADER STUB + COIL	SA106GRB + SA213T11	D50.8	4	4.15 √	ER80SB2 + E8018B2	GTAW	+	∅1.6	700 GM'S + 230 NO'S	AS PER WPS	100% RT 100% MPE	T.M.1.4.40 R00			
								SMAW		∅2.5							
07	0-00-027-U0115	HEADER STUB + COIL	SA106GRB + SA213T11	D50.8	4	4.15 √	ER80SB2 + E8018B2	GTAW	+	∅1.6	700 GM'S + 230 NO'S	AS PER WPS	100% RT 100% MPE	T.M.1.4.40 R00			
								SMAW		∅2.5							
08	1-80-300-U9453	PIPE + PIPE	SA106GRB + SA106GRB	D406.4	26.19	22.7 √	ER70SA1 + E7018	GTAW	+	∅1.6	1.7 KG'S + 280 NO'S 140 NO'S	AS PER WPS	100% RT 100% MPE	T.M.1.1.02 R02			
								SMAW		∅2.5 ∅3.2							
09	1-80-300-U9453	PIPE + PIPE	SA106GRB + SA234WPB /SA105	D355.6	15.09	13.3 √	ER70SA1 + E7018	GTAW	+	∅1.6	2.3 KG'S + 385 NO'S 200 NO'S	AS PER WPS	100% RT 100% MPE	T.M.1.1.50 R01			
								SMAW		∅2.5 ∅3.2							
10	1-80-300-U9453	PIPE + PIPE	SA106GRB + SA106GRB	D355.6	15.09	13.3 √	ER70SA1 + E7018	GTAW	+	∅1.6	2.3 KG'S + 385 NO'S 200 NO'S	AS PER WPS	100% RT 100% MPE	T.M.1.1.50 R01			
								SMAW		∅2.5 ∅3.2							
PREPARED		NAME		SIGNATURE		REV. 00		REV. 01		REV. 02							
CHECKED(DSIGN)		S.M.G.NAIDU						11.07.24									
CHECKED(W.T.C.)		K.K						11.07.24				SHEET NO 2 OF 3					
APPROVED		D.L.K						11.07.24				DRAWING NO.					
		K.K/P.V.D.R						11.07.24				4-12-992-U8309					
												REV.No. 00					



HT ENGINEERING (CS)

SUMMARY LIST OF SITE ELECTRODES

FROM
SR.MANAGER(ENGG)
BHEL-HPVP
VISAKHAPATNAM-530012

TO
CONSTRUCTION MANAGER,
NTPC-TALCHER AUXILIARY SITE

REF: HTE/CS/S.O 7936/Dt.19-07-2024:

~~PSNR/PSWR/PSER/PSSR~~ ✓

PROJECT: NTPC-TALCHER AUXILIARY

CUSTOMER No(s): 7936

P.G.No(s): 12-992

P.G. NAME(s): WELDING CONSUMABLES.

SL.NO.	TYPE OF ELECTRODE/WIRE	SIZE & QUANTITY - NOs.				TIG WIRE	REMARKS
		D2.5	D3.15	D4.0	D5.0	WT-Kg	
01	ER70SA1	--	--	--	--	17.425	
02	ER80SB2	--	--	--	--	1.750	
02	E8018B2	575	--	--	--		
02	E7018	2918.7	1362.5		--	--	

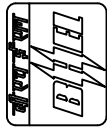
NOTES:-

1. RESERVE 10% ADDED
2. QUANTITY GIVEN IS PER BOILER
3. THIS WELDING SCHEDULE IS FOR REFERENCE PURPOSES ONLY.

ENCL : ERECTION WELDING SCHEDULE SHEET DRG.NO. 4-12-992-U8308,U8309 & U8310

- C.C 1. DGM PLANNING
2. Sr.Manager WELDING TECHNOLOGY

DRAWING No.	4-12-992-U9003						
		REV. 00		REV. 01		REV. 02	
	NAME	SIGNATURE	DATE	SIGN.	DATE	SIGN.	DATE
PREPARED	GOWTHAM B		19-07-24				
CHECKED	K.KISHORE		19-07-24				
APPROVED	K.KISHORE		19-07-24				



**PRESSURE PARTS / NON PRESSURE PARTS
HEAT TRANSFER ENGINEERING/HPVP
ERECTION WELDING SCHEDULE(WITH WPS No.)**

PRESSURE PARTS / NON PRESSURE PARTS HEAT TRANSFER ENGINEERING/HPVP ERECTION WELDING SCHEDULE(WITH WPS No.)																PROJECT		NTPC-TALCHER 90 TPH AUXILIARY BOILER	
																CUSTOMER No(s).		7936	
																PRODUCT GROUP		19	
SL. NO.	DRG NO.	DESCRIPTION OF PARTS	MATERIAL	SIZE OF THE ITEM	THICKNESS	WELD SPECN	RECOMMENDED ELECTRODE / WIRE		TOTAL LENGTH/ NO OF WELD	ACTUAL QTY gms/ (NOS)	PREPARED AS PER WPS	DWG NO.	MIN RECOMMENDED NDE	WPS NO.					
01	1-19-850-U8108	DRUM STUB + PIPE	SA106RB + SA106GRB	D141.3 9.53	8.6	8.6	ER70SA1 + E7018	GTAW + SMAW	1 NO.	120 GM'S + 20 NO'S 10 NO'S	AS PER WPS	—	100% RT 100% MPE	T.M.1.1.50 R01					
02	1-19-850-U8108	PIPE + PIPE	SA106GRB + SA106GRB	D141.3 9.53	8.6	8.6	ER70SA1 + E7018	GTAW + SMAW	7 NO.S	800 GM'S + 140 NO'S 70 NO'S	AS PER WPS	—	100% RT 100% MPE	T.M.1.1.50 R01					
03	1-19-850-U8108	VALVE + VALVE	SA216WCB + SA216WCB	D141.3 9.53	8.6	8.6	ER70SA1 + E7018	GTAW + SMAW	2 NO'S	240 GM'S + 40 NO'S 20 NO'S	AS PER WPS	—	100% RT 100% MPE	T.M.1.1.50 R01					
				REV. 00		REV. 01		REV. 02											
		NAME		SIGNATURE		DATE		SIGN.		DATE		SIGN.		DATE					
PREPARED		S.M.G.NAIDU				10.07.24		10.07.24											
CHECKED(DSIGN)		K.K				10.07.24		10.07.24						SHEET NO 1 OF 1					
CHECKED(W.T.C.)		D.L.K				10.07.24		10.07.24						DRAWING NO.					
APPROVED		K.K/P.V.D.R				10.07.24		10.07.24						4-19-992-U8452					
														REV.No. 00					



HT ENGINEERING (CS)

SUMMARY LIST OF SITE ELECTRODES

FROM
SR.MANAGER(ENGG)
BHEL-HPVP
VISAKHAPATNAM-530012

TO
CONSTRUCTION MANAGER,
NTPC-TALCHER AUXILIARY SITE
.....

REF: HTE/CS/S.O 7936/Dt.19-07-2024:

~~PSNR/PSWR/PSER/PSSR~~ ✓

PROJECT: NTPC-TALCHER AUXILIARY

CUSTOMER No(s): 7936

P.G.No(s): 19-992

P.G. NAME(s): WELDING CONSUMABLES.

SL.NO.	TYPE OF ELECTRODE/WIRE	SIZE & QUANTITY - NOs.				TIG WIRE	REMARKS
		D2.5	D3.15	D4.0	D5.0	WT-Kg	
01	ER70SA1	--	--	--	--	1.45	
02	E7018	250	125	--	--	--	

NOTES:-

1. RESERVE 10% ADDED
2. QUANTITY GIVEN IS PER BOILER
3. THIS WELDING SCHEDULE IS FOR REFERENCE PURPOSES ONLY.

ENCL : ERECTION WELDING SCHEDULE SHEET DRG.NO. 4-19-992-U8452

- C.C
1. DGM PLANNING
 2. Sr.Manager WELDING TECHNOLOGY

DRAWING No.	4-19-992-U9002						
		REV. 00		REV. 01		REV. 02	
	NAME	SIGNATURE	DATE	SIGN.	DATE	SIGN.	DATE
PREPARED	GOWTHAM B		19-07-24				
CHECKED	K.KISHORE		19-07-24				
APPROVED	K.KISHORE		19-07-24				