

BILL OF QUANTITIES AND % WEIGHTAGE OF INDIVIDUAL ITEMS						
Job	Balance work of Erection, Testing and assistance for commissioning & Trial Operation including handling of materials at BHEL / Client's Stores / Storage Yard and transportation to site of; Boiler & its Auxiliaries, ESP and its auxiliaries, Boiler integral piping, Critical Piping (P91, HP/LP piping), Structure for bunker (BHEL Mfg units Supplied items), Non Pressure Parts, Duct dampers and its support structure, Rotating Equipments, Air Pre Heaters, ID/FD/PA fans, SCR and its auxiliaries, FGD and its auxiliaries, Lining and Insulation, Supply and application of touchup painting, (As and wherever required) and balance erection work of Bunker and allied works in unit-3 at 3x800 MW PVUNL Patratu project, Jharkhand					
BALANCE WORK OF BOILER#3 VERTICAL PACKAGE-3x800 MW PVUNL Patratu project						
SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
SECTION 1- BOILER & AUXILIARIES						
1.1 Structure						
1.1.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	13,712	0.03928004	0.00	0.00
1.1.2	PLACEMENT IN POSITION	MT	13,769	0.02958339	0.00	0.00
1.1.3	ALIGNMENT	MT	13,833	0.03962683	0.00	0.00
1.1.4	WELDING / BOLTING / FIXING	MT	14,840	0.04251347	0.00	0.00
1.1.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	14,914	0.02136211	0.00	0.00
1.1.6	COMPLETION OF SHEET COVERING FOR BOILER ROOF, BURNER ROOF, LIFT SHAFT CLADDING, COMPLETION OF GUTTERS	MT	15,214	0.00653777	0.00	0.00
1.1.7	PAINTING	MT	33,406	0.00956981	0.00	0.00
1.1.8	AREA CLEANING, TEMPORARY STRUCTURE CUTTING/REMOVAL AND RETURN OF SCRAP	MT	33,406	0.00478491	0.00	0.00
1.1.9	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	33,406	0.01913962	0.00	0.00
1.1.10	MATERIAL RECONCILIATION	MT	13,769	0.00788891	0.00	0.00
1.1.11	COMPLETION OF CONTRACTUAL OBLIGATION	MT	33,406	0.00478491	0.00	0.00
Total Structure>>>				0.22507175	0	0
1.2 Pressure Parts						
1.2.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	3,006	0.01040855	0.00	0.00
1.2.2	PLACEMENT IN POSITION	MT	5,059	0.00875856	0.00	0.00
1.2.3	ALIGNMENT	MT	8,180	0.02124454	0.00	0.00
1.2.4	WELDING / BOLTING / FIXING	MT	6,796	0.02353394	0.00	0.00
1.2.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	7,471	0.01293459	0.00	0.00
1.2.6	COMPLETION OF ATTACHMENT WELDING,FIN WELDING,SUPPORTS	MT	7,184	0.00621956	0.00	0.00
1.2.7	COMPLETION OF ROOF SKIN CASING & ALL CLADDING WORKS	MT	12,002	0.00831195	0.00	0.00
1.2.8	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG.	MT	7,297	0.00126346	0.00	0.00
1.2.9	COMPLETION OF AIR & GAS TIGHTNESS TEST FOR FURNACE	MT	12,002	0.00415598	0.00	0.00
1.2.10	BOILER HYDRAULIC TEST(DRAINABLE)	MT	12,002	0.00415598	0.00	0.00
1.2.11	BOILER HYDRAULIC TEST(NON DRAINABLE)	MT	12,002	0.00207799	0.00	0.00
1.2.12	REHEATER COILS HYDRAULIC TEST	MT	12,002	0.00415598	0.00	0.00
1.2.13	BOILER LIGHT UP	MT	12,002	0.00207799	0.00	0.00
1.2.14	ABO/CHEMICAL CLEANING	MT	12,002	0.00207799	0.00	0.00
1.2.15	SAFETY VALVE FLOATING	MT	12,002	0.00415598	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
1.2.16	AREA CLEANING, TEMPORARY STRUCTURE CUTTING/REMOVAL AND RETURN OF SCRAP	MT	12,002	0.00207799	0.00	0.00
1.2.17	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	12,002	0.00207799	0.00	0.00
1.2.18	MATERIAL RECONCILIATION	MT	5,059	0.00087594	0.00	0.00
1.2.19	COMPLETION OF CONTRACTUAL OBLIGATION	MT	12,002	0.00207799	0.00	0.00
	<b>Total Pressure Part&gt;&gt;&gt;</b>			<b>0.12264292</b>	<b>0</b>	<b>0</b>
<b>1.3 Non Pressure Part</b>						
1.3.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	10,900	0.03953317	0.00	0.00
1.3.2	PLACEMENT IN POSITION	MT	11,100	0.01610261	0.00	0.00
1.3.3	ALIGNMENT <u>(As per Amendt.ref no-BHE/PW/PUR/NTPRT-BLR PCP ESP FDG - U3/2314/Corg-02, Dated-21.10.2020)</u>	MT	11,279	0.02454315	0.00	0.00
1.3.4	WELDING / BOLTING / FIXING	MT	11,351	0.03293304	0.00	0.00
1.3.5	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG.	MT	11,273	0.02453178	0.00	0.00
1.3.6	AIR & GAS TIGHTNESS TEST	MT	11,827	0.00857907	0.00	0.00
1.3.7	ABO/CHEMICAL CLEANING	MT	11,827	0.00171581	0.00	0.00
1.3.8	STEAM BLOWING	MT	11,827	0.00343163	0.00	0.00
1.3.9	COAL FIRING	MT	11,827	0.00343163	0.00	0.00
1.3.10	PAINTING	MT	11,827	0.00171581	0.00	0.00
1.3.11	AREA CLEANING, TEMPORARY STRUCTURE CUTTING/REMOVAL AND RETURN OF SCRAP	MT	11,827	0.00171581	0.00	0.00
1.3.12	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	11,827	0.00171581	0.00	0.00
1.3.13	MATERIAL RECONCILIATION	MT	11,089	0.00160874	0.00	0.00
1.3.14	COMPLETION OF CONTRACTUAL OBLIGATION	MT	11,827	0.00171581	0.00	0.00
	<b>Total Non Pressure Part &gt;&gt;&gt;</b>			<b>0.16327389</b>	<b>0</b>	<b>0</b>
<b>1.4 Rotating Machines</b>						
1.4.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	1,050	0.00157298	0.00	0.00
1.4.2	PLACEMENT IN POSITION	MT	1,050	0.00209731	0.00	0.00
1.4.3	ALIGNMENT	MT	1,454	0.00290454	0.00	0.00
1.4.4	WELDING / BOLTING / FIXING	MT	1,546	0.00308998	0.00	0.00
1.4.5	EQUIPMENT TRIAL OPERATION	MT	2,484	0.00248150	0.00	0.00
1.4.6	CLEAN AIR FLOW TEST	MT	2,484	0.00024815	0.00	0.00
1.4.7	BOILER LIGHT UP	MT	2,484	0.00024815	0.00	0.00
1.4.8	ABO/CHEMICAL CLEANING	MT	2,484	0.00024815	0.00	0.00
1.4.9	STEAM BLOWING	MT	2,484	0.00024815	0.00	0.00
1.4.10	COAL FIRING	MT	2,484	0.00049630	0.00	0.00
1.4.11	FULL LOAD	MT	2,484	0.00024815	0.00	0.00
1.4.12	TRIAL OPERATION OF UNIT	MT	2,484	0.00049630	0.00	0.00
1.4.13	PAINTING	MT	2,484	0.00049630	0.00	0.00
1.4.14	AREA CLEANING, TEMPORARY STRUCTURE CUTTING/REMOVAL AND RETURN OF SCRAP	MT	2,484	0.00024815	0.00	0.00
1.4.15	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	2,484	0.00024815	0.00	0.00
1.4.16	MATERIAL RECONCILIATION	MT	1,050	0.00010487	0.00	0.00
1.4.17	COMPLETION OF CONTRACTUAL OBLIGATION	MT	2,484	0.00024815	0.00	0.00
	<b>Total RM &amp; Handling Eqpts. Part &gt;&gt;&gt;</b>			<b>0.01572526</b>	<b>0</b>	<b>0</b>
<b>1.5 Air Preheater (APH)</b>						

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
1.5.1	Completion of Support steel squareness and levelling, Expansion arrangement, Housing panel erection and alignment, Erection, alignment and welding of pedestals	MT	1,376	0.00151199	0.00	0.00
1.5.2	Completion of Erection, alignment and welding of Support Bearing, Guide Bearing, Rotor post, Bottom and Top centre sections, Hot and cold end connecting plates	MT	1,376	0.00233671	0.00	0.00
1.5.3	Completion of erection and alignment of modules	MT	1,376	0.00206181	0.00	0.00
1.5.4	Completion of erection, alignment and welding of Pin Rack assembly and Drive assembly	MT	1,376	0.00164945	0.00	0.00
1.5.5	Completion of seals setting	MT	2,628	0.00446359	0.00	0.00
1.5.6	Erection, alignment and welding of Lube oil systems, Cleaning Device, Fire sensing device, Deluge and water wash lines, Observation port and lighting assemblies and other accessories	MT	2,628	0.00262564	0.00	0.00
1.5.7	Completion of PGMA	MT	2,628	0.00026256	0.00	0.00
1.5.8	Air preheater Trial Run	MT	2,628	0.00052513	0.00	0.00
1.5.9	BOILER LIGHT UP	MT	2,628	0.00052513	0.00	0.00
1.5.10	ABO/CHEMICAL CLEANING	MT	2,628	0.00052513	0.00	0.00
1.5.11	STEAM BLOWING	MT	2,628	0.00026256	0.00	0.00
1.5.12	SAFETY VALVE FLOATING	MT	2,628	0.00052513	0.00	0.00
1.5.13	COAL FIRING	MT	2,628	0.00052513	0.00	0.00
1.5.14	PAINTING	MT	2,628	0.00026256	0.00	0.00
1.5.15	AREA CLEANING, TEMPORARY STRUCTURE CUTTING/REMOVAL AND RETURN OF SCRAP	MT	2,628	0.00026256	0.00	0.00
1.5.16	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	2,628	0.00052513	0.00	0.00
1.5.17	MATERIAL RECONCILIATION	MT	1,418	0.00014164	0.00	0.00
1.5.18	COMPLETION OF CONTRACTUAL OBLIGATION	MT	2,628	0.00026256	0.00	0.00
	<b>Total Air Pre Heater Part &gt;&gt;&gt;</b>			<b>0.01925443</b>	<b>0</b>	<b>0</b>
<b>1.6 Insulation - Wool Matress</b>						
1.6.1	PLACEMENT IN POSITION	MT	3,056	0.02034841	0.00	0.00
1.6.2	ALIGNMENT	MT	3,056	0.00610452	0.00	0.00
1.6.3	WELDING / BOLTING / FIXING	MT	3,056	0.00610452	0.00	0.00
1.6.4	COMPLETION OF ROOF SKIN CASING & AI CLADDING WORKS	MT	3,056	0.00203484	0.00	0.00
1.6.5	BOILER LIGHT UP	MT	3,056	0.00040697	0.00	0.00
1.6.6	ABO/CHEMICAL CLAENING	MT	3,056	0.00040697	0.00	0.00
1.6.7	STEAM BLOWING	MT	3,056	0.00040697	0.00	0.00
1.6.8	SAFETY VALVE FLOATING	MT	3,056	0.00040697	0.00	0.00
1.6.9	COAL FIRING	MT	3,056	0.00040697	0.00	0.00
1.6.10	FULL LOAD	MT	3,056	0.00040697	0.00	0.00
1.6.11	TRIAL OPERATION OF UNIT	MT	3,056	0.00081394	0.00	0.00
1.6.12	Area cleaning, temporary structures cutting/removal and return of scrap	MT	3,056	0.00122090	0.00	0.00
1.6.13	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	3,056	0.00040697	0.00	0.00
1.6.14	MATERIAL RECONCILIATION	MT	3,056	0.00081394	0.00	0.00
1.6.15	COMPLETION OF CONTRACTUAL OBLIGATION	MT	3,056	0.00040697	0.00	0.00
	<b>Total WOOL MATRESS Part &gt;&gt;&gt;</b>			<b>0.04069682</b>	<b>0</b>	<b>0</b>
<b>1.7 Insulation - Pourable &amp; Castable</b>						
1.7.1	PLACEMENT IN POSITION	MT	270	0.00181880	0.00	0.00
1.7.2	ALIGNMENT	MT	270	0.00054564	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
1.7.3	WELDING / BOLTING / FIXING	MT	270	0.00054564	0.00	0.00
1.7.4	COMPLETION OF ROOF SKIN CASING & AI CLADDING WORKS	MT	270	0.00018188	0.00	0.00
1.7.5	BOILER LIGHT UP	MT	270	0.00003638	0.00	0.00
1.7.6	ABO/CHEMICAL CLAENING	MT	270	0.00003638	0.00	0.00
1.7.7	STEAM BLOWING	MT	270	0.00003638	0.00	0.00
1.7.8	SAFETY VALVE FLOATING	MT	270	0.00003638	0.00	0.00
1.7.9	COAL FIRING	MT	270	0.00003638	0.00	0.00
1.7.10	FULL LOAD	MT	270	0.00003638	0.00	0.00
1.7.11	TRIAL OPERATION OF UNIT	MT	270	0.00007275	0.00	0.00
1.7.12	Area cleaning, temporary structures cutting/removal and return of scrap	MT	270	0.00010913	0.00	0.00
1.7.13	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	270	0.00003638	0.00	0.00
1.7.14	MATERIAL RECONCILIATION	MT	270	0.00007275	0.00	0.00
1.7.15	COMPLETION OF CONTRACTUAL OBLIGATION	MT	270	0.00003638	0.00	0.00
<b>Total POURABLE &amp; CASTABLE INSULATION Part &gt;&gt;&gt;</b>				<b>0.00363760</b>	<b>0</b>	<b>0</b>
<b>1.8 Insulation - Iron Parts</b>						
1.8.1	PLACEMENT IN POSITION	MT	1,148	0.00799110	0.00	0.00
1.8.2	ALIGNMENT	MT	1,148	0.00239733	0.00	0.00
1.8.3	WELDING / BOLTING / FIXING	MT	1,148	0.00239733	0.00	0.00
1.8.4	COMPLETION OF ROOF SKIN CASING & AI CLADDING WORKS	MT	1,148	0.00079911	0.00	0.00
1.8.5	BOILER LIGHT UP	MT	1,148	0.00015982	0.00	0.00
1.8.6	ABO/CHEMICAL CLAENING	MT	1,148	0.00015982	0.00	0.00
1.8.7	STEAM BLOWING	MT	1,148	0.00015982	0.00	0.00
1.8.8	SAFETY VALVE FLOATING	MT	1,148	0.00015982	0.00	0.00
1.8.9	COAL FIRING	MT	1,148	0.00015982	0.00	0.00
1.8.10	FULL LOAD	MT	1,148	0.00015982	0.00	0.00
1.8.11	TRIAL OPERATION OF UNIT	MT	1,148	0.00031964	0.00	0.00
1.8.12	Area cleaning, temporary structures cutting/removal and return of scrap	MT	1,148	0.00047947	0.00	0.00
1.8.13	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	1,148	0.00015982	0.00	0.00
1.8.14	MATERIAL RECONCILIATION	MT	1,148	0.00031964	0.00	0.00
1.8.15	COMPLETION OF CONTRACTUAL OBLIGATION	MT	1,148	0.00015982	0.00	0.00
<b>Total IRON PARTS Part &gt;&gt;&gt;</b>				<b>0.01598219</b>	<b>0</b>	<b>0</b>
<b>1.9 Aluminium Cladding Sheet</b>						
1.9.1	PLACEMENT IN POSITION	MT	889	0.00645737	0.00	0.00
1.9.2	ALIGNMENT	MT	889	0.00193721	0.00	0.00
1.9.3	WELDING / BOLTING / FIXING	MT	889	0.00193721	0.00	0.00
1.9.4	COMPLETION OF ROOF SKIN CASING & AI CLADDING WORKS	MT	889	0.00064574	0.00	0.00
1.9.5	BOILER LIGHT UP	MT	889	0.00012915	0.00	0.00
1.9.6	ABO/CHEMICAL CLAENING	MT	889	0.00012915	0.00	0.00
1.9.7	STEAM BLOWING	MT	889	0.00012915	0.00	0.00
1.9.8	SAFETY VALVE FLOATING	MT	889	0.00012915	0.00	0.00
1.9.9	COAL FIRING	MT	889	0.00012915	0.00	0.00
1.9.10	FULL LOAD	MT	889	0.00012915	0.00	0.00
1.9.11	TRIAL OPERATION OF UNIT	MT	889	0.00025829	0.00	0.00
1.9.12	Area cleaning, temporary structures cutting/removal and return of scrap	MT	889	0.00038744	0.00	0.00
1.9.13	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	889	0.00012915	0.00	0.00
1.9.14	MATERIAL RECONCILIATION	MT	889	0.00025829	0.00	0.00
1.9.15	COMPLETION OF CONTRACTUAL OBLIGATION	MT	889	0.00012915	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
	<b>Total ALUMINIUM CLADDING SHEET Part &gt;&gt;&gt;</b>			<b>0.01291474</b>	<b>0</b>	<b>0</b>
	<b>TOTAL BOILER</b>			<b>0.61919960</b>	<b>0</b>	<b>0</b>
<b>2.1 ESP &amp; ITS AUXILIARIES</b>						
2.1.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	4,543	0.00658393	0.00	0.00
2.2.2	PLACEMENT IN POSITION	MT	4,543	0.00877857	0.00	0.00
2.1.2	ALIGNMENT	MT	5,465	0.00792022	0.00	0.00
2.2.3	WELDING / BOLTING / FIXING	MT	7,706	0.01489227	0.00	0.00
2.1.3	COMPLETION OF HOPPERS ALONG WITH ALL DOORS, HEATING ELEMENTS, POKING DOORS, ETC	MT	10,024	0.00484286	0.00	0.00
2.2.4	COMPLETION OF INNER, OUTER ROOF INSULATOR HOUSING, RECTIFIER TRANSFORMERS, PENT HOUSE MONO RAILS, HOISTS ETC	MT	10,538	0.00509111	0.00	0.00
2.1.4	ERECTION OF EMITTING AND COLLECTING RAPPING SYSTEM WITH ALL DRIVES	MT	14,346	0.00693083	0.00	0.00
2.2.5	AIR & GAS TIGHTNESS TEST	MT	14,346	0.00138617	0.00	0.00
2.1.5	GAS DISTRIBUTION TEST	MT	14,346	0.00138617	0.00	0.00
2.2.6	CHARGING OF ESP FIELDS	MT	14,346	0.00554466	0.00	0.00
2.1.6	FULL LOAD	MT	14,346	0.00277233	0.00	0.00
2.2.7	TRIAL OPERATION OF UNIT	MT	14,346	0.00138617	0.00	0.00
2.1.7	Painting	MT	14,346	0.00277233	0.00	0.00
2.2.8	Area cleaning, temporary structures cutting/removal and return of scrap	MT	14,346	0.00138617	0.00	0.00
2.1.8	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	14,346	0.00138617	0.00	0.00
2.2.9	MATERIAL RECONCILIATION	MT	4,565	0.00044110	0.00	0.00
2.1.9	COMPLETION OF CONTRACTUAL OBLIGATION	MT	14,346	0.00138617	0.00	0.00
	<b>Total ESP &amp; Its Auxiliaries</b>			<b>0.07488721</b>	<b>0</b>	<b>0</b>
<b>3.1 FGD &amp; Its Auxiliaries (Absorber/Structure/Duct Damper)</b>						
3.1.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	3,363	0.01131525	0.00	0.00
3.1.2	PLACEMENT IN POSITION	MT	3,363	0.00565762	0.00	0.00
3.1.3	ALIGNMENT	MT	3,363	0.00848644	0.00	0.00
3.1.4	WELDING / BOLTING / FIXING	MT	3,363	0.00848644	0.00	0.00
3.1.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING/ HEAT TREATMENT (if not applicable, then this portion to be paid along with WELDING/BOLTING/FIXING)	MT	3,363	0.00565762	0.00	0.00
3.1.6	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	MT	3,363	0.00565762	0.00	0.00
3.1.7	HYDRAULIC TEST OR PNEUMATIC TEST	MT	3,363	0.00282881	0.00	0.00
3.1.8	AIR & GAS TIGHTNESS TEST	MT	3,363	0.00141441	0.00	0.00
3.1.9	Completion of Trial run of Slurry pumps	MT	3,363	0.00084864	0.00	0.00
3.1.10	Trial run of Wet ball mills	MT	3,363	0.00056576	0.00	0.00
3.1.11	Commissioning of Absorber System	MT	3,363	0.00056576	0.00	0.00
3.1.12	Trial run of Oxidation Blower	MT	3,363	0.00056576	0.00	0.00
3.1.13	Trial run of FGD System	MT	3,363	0.00113152	0.00	0.00
3.1.14	Painting	MT	3,363	0.00113152	0.00	0.00
3.1.15	Area cleaning, temporary structures cutting/removal and return of scrap	MT	3,363	0.00056576	0.00	0.00
3.1.16	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	3,363	0.00056576	0.00	0.00
3.1.17	MATERIAL RECONCILIATION	MT	3,363	0.00056576	0.00	0.00
3.1.18	COMPLETION OF CONTRACTUAL OBLIGATION	MT	3,363	0.00056576	0.00	0.00
	<b>Total FLUE GAS DESULPHARISER Part &gt;&gt;&gt;&gt;</b>			<b>0.05657623</b>	<b>0</b>	<b>0</b>

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
<b>4.1 Power Cycle Piping P-91/92 (5A)</b>						
4.1.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	1,436	0.01029033	0.00	0.00
4.1.2	PLACEMENT IN POSITION	MT	1,436	0.01372045	0.00	0.00
4.1.3	ALIGNMENT	MT	1,436	0.01029033	0.00	0.00
4.1.4	WELDING / BOLTING / FIXING	MT	1,436	0.01372045	0.00	0.00
4.1.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	1,436	0.00343011	0.00	0.00
4.1.6	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	MT	1,436	0.00343011	0.00	0.00
4.1.7	HYDRAULIC TEST OR PNEUMATIC TEST	MT	1,436	0.00205807	0.00	0.00
4.1.8	FLOATING OF LINES, FINAL ADJUSTMENT OF SUPPORTS FOR COLD AND HOT VALUES (if not applicable, this portion to be clubbed along with hydraulic test/pneumatic test)	MT	1,436	0.00137204	0.00	0.00
4.1.9	BOILER LIGHT UP	MT	1,436	0.00068602	0.00	0.00
4.1.10	STEAM BLOWING	MT	1,436	0.00137204	0.00	0.00
4.1.11	Rolling & synchronization	MT	1,436	0.00068602	0.00	0.00
4.1.12	FULL LOAD	MT	1,436	0.00068602	0.00	0.00
4.1.13	TRIAL OPERATION OF UNIT	MT	1,436	0.00068602	0.00	0.00
4.1.14	Completion of all drains and vents to respective locations and placement of instrument sensors after steam blowing	MT	1,436	0.00068602	0.00	0.00
4.1.15	Painting	MT	1,436	0.00205807	0.00	0.00
4.1.16	Area cleaning, temporary structures cutting/removal and return of scrap	MT	1,436	0.00068602	0.00	0.00
4.1.17	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	1,436	0.00068602	0.00	0.00
4.1.18	Submission of 'As Built Drawings'	MT	1,436	0.00068602	0.00	0.00
4.1.19	MATERIAL RECONCILIATION	MT	1,436	0.00068602	0.00	0.00
4.1.20	COMPLETION OF CONTRACTUAL OBLIGATION	MT	1,436	0.00068602	0.00	0.00
	<b>Total P-91/92 PIPING Part &gt;&gt;&gt;</b>			<b>0.06860223</b>	<b>0</b>	<b>0</b>
<b>4.2 Piping Including P-11,12,22 (HP Piping)</b>						
4.2.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	1,812	0.01018572	0.00	0.00
4.2.2	PLACEMENT IN POSITION	MT	1,812	0.01358096	0.00	0.00
4.2.3	ALIGNMENT	MT	1,812	0.01018572	0.00	0.00
4.2.4	WELDING / BOLTING / FIXING	MT	1,812	0.01358096	0.00	0.00
4.2.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	1,812	0.00339524	0.00	0.00
4.2.6	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	MT	1,812	0.00339524	0.00	0.00
4.2.7	HYDRAULIC TEST OR PNEUMATIC TEST	MT	1,812	0.00203714	0.00	0.00
4.2.8	FLOATING OF LINES, FINAL ADJUSTMENT OF SUPPORTS FOR COLD AND HOT VALUES (if not applicable, this portion to be clubbed along with hydraulic test/pneumatic test)	MT	1,812	0.00135810	0.00	0.00
4.2.9	BOILER LIGHT UP	MT	1,812	0.00067905	0.00	0.00
4.2.10	STEAM BLOWING	MT	1,812	0.00135810	0.00	0.00
4.2.11	Rolling & synchronization	MT	1,812	0.00067905	0.00	0.00
4.2.12	FULL LOAD	MT	1,812	0.00067905	0.00	0.00
4.2.13	TRIAL OPERATION OF UNIT	MT	1,812	0.00067905	0.00	0.00



SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
4.2.14	Completion of all drains and vents to respective locations and placement of instrument sensors after steam blowing	MT	1,812	0.00067905	0.00	0.00
4.2.15	Painting	MT	1,812	0.00203714	0.00	0.00
4.2.16	Area cleaning, temporary structures cutting/removal and return of scrap	MT	1,812	0.00067905	0.00	0.00
4.2.17	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	1,812	0.00067905	0.00	0.00
4.2.18	Submission of 'As Built Drawings'	MT	1,812	0.00067905	0.00	0.00
4.2.19	MATERIAL RECONCILIATION	MT	1,812	0.00067905	0.00	0.00
4.2.20	COMPLETION OF CONTRACTUAL OBLIGATION	MT	1,812	0.00067905	0.00	0.00
<b>Total P-11,12,22 HP PIPING Part &gt;&gt;&gt;</b>				<b>0.06790480</b>	<b>0</b>	<b>0</b>
<b>4.3 LP Piping</b>						
4.3.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	939	0.00457441	0.00	0.00
4.3.2	PLACEMENT IN POSITION	MT	939	0.00609922	0.00	0.00
4.3.3	ALIGNMENT	MT	939	0.00457441	0.00	0.00
4.3.4	WELDING / BOLTING / FIXING	MT	939	0.00609922	0.00	0.00
4.3.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	939	0.00152480	0.00	0.00
4.3.6	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	MT	939	0.00152480	0.00	0.00
4.3.7	HYDRAULIC TEST OR PNEUMATIC TEST	MT	939	0.00091488	0.00	0.00
4.3.8	FLOATING OF LINES, FINAL ADJUSTMENT OF SUPPORTS FOR COLD AND HOT VALUES (if not applicable, this portion to be clubbed along with hydraulic test/pneumatic test)	MT	939	0.00060992	0.00	0.00
4.3.9	BOILER LIGHT UP	MT	939	0.00030496	0.00	0.00
4.3.10	STEAM BLOWING	MT	939	0.00060992	0.00	0.00
4.3.11	Rolling & synchronization	MT	939	0.00030496	0.00	0.00
4.3.12	FULL LOAD	MT	939	0.00030496	0.00	0.00
4.3.13	TRIAL OPERATION OF UNIT	MT	939	0.00030496	0.00	0.00
4.3.14	Completion of all drains and vents to respective locations and placement of instrument sensors after steam blowing	MT	939	0.00030496	0.00	0.00
4.3.15	Painting	MT	939	0.00091488	0.00	0.00
4.3.16	Area cleaning, temporary structures cutting/removal and return of scrap	MT	939	0.00030496	0.00	0.00
4.3.17	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	939	0.00030496	0.00	0.00
4.3.18	Submission of 'As Built Drawings'	MT	939	0.00030496	0.00	0.00
4.3.19	MATERIAL RECONCILIATION	MT	939	0.00030496	0.00	0.00
4.3.20	COMPLETION OF CONTRACTUAL OBLIGATION	MT	939	0.00030496	0.00	0.00
<b>Total LP PIPING Part &gt;&gt;&gt;</b>				<b>0.03049610</b>	<b>0</b>	<b>0</b>
<b>4.4 HANGERS &amp; SUPPORTS</b>						
4.4.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	1,426	0.00428882	0.00	0.00
4.4.2	PLACEMENT IN POSITION	MT	1,426	0.00714804	0.00	0.00
4.4.3	ALIGNMENT	MT	1,426	0.00428882	0.00	0.00
4.4.4	WELDING / BOLTING / FIXING	MT	1,426	0.00857765	0.00	0.00
4.4.5	BOILER LIGHT UP	MT	1,438	0.00028829	0.00	0.00
4.4.6	STEAM BLOWING	MT	1,438	0.00057659	0.00	0.00
4.4.7	Rolling & synchronization	MT	1,438	0.00028829	0.00	0.00
4.4.8	FULL LOAD	MT	1,438	0.00028829	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
4.4.9	TRIAL OPERATION OF UNIT	MT	1,438	0.00057659	0.00	0.00
4.4.10	Painting	MT	1,438	0.00086488	0.00	0.00
4.4.11	Area cleaning, temporary structures cutting/removal and return of scrap	MT	1,438	0.00028829	0.00	0.00
4.4.12	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	1,438	0.00028829	0.00	0.00
4.4.13	Submission of 'As Built Drawings'	MT	1,438	0.00028829	0.00	0.00
4.4.14	MATERIAL RECONCILIATION	MT	1,426	0.00028592	0.00	0.00
4.4.15	COMPLETION OF CONTRACTUAL OBLIGATION	MT	1,438	0.00028829	0.00	0.00
	<b>Total HANGERS &amp; SUPPORTS Part &gt;&gt;&gt;</b>			<b>0.02862538</b>	<b>0</b>	<b>0</b>
<b>4.5 SS Piping</b>						
4.5.1	ON PRE - ASSEMBLY WHEREVER APPLICABLE (IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	MT	26	0.00026551	0.00	0.00
4.5.2	PLACEMENT IN POSITION	MT	26	0.00035401	0.00	0.00
4.5.3	ALIGNMENT	MT	26	0.00026551	0.00	0.00
4.5.4	WELDING / BOLTING / FIXING	MT	26	0.00035401	0.00	0.00
4.5.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING, HEAT TREATMENT (IF NOT APPLICABLE, THEN THIS PORTION TO BE PAID ALONG WITH WELDING/BOLTING/FIXING)	MT	26	0.00008850	0.00	0.00
4.5.6	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	MT	26	0.00008850	0.00	0.00
4.5.7	HYDRAULIC TEST OR PNEUMATIC TEST	MT	26	0.00005310	0.00	0.00
4.5.8	FLOATING OF LINES, FINAL ADJUSTMENT OF SUPPORTS FOR COLD AND HOT VALUES (if not applicable, this portion to be clubbed along with hydraulic test/pneumatic test)	MT	26	0.00003540	0.00	0.00
4.5.9	BOILER LIGHT UP	MT	26	0.00001770	0.00	0.00
4.5.10	STEAM BLOWING	MT	26	0.00003540	0.00	0.00
4.5.11	Rolling & synchronization	MT	26	0.00001770	0.00	0.00
4.5.12	FULL LOAD	MT	26	0.00001770	0.00	0.00
4.5.13	TRIAL OPERATION OF UNIT	MT	26	0.00001770	0.00	0.00
4.5.14	Completion of all drains and vents to respective locations and placement of instrument sensors after steam blowing	MT	26	0.00001770	0.00	0.00
4.5.15	Painting	MT	26	0.00005310	0.00	0.00
4.5.16	Area cleaning, temporary structures cutting/removal and return of scrap	MT	26	0.00001770	0.00	0.00
4.5.17	PUNCH LIST POINTS/PENDING POINT LIQUIDATION	MT	26	0.00001770	0.00	0.00
4.5.18	Submission of 'As Built Drawings'	MT	26	0.00001770	0.00	0.00
4.5.19	MATERIAL RECONCILIATION	MT	26	0.00001770	0.00	0.00
4.5.20	COMPLETION OF CONTRACTUAL OBLIGATION	MT	26	0.00001770	0.00	0.00
	<b>Total SS Piping Part &gt;&gt;&gt;</b>			<b>0.00177006</b>	<b>0</b>	<b>0</b>
	<b>TOTAL CRITICAL PIPING</b>		<b>0</b>	<b>0.19739857</b>	<b>0</b>	



SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
	<b>TOTAL OF BOILER WORKS</b>		<b>0</b>	<b>0.94806162</b>	<b>0</b>	
	<b>SECTION 2- BUNKER &amp; ALLIED WORKS</b>					
	<b>STRUCTURAL WORKS: Structural steel works including all labour, material (unless otherwise specified in BOQ/contract specification)</b>					
<b>F2301</b>	<b>Erection of Structural steel of mild steel/High strength steel rolled section / built up section / combination of both conforming to IS:2062, pipe sections]</b>					
F2301.1	On pre - assembly wherever applicable (if not applicable, this portion shall be clubbed with placement in position)	MT	2,601	0.00524083	0.00	0.00
F2301.2	Placement in position	MT	2,776	0.00745840	0.00	0.00
F2301.3	Alignment	MT	2,776	0.00745840	0.00	0.00
F2301.4	Welding / bolting / fixing	MT	2,688	0.00541700	0.00	0.00
F2301.5	Completion of non destructive examination & stress relieving, heat treatment (if not applicable, then this portion to be paid along with welding)	MT	2,688	0.00361133	0.00	0.00
F2301.6	Hangers & supports etc ,Readiness of floors for concrete pouring as applicable	MT	2,870	0.00192794	0.00	0.00
F2301.7	Readiness for feeding coal(1% of each mill)& completion of side cladding	MT	2,870	0.00347029	0.00	0.00
F2301.8	Coal firing	MT	2,870	0.00038559	0.00	0.00
F2301.9	Trial Operation of Unit	MT	2,870	0.00038559	0.00	0.00
F2301.10	Painting	MT	2,870	0.00077118	0.00	0.00
F2301.11	Area cleaning ,temporary structures cutting / removal and return of scrap	MT	2,870	0.00019279	0.00	0.00
F2301.12	Punch list points /pending points liquidation	MT	2,870	0.00019279	0.00	0.00
F2301.13	Material reconciliation	MT	2,870	0.00019279	0.00	0.00
F2301.14	Completion of contractual obligation	MT	2,870	0.00019279	0.00	0.00
				0.00000000		
A1502	METAL DECK SHEET Type-I, Transporatation of MS Deck sheets from BHEL Storage yard to erection site, erection and fixing permanently colour coated galvanised MS troughed metal sheet decking plate of approved colour over roof purlins for cast-in-situ roof slab as per relevant IS code and Grade as per specification. Bare metal thickness(BMT) of deck plate shall be minimum 0.8mm with minimum trough depth of 44mm of grade G250 as per AS1397/grade S255 as per ASTM A653M/ grade S250GD as per EN 10326 with zinc coating to class Z275 and shall serve as permanent shuttering to the roof slab 40mm thick measured over crest of metal decking & shall have adequate strength to support weight of green concrete and imposed loads of min 100 kg/sqm (for two span condition) during construction between beams as per manufacturer's recommendations/ calculations/ test certificates for approval including fixing of plates to beams, side lapping, end lapping etc. all complete for below mentioned spans. The sheet shall be permanently type 4 of AS/NZS 2728. 'Z' spacers of atleast 2mm thick galvansied steel sheet of garde 350 as per IS 277 would be fixed the inner sheeting on face side at runner locations all complete as per specification.0%) paint or super polyester paint of minimum 20 micron DFT on exposed surface over primer coat of minimum 5 micron(nominal) and minum 10 micron (nominal) SMP or super polyester paint over primer coat of minimum 5 micron (nominal) on other face. SMP and polyester paint system shall be of industrial finish of product type 4 of AS/NZ2728, including fixing of sheet to top flange of beam with drawn arc welding of headed shear anchor studs @ 260mm c/c in the trough and stich screws between two adjacent sheets and sealing with epoxy sealant.The shear anchor studs shall confirm to type B studs specified in AWS D1.1/D1.1M or equivalent as shear connector of 16 mm dia & 75 mm length manufactured from cold drawn round steel bars confirming to ASTM A 29 of grade designation 1010 through 1020 of standard quality with either semi killed or killed welded by drawn arc stud welding through metal deck sheet. Measurement of profile sheeting			0.00000000		
a	Span Upto 1800mm	SQM	1,605	0.00040252	0.00	0.00
b	Span Exceeding 1800mm and upto 2500 mm	SQM	1,605	0.00040252	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
B1502	METAL DECK SHEET Type-II, Transportataion from MS deck sheets from BHEL Storage yard to erection site, erection and fixing of permanently color coated galvanised MS troughed metal sheet decking plate of approved colour over floor beams for cast-in-situ roof slab as per relevant IS code and Grade as per specification. Bare metal thickness(BMT) of deck plate shall be minimum 0.8mm with minimum trough depth of 51 mm of grade G250 as per AS1397/grade SS255 as per ASTM A653M/grade S250GD as per EN 10326 with zinc coating to class Z275 and shall serve as permanent shuttering to the roof/floor slab 150mm thick measured over crest of metal decking & shall have adequate strength to support weight of green concrete and imposed loads of min 100 kg/sqm (for two span condition) during construction between beams as per manufacturer's recommendations/ calculations/ test certificates for approval including fixing of plates to beams, side lapping, end lapping etc. all complete for below mentioned spans. The sheet shall be type 4 of AS/NZS 2728. 'Z' spacers of atleast 2mm thick galvansied steel sheet of grade 350 as per IS 277 would be fixed the inner sheeting on face side at runner locations all complete as per specification.0%) paint or super polyester paint of minimum 20 micron DFT on exposed surface over primer coat of minimum 5 micron(nominal) and minum 10 micron (nominal) SMP or super polyester paint over primer coat of minimum 5 micron (nominal) on other face. SMP and polyester paint system shall be of industrial finish of product type 4 of AS/NZ2728, including fixing of sheet to top flange of beam with drawn arc welding of headed shear anchor studs @ 260mm c/c in the trough and stich screws between two adjacent sheets and sealing with epoxy sealant.The shear anchor studs shall confirm to type B studs specified in AWS D1.1/D1.1M or equivalent as shear connector of 16 mm dia & 75 mm length manufactured from cold drawn round steel bars confirming to ASTM A 29 of grade designation 1010 through 1020 of standard quality with either semi killed or killed welded by drawn arc stud wel			0.00000000		
a	Span Upto 1800mm	SQM	3,195	0.00080183	0.00	0.00
b	Span Exceeding 1800mm and upto 2500 mm	SQM	3,195	0.00080183	0.00	0.00
A1503	Providing and fixing shear connectors of mild steel studs having 16 mm dia and minimum 65 mm projected length above purlin passing through metal decking as per relevant IS codes and specification.	QUINTAL	1	0.00001817	0.00	0.00
B1503	Providing and fixing shear connectors of mild steel studs having 19 mm dia and minimum 100 mm projected length above purlin passing through metal decking as per relevant IS codes and specification.	QUINTAL	5	0.00010823	0.00	0.00
C1503	Providing and fixing special coated fastener conforming to corrosion resistant Class 3 AS3566 and tested 1000 hrs salt spary test to be used for fixing pre-fabricated insulated Metal sandwich Panels with the structural members below.	QUINTAL	5	0.00009319	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
A1504	Transportation of cladding sheets from BHEL storage yard to erection site and fixing of External sheet of Permanent colour coated metal cladding with troughed M.S. sheets of minimum 0.6mm bare metal thickness of grade G250 as per AS1397/grade SS255 as per ASTM A653M/ grade S250GD as per EN 10326 with zinc coating to class Z275/ aluminium zinc alloy coating to class AZ150 on both sides including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed face of the sheet shall be permanently coated with silicon modified polyester(SMP silicon content 30%-50%) paint of 40 micron minimum DFT or super polyester paint of minimum 20 micron DFT on exposed surface over primer coat of minimum 5 micron(nominal) and minimum 10 micron (nominal) SMP or super polyester paint over primer coat of minimum 5 micron (nominal) on other face. SMP and polyester paint system shall be of industrial finish of product type 4 of AS/NZS2728. <b>( Sheets shall be provided by BHEL)</b>	SQM	3,825	0.00089908	0.00	0.00
B1505	Transportation from BHEL Store and erection of <b>prefabricated permanent colour coated sandwiched insulated metal cladding</b> of approved color comprising of top sheet as troughed permanently colour coated sheet and bottom sheet as plain permanently colour coated with 50 mm thick insulation sandwiched between the two sheets.(payment shall be made on surface area of the cladding including flashings) fixing screw shall be agency scope. <b>(Sheets shall be provided by BHEL)</b>	SQM	1,645	0.00033975	0.00	0.00
A 1508	transportation of sheets from BHEL Storage yard to erection site ,erection and fixing of Inner sheet of Permanent colour coated metal cladding with troughed M.S. sheets of minimum 0.6mm bare metal thickness of grade G250 as per AS1397/grade SS255 as per ASTM A653M/ grade S250GD as per EN 10326 with zinc coating to class Z275/ aluminium zinc alloy coating to class AZ150 on both sides including fixing to supports / rails by concealed fixing system (Z purlin), corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed face The sheet shall be permanently coated with silicon modified polyester(SMP silicon content 30%-50%) paint of 40 micron minimum DFT or super polyester paint of minimum 20 micron DFT on exposed surface over primer coat of minimum 5 micron(nominal) and minimum 10 micron (nominal) SMP or super polyester paint over primer coat of minimum 5 micron (nominal) on other face. SMP and polyester paint system shall be of industrial finish of product type 4 of AS/NZS 2728. 'Z' spacers of atleast 2mm thick galvanized steel sheet of grade 350 as per IS 277 would be fixed the inner sheeting on face side at runner locations all complete as per specification.	SQM	100	0.00002351	0.00	0.00
2311	Providing and fixing in position of <b>permanent mild steel bolts</b> (class 4.6 as per IS : 1367 and grade 'C' as per IS: 1363) and nuts, washers etc. up to and inclusive of 39 mm diameter and upto 300mm long for structural steel work etc all complete.	KG	11,160	0.00096683	0.00	0.00

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
2312	Providing and fixing in positing of <b>high strength structural bolts</b> (of property class 8.8 and product grade 'C' as per IS: 1367) and conforming to IS: 3757 and high strength structural hardened and tempered nuts (of property class '8' as per IS:1367) conforming to IS:6623 with hardened and tempered washers as per IS:6649 etc. up to and inclusive of 39 mm diameter and upto 300 mm long for structural steel work etc all complete.	KG	44,640	0.00563427	0.00	0.00
2313	<b>Dismantling of steel structure</b> , lowering of material and carriage of the dismantled material up to field fabrication shop / projects storage including temporary dismantling, cutting, re-welding, supporting, and restoring to correct position all temporarily dismantled members, re-alignment of all adjacent connected members to their correct positions ( weight of such adjacent members and temporarily dismantled members not payable), scaffolding, staging, tools & tackles, gas cutting, welding, consumables etc all complete.	MT	85	0.00054285	0.00	0.00
2314	<b>Addition to, alterations in and/or modification of "Erection Marks"</b> including cutting of parts, gauging of welds, cutting, grinding, fabrication, welding, drilling holes, straightening, removal of bends, raising to the required level, painting, transportation, return of unutilised steel pieces to the project store, temporarily dismantling, cutting, re-welding, supporting and restoring to correct position of all the temporarily dismantled members, realignment of adjacent connected members (weight of such temporarily dismantled and adjacent members not payable) etc all complete for the following:			0.00000000		
a	In erected position	MT	43	0.00072204	0.00	0.00
b	In fabrication yard	MT	43	0.00057520	0.00	0.00
2315	<b>Re-erection of dismantled fabricated structural steel</b> members including carriage of modified "Erection Marks" from the field fabrication shop to erection site, lifting to required position, aligning in position, tack welding, final welding and touch up painting including temporary dismantling and re-erection of temporarily dismantled members, cutting, rewelding, supporting and restoring to the correct position of all temporarily dismantled members, re-alignment of adjacent connected members (weight of such temporarily dismantled members and adjacent members not payable), scaffolding, staging, tools & tackles, gas cutting, welding, consumables etc all complete.	MT	85	0.00083237	0.00	0.00
2323	Conducting <b>radiography test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.	RM	288	0.00127634	0.00	0.00
2324	Conducting <b>ultrasonic test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.	RM	288	0.00023337	0.00	0.00
2325	Conducting <b>ultrasonic test on steel plates</b> as per ASTM-A435 or equivalent wherever specified including equipments, measuring devices, gauges, test report etc. all complete.	SQM	288	0.00010841	0.00	0.00
2326	Conducting <b>magnetic particle test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.	RM	145	0.00008436	0.00	0.00
2327	Conducting <b>dye penetration test on welds</b> wherever specified by the engineer including provision of necessary equipments, measuring devices, gauges etc. all complete (over and above the work already specified in the specifications.)	RM	288	0.00017401	0.00	0.00
<b>TOTAL OF BUNKER WORKS</b>				<b>0.05193838</b>	<b>0.00</b>	

SI No	Area Description	UOM	Balance Qty to execute	Weightage	Total Amount (Rs.)	Unit rate (Rs.)
	<b>Grand Total</b>			1.00000000	0.00	
	<b>Total amount to be quoted by bidder</b>					