

Demolition and Deconstruction of Stock yard/ Burdening Area Phase 1(North Conveyor North-South and East-West) June 2025 Start

OVERALL SITE INFORMATION

1.1 Owner	:	Tata Steel UK
1.2 Plant	:	PORT TALBOT PLANT, WALES, UK
1.3 Location	:	LATITUDE 51.590 N, LONGITUDE 3.780 E
1.4 Elevation above Mean Sea Level (MSL)	:	12.00 M FROM M.S.L

JOB DESCRIPTION: Controlled Deconstruction of all the Stock yard plant, equipment, structures, civil buildings, the removal of all the loose items from the area and grading of land in Phase 1 (North Conveyor North-South and East-West).

TIME FRAME: start date June June2025 and estimated demolition time frame as being 12months (subject to final discussions with chosen contractor)



Fig 1: Conveyor 802, 803, 814, 824



Fig 2 : Conveyor 1203

A BRIEF BACKGROUND TO THE REQUIREMENT FOR THE WORK

The stock yard of burdening area was used to store, blend and transfer the raw material to Sinter Plant & Blast Furnace. The area is situated on the west of sinter plant and is controlled by harbour and burdening department.

This requirement pertains to the complete deconstruction of the site, including all machinery, plant, equipment, buildings, and building items such as glass, asbestos, timber, felting, etc. It also encompasses structures, lighting towers, conveyors, stackers, reclaimers, civil works, civil foundations, and any other items, down to ground level. The area is then to be graded and cleared of all items

All plant, equipment, civil, and mechanical structures will be de-energized and isolated by Tata. However, the contractor must ensure that a safe method of deconstruction is identified, managed, and executed in line with safe working practices. A detailed program is to be developed upon receipt of the purchase order. An outline program has been provided for informational purposes only and should not be considered indicative of the exact time frame.

The deconstruction process will involve cutting the structural steel into manageable sizes, with a maximum dimension of 1.5m (1500mm) x 0.3m (300mm) and a maximum weight of 1.5 tonnes. The preferred method of deconstruction is cutting with a mechanical shear to minimize personnel interaction with the process. RFID chips will be provided to all personnel and positioned at key areas to alert machine operators of any encroachment, automatically ceasing operations. Explosives will not be used in this process.

All materials (light and heavy scrap) will be clearly segregated and stored in an allocated area (refer to the diagram provided) near the working site. The contractor will oversee the safe stacking and loading of materials into vehicles.

The Total demolition of the buildings is to be managed appropriately and are to be surveyed for contaminated materials prior to work starting. A Demolition asbestos survey will be undertaken and all results given to the Principal Contractor to ensure that all Hazardous materials are identified, quantified, removed and disposed of in accordance with legislation. The asbestos will be transported to the internal asbestos cells managed by Tata preferred contractor and all disposal notes made available to Tata.

All buildings will be demolished by mechanical excavator grab/cutting machinery (non-explosive method) with rubble being filtered by the principal contractor and disposed of again within legislation. This would be sent to Tata recycling centre for further processing: all disposal notes will be made available to Tata.

Noise monitoring will be carried hourly using fixed real time data monitoring systems installed by the principal contractor, the reading would be available to Tata at any time should the necessity prevail. Demolition works are proposed to be undertaken during periods identified with an 'X' within the table below:

Task Description	Core Hours*	Evenings and Weekends**	Public Holidays**
Demolition with Excavator with Hydraulic Hammer Attachment	X		
Demolition without Excavator with Hydraulic Hammer Attachment	X	X	X

Notes:

* 07:00 – 19:00 Monday – Friday, 07:00 – 13.00 Saturday

**19:00 – 20:00 Monday – Friday, 13.00 – 20:00 Saturday, 07:00 – 20:00 Sundays and Public Holidays

The working pattern for contractors will be:

Week 1: Monday – Sunday

Week 2: Monday – Friday (early finish to enable travel from site)

No works outside the permitted hours will be undertaken without the permission of the local planning authority.

A dust suppression system using domestic aspirated water will be employed to prevent the risk of Legionella. A full risk assessment will be carried out by the principal contractor and shared with Tata.

All Lego blocks will be transported to Tata recycling centre for any further processing or storage for use elsewhere.

All building materials removed from site.

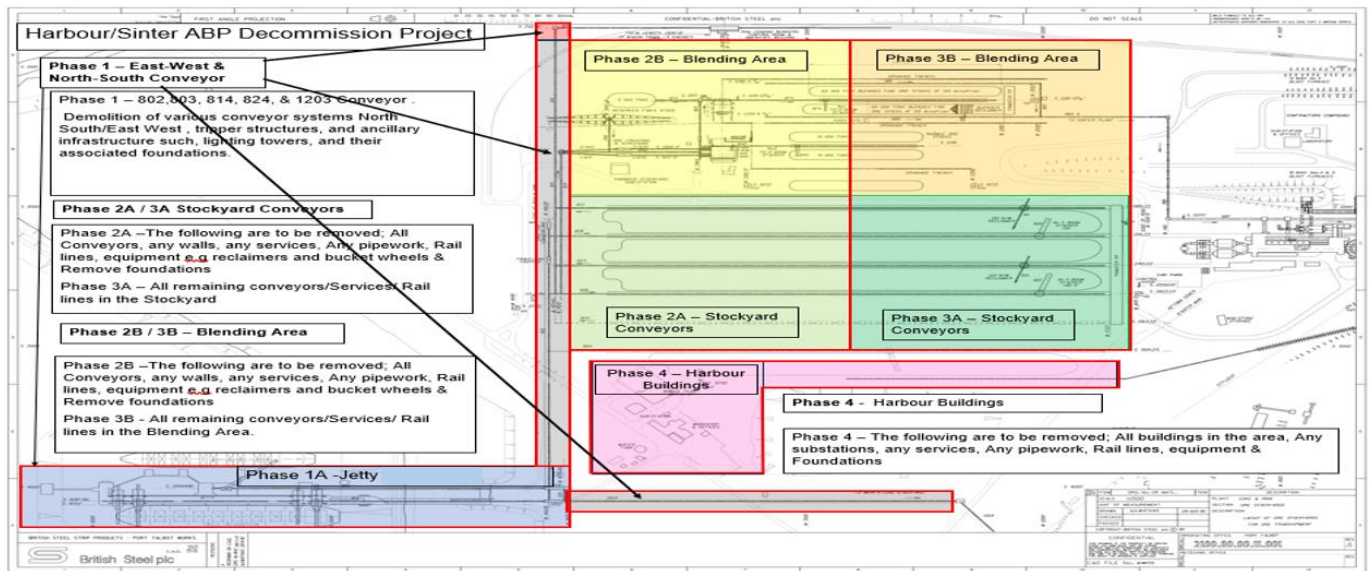


Fig 3: Phase Layout drawing Grey colored (Indicative only)



Fig 4 Aerial Photo showing the area of Phase 1(North Conveyor North -South and East-West)

1	GTU foundation for 814
2	Steel Tank with supports & access stair, structure under Conv. 814
3	Building under 814 near weighbridge
4	Conveyor 824 trestle foundation
5	Solid base under Conveyor 824
6	Lego Bridge Spillage
7	Weighbridge
8	Wheel wash
9	VAT near 823
10	Building at end of 806
11	Lego brick wall x2 spillage bin near head end of conveyor 804 beside 803
12	Vat under 814 near 200t Bunker
13	Lighting tower
14	Junction Station No.-1, at North end of Conv.-814
15	Tripper Structure Over Conv. – 802
16	Tripper Structure Over Conv. – 803
17	Headframe
18	Coal Handling Contractor Room
19	GTU drive motor footing

TABLE - 1

Scrap/Cutting and Storage Area:

Sizeable materials will be removed from the Jetty and transported to the segregated scrap reclamation area highlighted in the Yellow boxes below; these materials will be further processed by mechanical means (Shears) into allocated sizes and stored in readiness for collection. There is no requirement to ring-fence the site as it will be processed in-situ and within a segregated boundary area. These defined areas are already in place with hard standing and compacted ground. This is to also ensure that there is no encroachment into/onto any other areas within the existing ring fenced site.

The defined areas are already in place with hardstanding, ensuring safe and organized operations.



Fig 5: Lay down area 1, 2 ,3,4,5 (Marked in Yellow Boxes)



Fig 6 : Laydown area 1



Fig 7 : Laydown area 2



Fig 8 : Laydown area 3



Fig 9: Laydown area 4



Fig 10: Laydown area 5

BUILDINGS/CONVEYORS

CONVEYORS

PHASE 1B - CONVEYOR STEEL STRUCTURE

Sl.No	Conveyor	Length (m)	Width (m)	Height (m)	Average Wt. (Kg/m)	Total (Te)	Remark
1	814	510	1.91	7.75	389	198	Mostly on over ground & partly ground
2	824	257	1.91	6.75	280	72	Mostly on ground & partly over ground
3	802	576	2.44	1.91	377	217	On ground conv
4	803	563	2.44	1.91	356	200	On ground conv
5	1203	526	2.44	10	595	313	On ground conv
Estimated Total Tonnage (Te)						1000	

TABLE -2

CONVEYOR EQUIPMENT

Sl. No.	Item Description	Conv-814	Conv-824	Conv-802	Conv-803	Tripper Over Conv.-802	Tripper Over Conv.-803	Conv-1203	Total Qty. (Nos)	Total Wt. (Te)
1	Drum-1400mm(Φ)-Nos.	0	0	2	2	0	0	0	4	68
2	Drum-1000mm(Φ)-Nos.	2	1	3	3	2	2	3	16	164
3	Drum-800mm(Φ)-Nos.	6	5	2	2	0	0	3	18	131
4	Drum-600mm(Φ)-Nos.	0	0	2	2	1	1	7	13	78
5	Drum-250mm(Φ)-Nos.	1	1	0	0	0	0	0	2	7
6	Impact Roller-178mm(Φ)-Nos.	37	19	0	0	0	0	27	83	3
7	Carrying Roller-168mm(Φ)-Nos.	1554	783	1746	1705	69	69	1727	7653	314
8	Carrying Roller Bracket-Nos.	533	269	588	574	23	23	584	2594	
9	Return Roller-152mm(Φ)-Nos.	0	0	0	0	0	0	0	0	0
10	Return Roller-127mm(Φ)-Nos.	140	73	145	142	0	0	179	679	23
11	Return Roller(V)-127mm(Φ)-Nos.	49	25	24	24	0	0	49	171	5
12	Return Roller Bracket-Nos.	24	12	12	12	0	0	24	84	
13	Drop Wt. Carriage /Counter t.(Te)	13	10	14	14	0	0	0	0	51
Estimated Total Tonnage (Te) =									844	

TABLE 3

STEEL STRUCTURES & EQUIPMENT

Sl. No	Item Description	Length (m)	Width (m)	Height (m)	Total (Te)	Remark
1	Tripper Structure Over Conv. - 802	21.00	2.44	3.00	21	Tripper Equipment Steel Structure
2	Tripper Structure Over Conv. - 803	21.00	2.44	3.00	21	Tripper Equipment Steel Structure
3	Steel Tank with supports & access stair, structure under Conv. 814	7.00	3.50	6.50	11	Steel tank support structure
4	Junction Station No.-1, at North end of Conv.-814	10.60	6.70	13.00	22	Structure Skeleton only.
5	Weigh bridge	15	6	--	--	1 No
6	Wheel wash	6	6	--	--	2 Nos
7	Lighting tower	5	5	50	--	1 No
			Estimated Total Tonnage (Te) =		75	

TABLE 4**CIVIL STRUCTURES**

S.No	Item	Nos	Length	Height	Width	Remark
1	GTU foundation on 814 conveyor	1	3.4m	1.8m	0.8m	Rectangular concrete block
2	Vat under 814 near 200t Bunker	1	6.6m	0.8m	5.6m	
3	Building under 814 near weight bridge(near 200t bunker)	1	2.4m	2.4m	2.4m	
4	Conveyor 824 trestle foundation	7	0.9m	0.9m	3.6m	7 blocks
5	Solid foundation base under 824 adjacent to trestle foundation	1	13.5 m	0.8m	5m	4 staircase attached
6	Lego brick spillage bin at head of 802 conveyor	--	13.6m	2.4m	6.5m	2 bays
7	Vat near 823	1	7.2m	0.5m	3.6m	1 Rectangular slab attached
8	Building at tail end of 806	1	13 m		3.5m	3 safety door, 1 small foundation

S.No	Item	Nos	Length	Height	Width	Remark
9	Lego brick wall x2 spillage bin near head end of conveyor 804 beside 803	--	6.4m	2.4m	0.8m	Back wall of spillage area no longer standing
10	Gear box footings	4	3m	0.3m	2.6m	2 Nos for 802 conv., 2 Nos for 803 conv.
11	Stairs footing	1	1.8m	0.5m	1.5m	2 Steps
12	Foundation for stringer post of 802	86	3m	1m	0.9m	
13	Foundation for stringer post of 803	86	3m	1m	0.9m	
14	Foundation for stringer post of 814	91	3m	0.250m	0.225m	
15	Foundation for stringer post of 824	91	3m	0.250m	0.225m	
16	Coal contractor control room	1	11m	6.5m	5.5m	2Steel stair

TABLE 5



Fig 11: Con 814



Fig 12: Con 814



Fig 13 : Tripper car on Con 803



Fig 14 : Building at end of 806



Fig 15: Tripper car on Con 802



Fig 16 : Con 803



Fig 21 : Junction house 814 , Steel tank



Fig 22: Vat, Wheel wash, Weigh Bridge



Fig 23 : Building at end of 806



Fig 24: Lego block wall



Fig 25 : Vat near conv. 823 & Lighting tower

What is Being Removed	Reference No. In Report	How is this being Dismantled	Date From	Date To	Any Laydown area Required
Conveyor 802 and tripper car & GTU	Fig 1,4,15,18	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Laydown 2,3, Fig 7,8
Conveyor 803 and tripper car & GTU	Fig 1,4,13,16,19	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Laydown 2,3, Fig 7,8
Conveyor 824 & GTU	Fig 1,4	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 1,2, Fig 6,7
Conveyor 814 and junction house & GTU	Fig 1,4,11,12	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 1,2, Fig 6,7
Conveyor 1203 and GTU	Fig 2,4,17	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 4,5 Fig 9,10,
Steel tank	Table 1 S.No2, Fig 4, 21	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 1 Fig 6
Weigh Bridge	Table 1, S. No 7, Fig 4, 22	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 2 Fig 7
Wheel Wash	Table 1, S. No 8, Fig 4, 22	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 2 Fig 7
VAT near 823	Table 1, S. No 9, Fig 4, 25	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes, Laydown 2 Fig 7
Building at end of 806	Table 1, S. No 10, Fig 4, 23	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes, Laydown 2 Fig 7
Lego brick wall x2 spillage bin near head end of conveyor 804 beside 803	Table 1, S. No 11, Fig 4, 24	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes, Laydown 2 Fig 7
Vat under 814 near 200t Bunker	Table 1, S. No 12, Fig 4, 22	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes, Laydown 2 Fig 7
Lighting tower	Table 1, S. No 13, Fig 4, 25	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes, Laydown 2 Fig 7
Coal Handling Contractor Room	Table 1, S. No 18, Fig 4, 20	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes, Laydown 5 Fig 10

Table 6

KEY ARRANGEMENT

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

MECHANICAL ITEMS LIST 70030-600 CONVR

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	CONVEYOR FRAME	1	EA
2	CONVEYOR ROLLER	1	EA
3	CONVEYOR PULLEY	1	EA
4	CONVEYOR DRIVE MOTOR	1	EA
5	CONVEYOR BELT	1	EA
6	CONVEYOR STRUCTURAL STEEL	1	EA
7	CONVEYOR SUPPORT ROLLER	1	EA
8	CONVEYOR DRIVE ROLLER	1	EA
9	CONVEYOR BELT ROLLER	1	EA
10	CONVEYOR DRIVE MOTOR	1	EA
11	CONVEYOR BELT	1	EA
12	CONVEYOR STRUCTURAL STEEL	1	EA
13	CONVEYOR SUPPORT ROLLER	1	EA
14	CONVEYOR DRIVE ROLLER	1	EA
15	CONVEYOR BELT ROLLER	1	EA
16	CONVEYOR DRIVE MOTOR	1	EA
17	CONVEYOR BELT	1	EA
18	CONVEYOR STRUCTURAL STEEL	1	EA
19	CONVEYOR SUPPORT ROLLER	1	EA
20	CONVEYOR DRIVE ROLLER	1	EA
21	CONVEYOR BELT ROLLER	1	EA
22	CONVEYOR DRIVE MOTOR	1	EA
23	CONVEYOR BELT	1	EA
24	CONVEYOR STRUCTURAL STEEL	1	EA
25	CONVEYOR SUPPORT ROLLER	1	EA
26	CONVEYOR DRIVE ROLLER	1	EA
27	CONVEYOR BELT ROLLER	1	EA
28	CONVEYOR DRIVE MOTOR	1	EA
29	CONVEYOR BELT	1	EA
30	CONVEYOR STRUCTURAL STEEL	1	EA
31	CONVEYOR SUPPORT ROLLER	1	EA
32	CONVEYOR DRIVE ROLLER	1	EA
33	CONVEYOR BELT ROLLER	1	EA
34	CONVEYOR DRIVE MOTOR	1	EA
35	CONVEYOR BELT	1	EA
36	CONVEYOR STRUCTURAL STEEL	1	EA
37	CONVEYOR SUPPORT ROLLER	1	EA
38	CONVEYOR DRIVE ROLLER	1	EA
39	CONVEYOR BELT ROLLER	1	EA
40	CONVEYOR DRIVE MOTOR	1	EA
41	CONVEYOR BELT	1	EA
42	CONVEYOR STRUCTURAL STEEL	1	EA
43	CONVEYOR SUPPORT ROLLER	1	EA
44	CONVEYOR DRIVE ROLLER	1	EA
45	CONVEYOR BELT ROLLER	1	EA
46	CONVEYOR DRIVE MOTOR	1	EA
47	CONVEYOR BELT	1	EA
48	CONVEYOR STRUCTURAL STEEL	1	EA
49	CONVEYOR SUPPORT ROLLER	1	EA
50	CONVEYOR DRIVE ROLLER	1	EA
51	CONVEYOR BELT ROLLER	1	EA
52	CONVEYOR DRIVE MOTOR	1	EA
53	CONVEYOR BELT	1	EA
54	CONVEYOR STRUCTURAL STEEL	1	EA
55	CONVEYOR SUPPORT ROLLER	1	EA
56	CONVEYOR DRIVE ROLLER	1	EA
57	CONVEYOR BELT ROLLER	1	EA
58	CONVEYOR DRIVE MOTOR	1	EA
59	CONVEYOR BELT	1	EA
60	CONVEYOR STRUCTURAL STEEL	1	EA
61	CONVEYOR SUPPORT ROLLER	1	EA
62	CONVEYOR DRIVE ROLLER	1	EA
63	CONVEYOR BELT ROLLER	1	EA
64	CONVEYOR DRIVE MOTOR	1	EA
65	CONVEYOR BELT	1	EA
66	CONVEYOR STRUCTURAL STEEL	1	EA
67	CONVEYOR SUPPORT ROLLER	1	EA
68	CONVEYOR DRIVE ROLLER	1	EA
69	CONVEYOR BELT ROLLER	1	EA
70	CONVEYOR DRIVE MOTOR	1	EA
71	CONVEYOR BELT	1	EA
72	CONVEYOR STRUCTURAL STEEL	1	EA
73	CONVEYOR SUPPORT ROLLER	1	EA
74	CONVEYOR DRIVE ROLLER	1	EA
75	CONVEYOR BELT ROLLER	1	EA
76	CONVEYOR DRIVE MOTOR	1	EA
77	CONVEYOR BELT	1	EA
78	CONVEYOR STRUCTURAL STEEL	1	EA
79	CONVEYOR SUPPORT ROLLER	1	EA
80	CONVEYOR DRIVE ROLLER	1	EA
81	CONVEYOR BELT ROLLER	1	EA
82	CONVEYOR DRIVE MOTOR	1	EA</

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The diagram illustrates the overall arrangement of conveyor 803, showing its layout from the tail end to the head. Key components and their assembly drawing codes are labeled:

- TAIL END & LOADING SECTION** (CODE No J085A300)
- STANDARD FRAMEWORK** (CODE No J086A900)
- SHEETING SUPPORTS** (CODE No J086A900)
- GRADING SECTION** (CODE No J086H400)
- SAMPLING PLATFORM** (CODE No J086B900)
- CONVEYOR & TRIPPER SUPPORT SECTIONS** (CODE No J086B100)
- CONVEYOR 803** (CODE No J086B100)
- GTU TOWER ASSEMBLY** (CODE No J086B400)
- TRIPPER ASSEMBLY** (CODE No J085C100)
- LOOP CARRIAGE ASSEMBLY** (CODE No J086B500)
- DRIVE & LOOP ASSEMBLY** (CODE No J086B500)
- HEAD STRUCTURE ASSEMBLY** (CODE No J086B500)

Dimensions and levels are indicated throughout the drawing, including S.O.P. 9832 LVL, 20807, 19130, 125677, 125677, 13289, and 9832 LVL.

BS. DR4N. 2107 21 15 12048

TITLE : OVERALL ARRANGEMENT OF CONVEYOR 803

B. STEEL - PORT TALBOT - ORDER No 95/15586/HM1

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WELDING SYMBOLS - BS499, PART 2
SCREW THREADS - BS 3443
SURFACE FINISH - EXCEPT AS SHOWN

TOLERANCES ON ALL UNLIMITED MACHINE DIMENSIONS:-
UP TO 75 +/0 -0.3
OVER 75 UP TO 300 +/0 -0.4
OVER 300 UP TO 600 +/0 -0.5
OVER 600 +/0 -0.6

CONCENTRICITY TOLERANCE TO BE 0.13 T.I.R. EXCEPT WHERE OTHERWISE STATED

DEGREE OF STRAIGHTNESS TO BE 0.5mm PER 100mm FIT UP GAP BETWEEN COMPONENTS NOT TO EXCEED 1.5mm

FABRICATED DIMENSIONS:-
UP TO 300mm +/- 1mm
300 TO 1000mm +/- 2mm
OVER 1000mm +/- 3mm
HOLE DIAMETERS +/- 0.4mm
BEND RADIUS 2 x TYPICAL THICKNESS

CHECKED: S.W. 24.11.95
APPROVED: R.S.T. 24.11.95

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