

Demolition and Deconstruction of Harbour Jetty Conveyors, Structures, Bunkers Building and Associated Equipment (Phase-1A) 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:

The Project is the Controlled Deconstruction of all the Conveyors, Conveyor Equipment, Steel Structures and Equipment, Civil Structures/Buildings and Equipment on the Harbour Jetty.

TIME FRAME: *Start date June 2025 and estimated demolition time frame as being 12months (subject to final discussions with chosen contractor)*

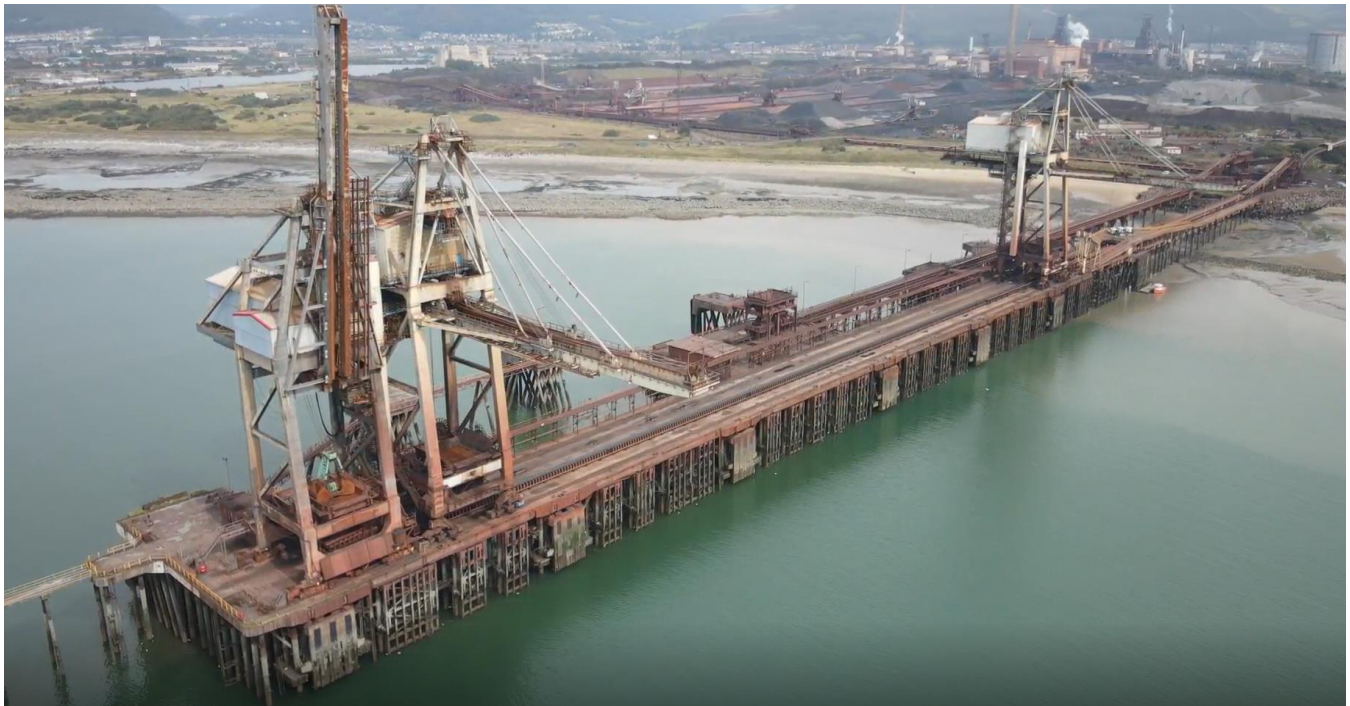


Fig -1: Overview of jetty area

A BRIEF BACKGROUND TO THE REQUIREMENT FOR THE WORK

The Harbour Jetty has been used for decades to transfer raw materials from ships to the stockyards via conveyors systems. The area is located in the harbour area on the west side of site.

This requirement is the Clearing the Harbour Jetty from 2 conveyors, 3 Bunkers, a Pipe/walkway support structure, 1 redundant sub-stations & other ancillaries on the Jetty in Phase 1. As this is an aging jetty and the hazards that come from working on/near water there are many consideration that must be addressed.

All plants, equipment, civil and mechanical structures will be de-energised and isolated by Tata and ABP (Where Required) however, the contractor will ensure that a safe method of deconstruction is identified, managed and executed in line with the safe working practices with a detailed program developed following receipt of purchase order. An outline program has been supplied for information purpose only and is not indicative of time frame

This deconstruction consists of using a 'Crane Barge' system, to lift sections of the conveyors, structures, bunkers and place in area ready for further cutting the structural steel into manageable sizes either by mechanical cutting grab or with minor Oxy/Propane cutting equipment to a maximum of 1.5m (1500mm) x 0.3m (300mm) and a Maximum Weight 1.5te. The preferred method of cutting is by mechanical cutting shears namely Excavator Hydraulic shears, this is to avoid (where possible) any personnel interaction with the process and avoid potential injury. Radio Frequency Identification Tags (RFID) chips will be made available to all personnel to wear on their helmets as well as being positioned at key areas to inform machine driver of any encroachment, should the RFID be activated, this would immediately cease all machine operations There will be no explosives used in this process.

These materials (light and Heavy scrap is to be clearly segregated) and are to be stored in an allocated area (See diagram below) nearest to the working area from where, the Contractor will manage the safe stacking and loading of materials into vehicles.

The Total demolition of the buildings are to be managed appropriately and are to be surveyed for contaminated materials prior to work starting. A Demolition asbestos survey has been 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, aspirated sprayed water will be used to eliminate the travelling of dust during building demolition.

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. The demolition programme for this phase is approximately 16 weeks post site set up. 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.

The dust suppression system suppression is specifically for the building demolition to suppress any dust during demolition however should it be required then this will also be used on any structural demolition. This is used with domestic water (aspirated) to avoid the potential for Legionella with a full risk assessment undertaken by the Principal Contractor and made available to Tata.

All building materials removed from site.

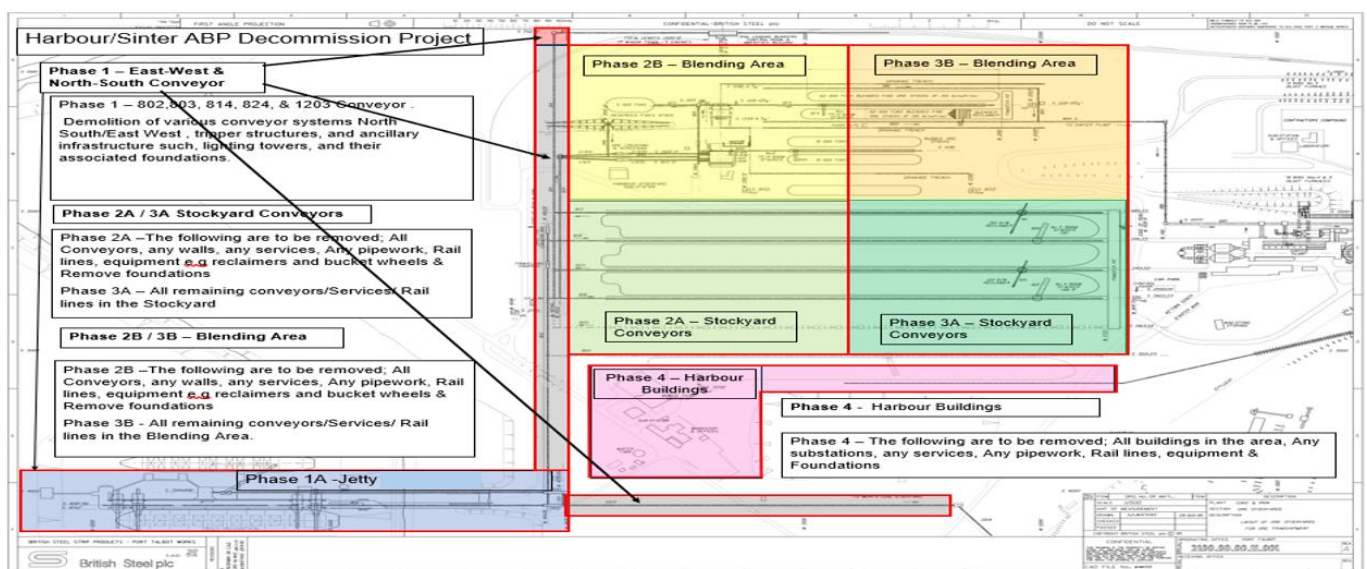


Fig 2 : Phase Layout drawing (Indicative only)

Scrap/Cutting and Storage Area:

Sizeable materials will be removed from the Jetty and transported to the segregated (Heras Fence) 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. 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 outside the ring fenced site



Fig 3: Lay down area (Marked in Yellow Boxes)



Fig 4: Laydown area -1



Fig 5 :Laydown Area -2

Items to be Removed in Association With the Jetty and Conveyor Equipment

Structural Items

Sl. No.	Item	Length (m)	Width (m)	Height (m)	Approx. Struct. (te)	Approx. Mech (te)	Total weight (te)	Remark
1	Conveyor 801	100	2.2	7.50	39	185	402	Overhead Conveyor
		500	2.2	1.20	178			Ground Conveyor
2	Conveyor 800	100	2.2	7.50	39	185	402	Overhead Conveyor
		500	2.2	1.20	178			Ground Conveyor
3	Drive Head Housing-801	8	6.172	7.00	14	20	34	Drawing No. 801 GA (MM/2/13)

4	Drive Head Housing-800	8	6.172	7.00	14	20	34	
5	Primary Sampler Housing-801	24	6.2	10.10	53	45	98	Drawing No. 178113 (75075/801/15)
6	Primary Sampler Housing-800	24	6.2	10.10	53	45	98	
7	Walkway/pipe support rack	295	1.3	5.00	77	20	97	Site dimension taken. Wt considered = 40kg/m3
8	Jetty Bunker	12	8	10.00	115	40	155	Site dimension taken.
9	Unloader Rail	1180			118	0	118	Including fixing clips etc
10	Miscellaneous				300		300	Handrail, Grating, Fencing etc.
TOTAL STEEL WEIGHT(Te) =							1738	

TABLE -1

NOTE: In addition to the above tabulated steel quantity, Tenderer to take into account dismantling the pipe work of varying diameter such as 300mm dia, 150mm dia, 100mm dia. of approximate length of 10000m.

Civil Buildings



Fig 6 : Substation – 2

S.No	Item Description	Nos.	Length (m)	Width (m)	Height (m)	Remark
1	Sub-Station-2	2	18.5	12	4	Approx. building size

TABLE - 2

Conveyors/Structures/Buildings



Fig 7 : Conveyor 800 in yellow (1 off 4 Part) & Conveyor 801 in Red (1 off 4 Part)

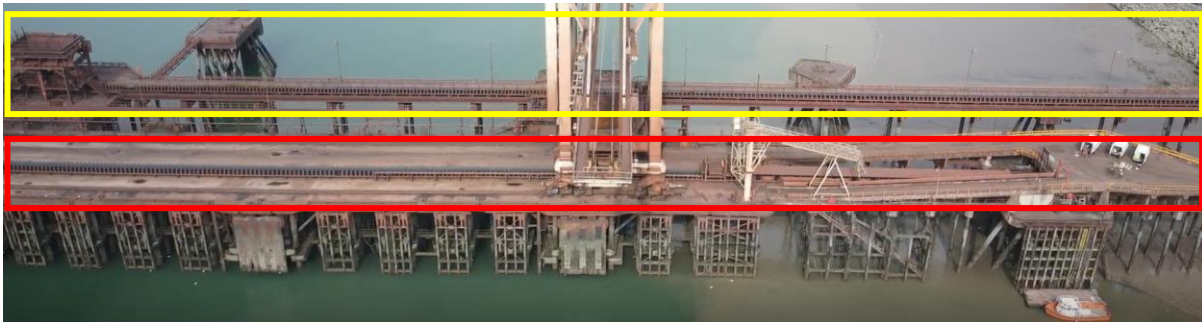


Fig 8 : Conveyor 800 in yellow (2 off 4 Part) & Conveyor 801 in Red (2 off 4 Part)



Fig 9 : Conveyor 800 in yellow (3 off 4 Part) & Conveyor 801 in Red (3 off 4 Part)



Fig 10 : Conveyor 800 in yellow (4 off 4 Part) & Conveyor 801 in Red (4 off 4 Part)

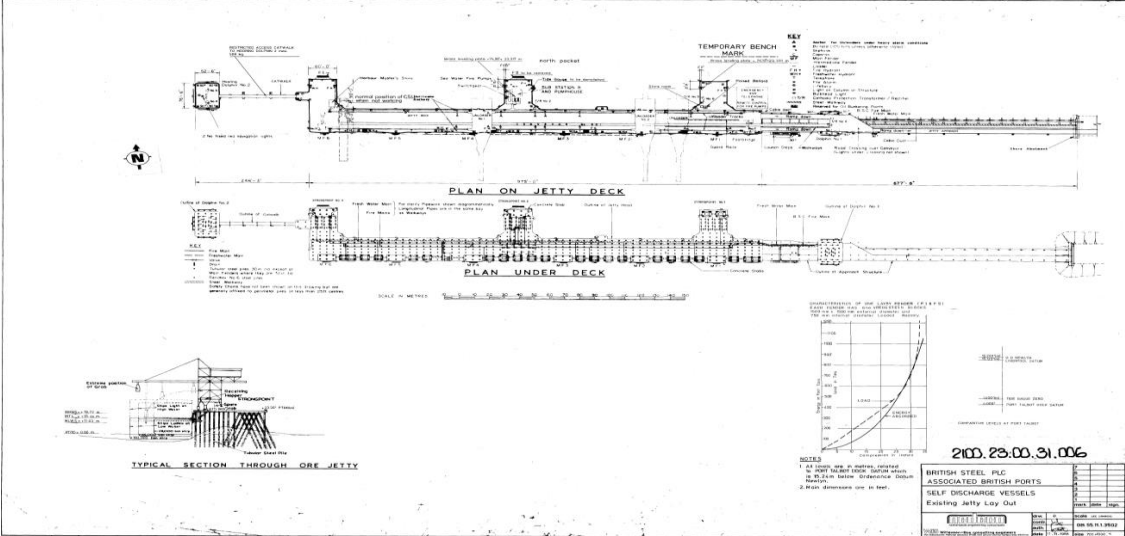


What is Being Removed	Reference No. In Report	How is this being Dismantled	Date From	Date To	Laydown Area
Conveyor 800 & Jetty bunker	Fig 7,8,9,10	Mechanical - cutting and burning by machine and lifting from Barge	June 2025	March 2026	Yes. Fig 3,4,5
Conveyor 800 Hopper	Fig 11	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Fig 3,4,5
Conveyor 800 Junction House	Fig 11	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Fig 3,4,5
Conveyor 801	Fig 5,6,7,8	Mechanical - cutting and burning by machine and lifting from Barge	June 2025	March 2026	Yes. Fig 3,4,5
Conveyor 801 Hopper	Fig 11	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Fig 3,4,5
Conveyor 801 Junction House	Fig 11	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Fig 3,4,5
Sub-Station -2	Fig 6	Mechanical – Excavator with crushing attachment	June 2025	March 2026	Yes. Fig 3,4,5
Junction house of conveyors (800, 801,1200,1201,1202) & Primary sampler for 800 ,801	Fig 11	Mechanical - cutting and burning by machine and lifting from land	June 2025	March 2026	Yes. Fig 3,4,5

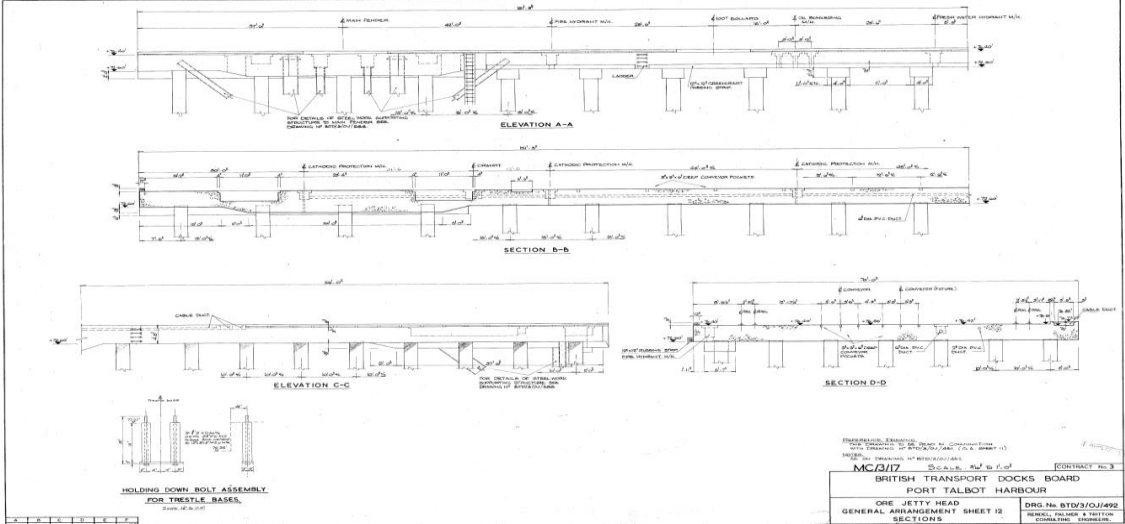
Fig 11: Conv 800, 801, 1200, 1201 & 1202 Junction houses, Conv 800, 801 Primary sampler & Hopper

Drawings Available

Drawing 1 - Drawing of the Jetty



Drawing 2 – Jetty section



Drawing 3 - GA of Conveyors 800 & 801

