

Scrap Management in indian railways

scrap Management

- * Introduction to Scrap

- * Consists of thing

- * Not Wanted or Cannot be used

- * For Original Purpose

- * But have Some Value

- * For the Material

- * They are made off

scrap Management

- * Introduction to Scrap (Contd...)
- * May also consists of
 - * Recyclable Materials left over from Manufacturing or Consumption
 - * Cut Parts
 - * Turning Scrap
 - * Surplus/Obsolete Materials
- * Unlike Waste
- * Scrap has Monetary Value

scrap Management

- * Scenario in Indian Railways

- * As per Year Book 2016-17

- * Total Revenue Generation - Rs. 2718 Cr

- * Through Scrap Disposal

- * Total Scrap Disposed - 1 Million Ton

scrap Management

- * Indian Railways

- * Major Source of Scrap
Generation

Objective of Scrap Management

To Decongest Work Area

To Earn Revenue

scrap Management

* Scrap - Major Head

Contribution

P Way and Fittings	50%
Depot Scrap	30%
Rolling Stocks	8%
Misc Scrap	12%

scrap Management

* Scrap Category for getting Better Price

Cast Iron(CI Sleepers)

Turning & Boring (Process waste)

Light Melting Scrap (Sheets, plates etc.)

Heavy Melting scrap (Wheels, axles etc.)

Rolling Scrap (Rails)

Non-ferrous Scrap (Copper, Brass, Lead etc.)

Condemned Wagons, Coaches & Locos

Concrete Sleeper

Misc. Scrap (Paper, Furniture, Cloth etc.)

Waste Oil

scrap Management

* Steps of Scrap Management

* Identification

Segregation

Disposal

scrap Management

- * Arising of Scrap

- * Rails and Fittings from

- * Track Renewal

- * Gauge Conversion

- * As is where is basis

- * Depot Scrap

- * From Shops and Sheds

- * Transported to Store Depot

- * As is Where is basis

scrap Management

- * Arising of Scrap (Contd...)
- * Rolling Stocks
- * Overage or Obsolete or Accident involved
- * As is where is basis
- * Misc Scrap
- * Machinery & Plants
- * Papers Empties
- * Furniture Wood Items
- * As is where is basis
- * Transported to Store Depot

scrap Management

- * Identification

- * Rails and Fittings

- * Stacking of Rails on Site

- * Stacking of Fittings at P Way Depot

- * Survey of Above Items by

- * Survey Committee

- * Consist of

- * Engineering

- * Stores

- * Finance

scrap Management

- * Identification (Contd...)

- * Rails and Fittings

- * Physical Examination by Survey

- Committee

- * Recommendation of Survey

- Committee

- * Unserviceable or Obsolete

- * Acceptance by Accepting Authority

- * To declare as Scrap

scrap Management

- * Identification

- * Depot Scrap

- * Surplus Stock Items

- * Items rejected during Maintenance

Cut parts generated during

Manufacturing

Repair

T&P Items

At Premises of

Store Depot

User

scrap Management

- * Identification

- * Surplus Stock Items

- * Items not issued in Last 24 Months

Separate Ward in Store Depot

Surplus

due to Change in Design/Standards

Advice for change in Design

Estimate of Loss

due to Replacements of Rolling stock

scrap Management

- * Identification

- * Surplus Stock Items

- * Write off

Survey Committee Report

Items Description

Book Value

Scrap Value

Loss Incurred

Acceptance

scrap Management

* Identification

- * Scraps received from Shops/Sheds
- * Items rejected during Maintenance
- * Cut parts generated during Mfg/Repair
- * T&P Items
- * All Scraps that are susceptible to be recycled
 - * Roller Bearings, Tumbler Switch
 - * Ball Bearings, Cutting Tools
 - * Pneumatic Tools
 - * To be disfigured/broken (Letter 4-3-83)

scrap Management

- * Identification

- * Items rejected during Maintenance
Cut parts generated during Mfg/Repair
Normally sent to Store Depot
After Weighment
Items like Turning Boring
Difficult to Transport
Offered to Stores for Sale
Indicating Weight Location
Sold As is Where is Basis

scrap Management

- * Identification

- * T&P Items

- * have Codal Life

- * Condemnation as per SOP

- * PHOD/DRM/CWM – Full Power
JAG – Upto Rs. 10000/- Scrap

- * Value

- * SS – Upto Rs. 5000/- Scrap

- * Value

- * JS – Upto Rs. 2500/- Scrap

- * Value

- * Maintenance of T&P Register

scrap Management

- * Identification (Contd...)

- * Rolling Stocks

- * Identification of Rolling Stocks

- * Wagon

- * Coach

- * Locomotive

- * Tower Car

- * Track Machines

- * Rail Cranes

scrap Management

- * Identification (Contd...)

- * Rolling Stock - Wagon

- * Authority to approve Condemnation

- * Overage – CWM/CRSE/CWE/PCME
Without Finance

Concurrence

- * Underage

- * Accident Involved – PCME

- * Without Finance

Concurrence

scrap Management

- * Identification

- * Rolling Stock – Wagon (Contd...)

- * Authority to approve Condemnation

- * Non-Accident Life > 25 Years

- * PCME with Finance

Concurrence

- * Non-Accident Life < 25 years

- * Railway Board

- * With GM Approval and

- * PFA Concurrence

Scrap management

- * Process of Condemnation - Wagon (Letter 2-4-18)
- * Whenever a Wagon is intercepted
- * for Condemnation
- * Certificate for Interception is to be
- * generated on IRWMS
- * To be made for individual Wagon
- * To be Part of Condemnation Proposal
- * being put up to
- * Finance (if required)
- * Competent Authority

Scrap management

- * Process of Condemnation - Wagon (Contd...)
- * Condemnation Proposal
- * Condition Report by Sr DME/Dy CME
- * after Physical Verification
- * Consists of
 - * Wagon No. Railway
 - * Type Build Year
 - * Condition Approx Weight
 - * Joint Note if Accident Involved
 - * Excluded Fittings if any
 - * Financial Justification if Underage
- * Similar for Coach Also

Scrap management

- * Process of Condemnation of Wagon (Contd...)
- * After Condemnation by Competent Authority
- * Concerned Workshop/Division will
- * Upload the Approval Document
- * on IRWMS
- * After uploading
- * Certificate of Approval of
- Condemnation
- * is to be Generated on IRWMS
- * for Each Wagon
- * Certificate will be attached to Advice for
- * Offer for Sale to Stores Department

scrap Management

- * Identification

- * Rolling Stock - Coach

- * Authority to approve Condemnation

- * Overage – CWM/CRSE/CWE/PCME
Without Finance

Concurrence

- * Underage

- * Accident Involved – PCME

- * Without Finance

Concurrence

scrap Management

* Identification

* Rolling Stock – Coach (Contd...)

* Authority to approve Condemnation

* Non-Accident

* Residual Life < One POH Cycle

* Beyond Economical Repair

* PCME/CWM

* without Finance

Concurrence

* Residual Life > One POH Cycle

* GM with PFA Concurrence

scrap Management

- * Identification

- * Rolling Stock – Locomotive

- * (Rly Board Letter 17-03-2017)

- * Overage - PCME

- * Age cum Condition Basis

- * Proposal by Sr DME/CWM

- * Personally Inspected

- * Uneconomical to retain in

Service

- * Vetting by Associated

Finance

- * Personal Approval of PCME

- * Information to Railway

scrap Management

- * Identification

- * Rolling Stock – Locomotive (Contd...)

- * Underage – Railway Board

- * Accident Involved

- * Condemnation Proposal to

- Board

- * Uneconomical to retain in

- Service

- * Inspection by 3 HoDs

- * Action Taken against Staff

- Copy of Police Report if

- required

- PCME Approval

scrap Management

- * Identification

- * Rolling Stock – Locomotive (Contd...)

- * Underage – Railway Board

- * Non-Accident Involved

- * Some Defects beyond Repair

- * Condemnation Proposal to

Board

- * Inspection by 3 HoDs

- * PCME Approval

- * PFA Concurrence

- * Concurrence of Finance of

Board

scrap Management

- * Identification

- * Rolling Stock

- * Involved in Accident

- * Can be processed for

Condemnation

- * Only after

- * Enquiry done by CRS if

any

- * Enquiry done by Police

if any

scrap Management

- * Identification (Contd...)
 - * Machinery and Plants
 - * Identification of M&Ps
 - * Overage – Beyond Codal Life
 - * Underage
 - * Beyond Economic Repair
 - * Survey by Standing Survey Committee
 - * Nominated by
- Division/Workshop/HQ

scrap Management

- * Identification (Contd...)

- * Machinery and Plants

- * Authority to approve Condemnation

- * Overage – JAG/HOD/PHOD

Without Finance Concurrence

- * Underage – Passed Codal Life >

75%

- * DRM/CWM

- * Without Finance

Concurrence

- * Underage – Passed Codal Life <

75%

scrap Management

- * Segregation of Scrap
- * For Getting Better Price because
- * Market Rate are high for
- * Non Ferrous
- * Rolling Item
- * Heavy Melting Scraps
- * Schedule of Scrap
- * 98 Group
- *
- *

scrap Management

- * Segregation of Scrap
- * Rails and Fittings
 - * Lot Formation by
 - * Stacking of Rails on Site
 - * Stacking of Fittings at P Way
- * Depot
- *

scrap Management

- * Segregation of Scrap

- * Depot Scrap

- * Sorting and Storage

- * Lot Formation by

- * Ferrous Scrap

- * Category wise

- * Non Ferrous Scrap

- * Lot Register

scrap Management

- * Segregation of Scrap

- * Depot Scrap

- * Lot Register

- * Lot Number PL No.

Description Approx Quantity

Book Rate Rate – Prev auction

Sanction Rate at which sold

Purchaser Total value auction rate

Remarks

- * Survey Sheet

scrap Management

- * Segregation of Scrap
- * Depot Scrap
- * Survey Sheet

scrap Management

- * Segregation of Scrap
- * Size of Lot
 - * Weight – 500 Tons
 - * Value – Rs. 1 Cr
 - *

scrap Management

- * Segregation of Scrap
- * Rolling Stock
- * Excluded Fittings – can be used in other
 - * WTA Air Brake Items etc
 - * In case of Accident involved Rolling Stocks
 - * WTA can be disposed (Letter 14-6-11)
 - * Certification of PCME that
 - * Retrieval not possible
 - * Approval of PCMM

scrap Management

- * Chief Materials Manager/Sales
- * Officer in charge of Entire Sale Activity in Zone
- * Co-ordination with
- * Various Department
- * Railway Board
- * Field Officers
- * For Day-to-Day Auction
- * Monitoring

scrap Management

- * Auction and Sale Activity
- * Guided by Chapter 24 of
- * Indian Railways Stores Code

scrap Management

- * Auction and Sale Activity
- * Rolling Stocks and M&P are sold
- * With Rider that Excluded Fittings
- * to be returned to Custodian
- * Excluded Fittings
- * Items could be used in other
- stock
- * Loco – Power Pack, WTA, TM etc,
- * Wagons – Doors, Air Brake
- Items, WTA
- * Coaches – WTA, Air Brake Items
- etc.

scrap Management

- * Auction and Sale Activity

- * Reutilization by Railways

- * Heavy Melting Scraps sent to

- * RWF Bengaluru

- * RWP Bela

- * Volume – 80000

Tons

- * Amount – Rs. 200 Cr

- *

scrap Management

- * Auction and Sale Activity

- * e-Auction

- * Factors –

- * Reserve Price Weight

- * Lot Size Category

- * Benefit

- * Better Transparency

- * Eliminate Direct Interface

- * Seller and Purchaser

- * Prevention of Cartel Formation

- * Mafias cannot prevent anybody

- * From Participating

scrap Management

- * Auction and Sale Activity

- * Reserve Price is fixed

- * Taking into Consideration

- * Last Sale Rate

- * Rate of Similar Scrap

- * in Adjoining Depot

- * Rate of Scrap

- * in Leading Newspaper

- * Metal Exchange

- * Liaison with Local

Manufacturer

scrap Management

- * Auction and Sale Activity

- * e-Auction Features

- * Done on Nominated Days IREPS

- * Purchaser has to register into

IREPS

- * For e-Auction

- * Fee - Rs. 10000/-

- * Class-III Digital Signature

- * Valid email id

- * Purchaser can bid Online for

- * Specific Lot

- * EMD - to be blocked as Lien

scrap Management

- * Auction and Sale Activity

- * e-Auction Features (Contd..)

- * Permitted to bid for Amount

- * 10 Times of Lien Amount

- * Can see the Bid of Others

without

- * Knowing the Name

- * System compares

- * the Highest Offered Bid

with

- * Reserved Price

- * If Offered Price is high

scrap Management

- * Auction and Sale Activity

- * e-Auction

- * After Acceptance of Bid

- * Purchaser is required to

- * Deposit Balance Sale Value

- * Within 10/15 days from

DoA

- * To take delivery

- * Within 40/50 days from

DoA

- * After Deposit of Balance Sale Value

- * Sale Release Order is issued

scrap Management

e-Auction

Auction Catalogue

Auction Catalogue Header

Depot/Railway Unit -	JAMALPUR DEPOT/EASTERN RLY	Auction Type -	Close Ended
Auction Catalogue No. -	051407EA01	Maximum Auto Extensions -	9 Times
Auction Start Date/Time -	07-07-14 11:00:00	Duration of Auto. Extension -	90 (Seconds) Each
Auction Close Date/Time -	07-07-14 14:05:00		

Category - Rolling Stock

Seq No	Lot No	Custodian / Location	Lot Qty	Start Date/Time	Close Date/Time	Minimum Increment (Rs.)
A/1	0540090714	SSE.Cond.[Wagon].ER.JMP / New Scrap Yard, Dhobighat, Jamalpur	26.00 Num bers	07-07-14 11:00:00	07-07-14 11:15:00	100.00
Material Description : Iron and Steel cut up parts of Condemned BOXN Wagons. [1] SE 129138, [2] SC 67820, [3] NR 97790, [4] NR 89556, [5] CR 106223, [6] CR 109054, [7] SC 68108, [8] NR 93119, [9] ER 42350, [10] ER 46857, [11] NR 87987, [12] NR 93165, [13] ER 43686, [14] ER 44949, [15] SE 101616, [16] ER 45733, [17] CR 111976, [18] SC 68899A, [19] NR 97637, [20] ER 42272, [21] SC 68938, [22] SE 101190, [23] SE 100171, [24] SC 69152, [25] SE 100792, [26] CR 000180. Condition- [1] Cutting allowed. [2] To be sold without all available excluded fittings as following- [Casnub Bogie Stock- BOXN]- Casnub Bogie, Wheel Sets with CTRB, Auxiliary Reservoir, Brake Cylinder, Dirt Collector, Draft Gear [HT], Coupler Body [HT], Yoke and Yoke Pin, Bolster Spring [All Types], Hand Brake Wheel, Slack Adjuster, Loaded Tie Rod, Control Rod, Coupling Support, Angle Cock, Hand Brake Screw With Nut, Distributor Valve, Main Pull Rod [long]						
A/2	0540110714	SSE.Cond.[Wagon].ER.JMP / New Scrap Yard, Dhobighat, Jamalpur	30.00 Num bers	07-07-14 11:00:00	07-07-14 11:20:00	100.00
Material Description : Condemned Casnub Bogie Frame-Trolley - 22W [Mark-I]. Condition - [1] Cutting allowed. [2] Bolster Spring and Wheel Sets with CTRB are excluded from sale.						
A/3	0540340114	SSE.Cond.[W].JMP / New Scrap Yard, Dhobighat, Jamalpur	2.00 0 Num bers	07-07-14 11:00:00	07-07-14 11:25:00	100.00

scrap Management

e-Auction

Auction Catalogue

Auction Catalogue Header

Depot/Railway Unit -	JAMALPUR DEPOT/EASTERN RLY	Auction Type -	Close Ended
Auction Catalogue No. -	051407EA01	Maximum Auto Extensions -	9 Times
Auction Start Date/Time -	07-07-14 11:00:00	Duration of Auto. Extension -	90 (Seconds) Each
Auction Close Date/Time -	07-07-14 14:05:00		
Category - Depot Ferrous Scrap			

Seq No	Lot No	Custodian / Location	Lot Qty	Start Date/Time	Close Date/Time	Minimum Increment (Rs.)
B/1	0500360614	CDMS.SSY.JMP / East Side of Bank Line Paya No . 2C to 4B	200.000 Metric Tonne	07-07-14 11:00:00	07-07-14 11:40:00	10.00
Material Description : PL No. 98050448, Scrap M.S. consisting of cut pieces of Box Wagon Body Cutting, Angle, Channel, Nut-Bolt and Wagon Door only.						
B/2	0500440714	CDMS.SSY.JMP / West Side of Sleeper Line in H WH End	150.000 Metric Tonne	07-07-14 11:00:00	07-07-14 11:45:00	10.00

Category - Depot Non-Ferrous Scrap

Seq No	Lot No	Custodian / Location	Lot Qty	Start Date/Time	Close Date/Time	Minimum Increment (Rs.)
C/1	0502250314	DMS.Sale Section.JMP / Godown - D of Sale Section	30490.000 Kilogram	07-07-14 11:00:00	07-07-14 12:50:00	0.25
Material Description : PL No. 98230013, Scrap Aluminium ACSR Wire [One Wire Ferrou]. Condition - Weighment will be done at SSY Weighbridge.						

scrap Management

* e-Auction

Auction Catalogue

Auction Catalogue Header

Depot/Railway Unit -	JAMALPUR DEPOT/EASTERN RLY		
Auction Catalogue No. -	051407EA01	Auction Type -	Close Ended
Auction Start Date/Time -	07-07-14 11:00:00	Maximum Auto Extensions -	9 Times
Auction Close Date/Time -	07-07-14 14:05:00	Duration of Auto. Extension -	90 (Seconds) Each

E/2	0550020414	SSE[G].Dsl. Shed.ER.JMP / Around Electrical Maintenance Section, Diesel Shed, Jamalpur	10.00 Metric Tonne	07-07-14 11:00:00	07-07-14 13:20:00	10.00
-----	------------	--	-----------------------	----------------------	----------------------	-------

Material Description : Scrap M.S. consisting of Turning and Boring. Condition- [1] As is where is basis. [2] Weighment will be done at Souh Stores Yard Weighbridge at Jamalpur Workshop.

E/3	0540020414	SSE.MTS.JMP / BST.HMRS	1.00 Numbers	07-07-14 11:00:00	07-07-14 13:25:00	100.00
-----	------------	------------------------	-----------------	----------------------	----------------------	--------

Material Description : Condemned Machine and Plant No. 9212 - EOT Crane. Condition - [1] As is where is basis. [2]

scrap Management

e-Auction

Auction Catalogue

Auction Catalogue Header

Depot/Railway Unit - JAMALPUR DEPOT/EASTERN RLY
Auction Catalogue No. - 051407EA01 **Auction Type** - Close Ended
Auction Start Date/Time - 07-07-14 11:00:00 **Maximum Auto Extensions** - 9 Times

Category - Depot Miscellaneous Scrap

Seq No	Lot No	Custodian / Location	Lot Qty	Start Date/Time	Close Date/Time	Minimum Increment (Rs.)
D/1	0502210314	CDMS.Oil Godown.JMP / Godown No. 1, Room No. C, Oil Godown	200.000 Numbers	07-07-14 11:00:00	07-07-14 13:10:00	10.00

Material Description : PL No. 98310641, Scrap Empty Grease Drum with Lid Cover, Cap. 182 Kg.

Category - Pway Scrap

Seq No	Lot No	Custodian / Location	Lot Qty	Start Date/Time	Close Date/Time	Minimum Increment (Rs.)
F/1	0551380314	SSE.PW.SBG / as per description	17.009 Metric Tonne	07-07-14 11:00:00	07-07-14 13:35:00	10.00

Material Description : Scrap Rail consisting of 88.5 LBS [SC] and 75 LBS [SC]. [1] Rail 88.5 LBS [SC] [PW Lot No. 36.R.SBG.13-14, Qty. 24 Nos., 263.28 Mtrs., 11.547 MT, Location - KM-254.3-5 near PPT Stn. Limit], [2] Rail 75 LBS [SC] [PW Lot No. 37.R.SBG.13-14, Qty. 22 Nos., 147.10 Mtrs., 5.462 MT, Location - SGK Siding near Buffer End]. Condition - [1] Cutting allowed over 12 feet long. [2] Delivery will be given as per linear measurement and sectional weight basis.

scrap Management

- * Auction and Sale Activity
- * Handing Over and Delivery of Scrap to Purchaser
 - * Purchaser take over Scrap after
 - * Presenting SRO to Custodian
 - * Weighment of Scrap before Delivery
 - * Scrap purchased in Weight
 - * Rails and Fittings
 - * Depot Scrap
 - * Rolling Stocks sold in Numbers
 - * Weighment not done

scrap Management

- * Auction and Sale Activity
- * Handing Over and Delivery of Scrap to Purchaser
 - * Delivery witnessed by Three Railway Officials
 - * Besides Purchaser
 - * Custodian
 - * Store Deptt – If Lot in Store Depot
 - * Executive Deptt otherwise
 - * Store Deptt
 - * Stock Verifier

scrap Management

- * Auction and Sale Activity
 - * Not Lifting of Scrap by Purchaser
 - * Within Time Limit (Letter 20-09-16)
 - * Delivery Time can be extended after Imposition of Ground Rent
 - * Can be extended without Ground Rent
 - * By GM/AGM
 - * If delay on part of Railways

scrap Management

- * Auction and Sale Activity
- * Disposal of Non-recyclable Scrap without
 - * Causing Any Environmental Hazard
 - * Battery, Waste Lube Oil, e-waste etc.
 - * Disposed of as per the guidelines
 - * Issued by the
 - * Ministry of E & F
- * Sale of such scrap restricted to only
- * Authorized/Certified Agencies
- * Return to be submitted to State Pollution Control Board

scrap Management

- * Auction and Sale Activity
- * Stock Verification
 - * By Stock Verifier
 - * Frequency – Once in a Year