PROJECT PRESENTATION PRESENTED BY

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INTRODUCTION

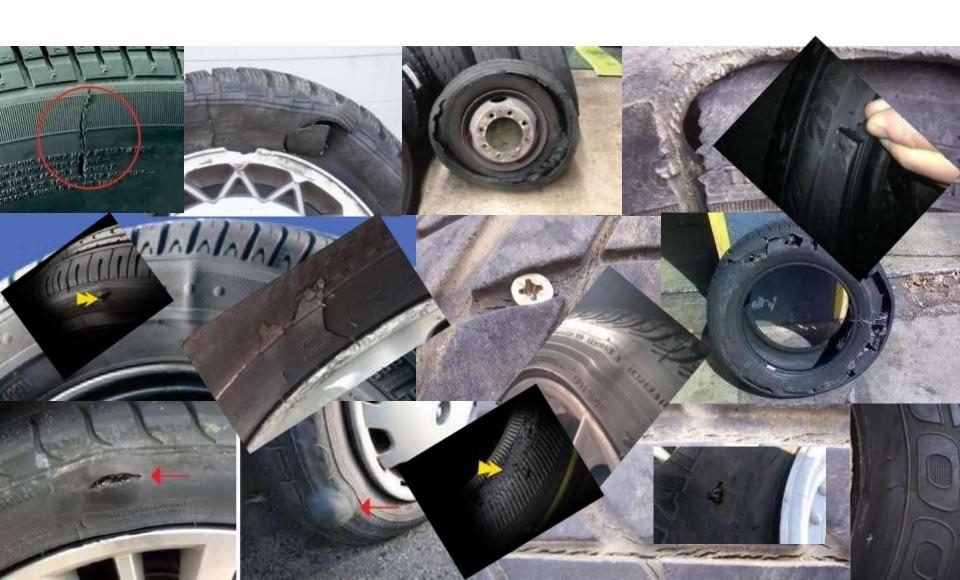
What are waste Tires?



The tires which are no longer suitable for use on vehicles due to Normal Wear or Irreparable due to Factory Damage or Operational Damage i.e. Internal, External, Side, Front & Shoulder are called Waste or Scrap tyres. The Waste tyres, also known as 'End-of-Life Tyres'("ELTs").

WASTE TIRES IRREPARABLE DAMAGES TO THE TIRES





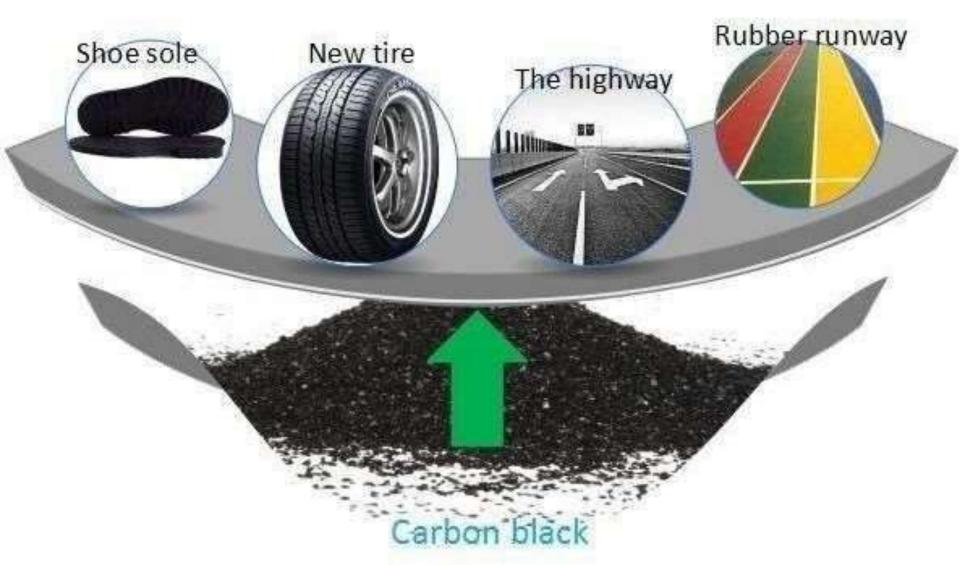


Waste Tires –Baled & Loose



PRODUCTS FROM WASTE TYRE PYROLYSIS AND WASTE TYRE CRUMB RUBBER





WATSE TYRE CRUMB RUBBER PRODUCTS





REDUCTION OF PARTICLE SIZE CRUMB RUBBER PRODUCTS





WASTE TYRE CRUMB RUBBER



Raw Material

For the Waste Tyres Pyrolysis plant the main raw materials are waste tyres and plastic scrap which can be available with little

efforts in any part of the world. Tyre Pyrolysis Plant is suitable for Waste tires(include all kinds of machine's tires, tire bead), waste rubber, Waste sole, inner tube, waste cable sheath, bicycle, motorcycle tires though recovery of pyro oil varies tyre to tyre and plastic to plastic.









Oil Content in Waste Tyres & Waste Plastics



Raw Material	Oil Content %	Raw Material	Oil Content %
Steel Wire Tyres	45-50	Paper-mill-waste Wet	15-20
Nylon Tyres	40	Paper-mill-waste Dry	60
Bicycle Tyres	35	House -Garbage	35-50
Off-Road Tyres	60	Plastic Cables	80
Truck Tyres	75	Plastic Bags	50
Poly Ethylene	95	Submarine Cables	75
Poly Propylene	90	Rubber Cables	35
Poly Styrene	90	Sole	30

Products of Pyrolysis Oil



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FINAL PRODUCTS FROM PYROLYSIS TIRE/PLASTIC OIL AND WASTE ENGINE OIL

-----diesel 80%-85%

The main product-diesel produced from pyrolysis tire/plastic oil (fuel oil) is widely used in tractor, truck, ship, etc heavy engine,.

Besides, the diesel also is a kind of good heating fuel which can be applied for boiler factory etc.







----asphalt 10%-13%

Besides diesel, you can also get about 10% asphalt from fuel oil, the asphalt is widely used in Waste proof, paving road, and other asphalt product, etc.

Products From Waste Tyres Pyrolysis





FINAL PRODUCTS FROM WASTE TIRES

-----Fuel oil 45%-50%

The main product-fuel oil produced from tires is widely used for industrial and commercial purposes.

With the heating value 10592.48 kcal/kg, this fuel oil is a kind of good heating fuel which can be applied for boiler factory, cement factory, glass factory and steel mill, etc.

This fuel oil also can be refined to diesel, used for diesel burners, generators and diese engines.





---- Carbon black 30%-35%

Carbon black can be directly sold to cement or brick factory mix with cement or brick for heavy color. Or pellet it used for heating, just like coal, it has the heating value of 7034 kcal/kg.

---- Steel wire 15%-18%

After pyrolysis process, the steel wire inside tires will be detached from tires and left into the reactor.

Valuable steel wires after pull out from the reactor can be directly sold to steel factory and scrap dealers.











Usage of carbon black produced from pyrolysis plant

- *Electric cable jacketing
- * Conveyor band
- * Carrier Bands
- * Hose and doormat
- * Black nylon bag
- * Rubber additive
- * Automotive spare parts
- * Heat isolation
- * Black colorant in rubber materials
- * Plastic pipes
- * Industrial rubber products
- * Fire fighting



Eitheror





Cement factory





Rubber products



RECOVERY OF PRODUCTS FROM PYROLISIS AND PYRO DISTILAATION



Products	% *‡	% Palash
Pyro Oil	45-50	35-40
Carbon Black	30-35	30-35
Steel Wire	12-15	8.0
Sync Gas	8-10	-
Diesel Oil from Pyro Oil Distillation*	80-85	-
Asphalt from Pyro Oil Distillation	10-13	-
Sync Gas from Distillation	2-3	-

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* Distillation Machine can refine waste oil/pyrolysis oil/engine oil and motor oil but not used cooking oil

Recovery and Quality of the products depends on

PROJECTIONS OF PRODUCTION:BLACK PYRO OIL, CARBON BLACK,STEEL AND CRUMB RUBBER

Item	Waste Tyres Tons/ Day	Waste Tyres Tons/ Annum	Finished Goods Tons/Day	W. Days/ Annum	Production Tons/ Annum
Pyro Black Oil	42	13,650	18.06	325	5,869.5
Carbon Black	-	2=	14.70	325	4777.5
Steel	-	4 	11.76*	325	3,822.00
Sync Gas)	# *	8.0	325	Used in Process
Crumb Rubber	42	13,650	30	325	9,750.00
TOTAL	84	27,300	73.275		23,814.00

FEASIBILITY OF PYROLISIS AND CRUMB RUBBER PLANT CAPACITY TONS WASTE TYRES/DAY OR 27000 TONS/ANNUM



Products	Recovery/Ton	Price Rs./ Ton	Revenue Rs./Ton	Production Tons/ Ann.	Revenue Rs./Ann.	Produc.Cost +Tyre Cost Rs.*	Revenue-Total Cost Rs.
Pyro Black Oil	0.430	32,000/-	13,760/-	5,869.50	18,78,24,000/-		*
Carbon Black	0.350	8,000/-	2,800/-	4777.50	3,82,20,000/-	**	-
Steel	0.140	12,000/-	1,680/-	1,911.00	2,29,32,000/-		=
Sync gas & loss	0.080	•	2		2	-	*
Total - Pyrolysis	1.000	427	18,240/-	12,792.00	24,89,76,000/-	7,65,62,300/-	17,24,13,700/-
Steel	0.140	12,000/-	1,680/-	1,911.00	2,29,32,000/-		
Fibrous Matter	0.140	*	*	*			
Crumb Rubber	0.70	25,000/-	17,500/-	9,555.00	23,88,75,000/-		*
Total - Crumb Rubber	1.000	25,000/-	19,180/-	11,602.00	26,18,07,000	7,54,70,300	18,63,36,700

Comparison Chart of Quotations-Waste Tires 30 TPD Pyrolysis & 15-20 TPD Refinery

Equipments	Capacity TPD	KW	Price in US \$
Shredding System, 50 mm Cut Pyrolysis System Oil Distillation System	30	112	1,30,000.00
	30	74	7,00,000.00
	15	50	1,50,000.00
Shredding & Pyrolysis System BJ-10 Distillation Plant x 2 YGM95-Q4 Euro. Type Grinding Sys. 350 Mesh	30	180	3,96,000.00
	20	70	1,57,000.00
	14-15	83	49,500.00
Shredding System, 50 mm Cut Pyrolysis System Oil Distillation System	30	60	80,000.00
	30	35	5,70,000.00
	15	30	1,32,000.00
Crumb Rubber making System Pyrolysis System Oil Distillation with Purification (for colour and Odour Removal) System	30-36	210	98,800.00
	30	11	5, 38,400.00
	20	50	3,28,000.00

Production Cost/Ton of Raw Material

Products	Kwh & Water Rs/Ton	Maint. Cost Rs. Ton	Salary & Wages Rs/Ton	Labour & Wages Rs/Ton	Total Production Cost Rs./Ton	Tyres/Rs. / Ton	Tyres+ Production Cost Rs./Ton
Pyrolysis	620.00	100.00	132.00	50.00	902.00	5,000/-	5,902.00
Crumb Rubber*	540.00	100	132.00	50.00	822.00	5,000/-	5,822.00

Basis of Costing: Waste Tyres

Salary & Wages: Skilled men @ 1 in each shift = 3 @ Rs. 20,000/ month = Rs. 60,000/-

: Semiskilled @ 1 in each shift = 3 @ Rs. 15,000/ month = Rs. 45,000/-

: Clerk @ 1 in each shift = 3 @ Rs. 15,000/ month = Rs. 45,000/-

Total S & W: $= Rs. 1,50,000 \times 12 = 18,00,000$

Labour & Wages: Unskilled @ 2 in each shift = 6 @ Rs. 9,000/month = Rs. 54,000/-

Total L & W: = Rs. 54,000 x 12 = 6,48,000

Waste Tyres: Capacity @ 42 Tons/ Day: = 42 x 30 Days = Tons 1,260
Total Waste Tyres: Processing Target : = 42 x 325 Days = Tons 13,650

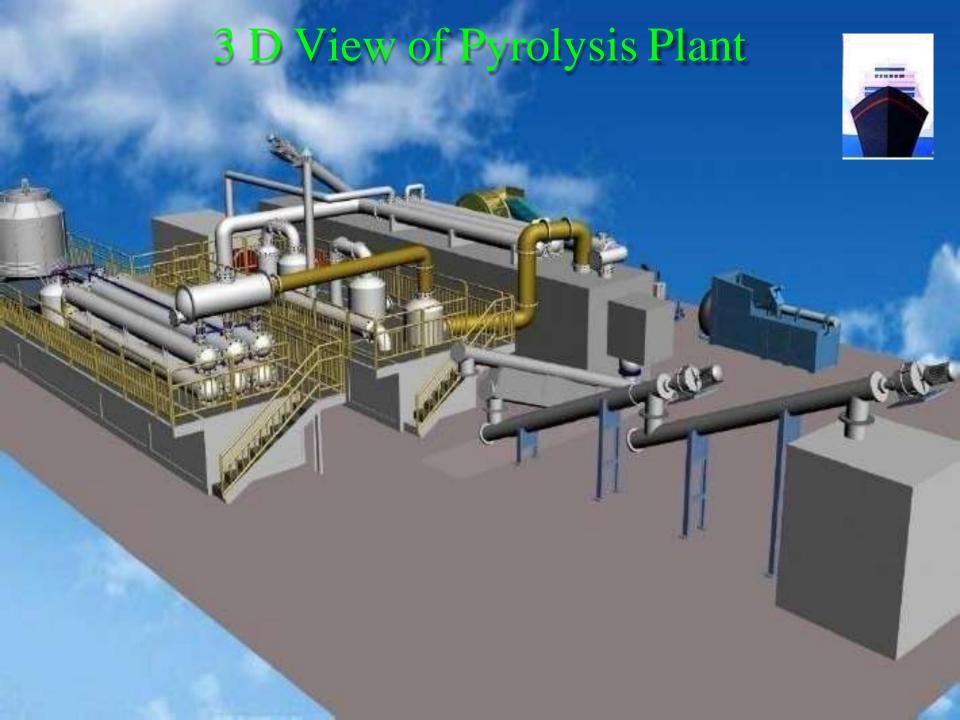
Tyres Price: Rs./Ton: = 5,000/- = Rs./Annum = 6,82,50,000/-

Total Production Cost : = Rs. 902 x 13,650 = Rs. 1,23,12,300/- Pyrolysis

Total Production Cost: = Rs. 822 x 13,650 = Rs. 1,12,20,300/- Crumb Rubber

Total Production Cost + Tyres Cost: (6,42,50,000 + 1, 23, 12,300) = Rs. 7,65,62,300 - PyrolysisTotal Production Cost + Tyres Cost: (6,42,50,000 + 1, 12, 20,300) = Rs. 7,54,70,300 - Crumb Rubber

^{*} For Crumb Rubber Manufacturing considered the Maintenance, capacity, S&W and L&W the same as for Pyrolysis



100 TPD Waste Tyres, Plastics, Engine Oil Distillation Plant





DIESEL OIL PURIFICATION PLANT





SWOT Analysis of Waste Tyres Processing Industry





STRENGTHS







WEAKNESSES





SWOT Analysis of Waste Tyres Processing Indust



SWOT Analysis of Waste Tyres Processing Industry



THREATS

ESTIMATED PROJECT COST

Land & Site Development		
1. (i) Land: 2 Hectare; 4-5 Acres	40.00	NA
(ii) Boundary Wall 6,00 M @ Rs. 5,500/M	33.00	NA
(iii) WBM Road 6,000 M ² @ Rs. 500/M ²	30.00	NA
SUB TOTAL	103.00	NA
2. Buildings 2,500 M ² @ Rs. 6,000/M ²	150.00	NA
SUB TOTAL	253.00	NA
3. Plant & Machinery		
Shredding, Continuous Pyrolysis, Oil Refinery &, Purification Packaging, Carbon Black Grinding Machine (Imported)	751.00	360.00
SUB TOTAL	751.00	360.00
4. General Utilities & Preoperative Expenses	50.00	100.00
SUB TOTAL	50.00	100.00
TOTAL	1157.00	440,00
Transportation @ 5% & Contingencies @ 5%	116.00	NA
GRAND TOTAL	1253.00	440.00



An Global Trading Company



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