Production of Footwear Insole Materials from Leather Shaving Dust.

Process	Production of Footwear	
	Insole Materials from Leather	
	Shaving Dust.	
Area	Footwear Industry.	
Uses	Used as an Insole in	
	Footwear making.	
Salient Features	It is made of Leather shaving dust- a tannery waste, suitable for the	
	use of manufacturing of insole and other internal parts of shoe. It is	
	soft, flexible, durable and porous.	
Scale of Development	The process is Standardized at Bench Scale.	
Major Raw Materials	Leather Shaving Dust, Latex, PVA, Reinforcement, Querbracho etc.	
Major Plant	Reaction vat, Suction Pump, Plate, Pressing Machine, etc.	
Equipment /		
Machinery		
Details of Specific	The Board is mainly used in footwear industry.	
Application		
Status of Development	The board has been developed. It is ready for Commercialization.	
Ecological /	The manufacturing process involves tanning and other chemical	
Environmental Impact	processes, so it needs Effluent Treatment Plant (ETP).	
(if any)		
Patenting Details	Patent Accepted	
Commercialization	Ready for Commercialization.	
Status		
Key Words	Shaving dust, Latex, Tanning, Querbracho etc.	

Product Developed By

Design and Development of Diabetic Footwear for Diabetic Patients

Process Area	A Process for Design and Development of Diabetic Footwear for Diabetic Patients Footwear Industry.	
Uses	Persons suffering from diabetes or diabetes related foot problem, who have neuropathy (loss of sensation), minor foot deformation and have developed minor foot complications earlier	
Salient Features	 PU and EVA sole with extra depth for more effective pressure distribution The extra depth sole with special tread for better grip and traction Specially designed insole bed and foam layer for added comfort Rigid counter to ensure limited joint mobility Specially designed upper with leather lining for comfortable wear Leather tanned with organic tanning material for enhanced 	
Scale of Development	perspiration absorption and better breathability property The process is standardized at bench scale	
Major Raw Materials	Soft upper leather, PU insole	
Major Plant Equipment/Machinery	Foot scanner, Clicking m/c, Sewing m/c, Sole press m/c, Skiving m/c	
Details of Specific	The process is applicable for the manufacturing of Diabetic Footwear	
Application	in industrial scale	
Status of Development	The process has been developed and is under review for verification	
Ecological/Environme	No harmful product is used in the manufacturing process and no	
ntal Impact	harmful product will generate from the manufacturing process	
Patent Details	Patent Filed	
Commercialization Status	Not yet ready for commercialization	
Techno-Economics	Available on demand	
Key Words	Diabetic shoes, Orthotics	

Product Developed By

Process for manufacturing of anti-wrinkle agent used in leather industry

Process	A Process for	
	manufacturing of anti-	
	wrinkle agent	
Area	Leather Industry. Anti-wrinkle Agent Product December 18 10 10 10 10 10 10 10 10 10 10 10 10 10	
Uses	The product is used for manufacturing of anti-wrinkle agent	
	in liming operation of leather manufacturing process	
Salient Features	Anti-wrinkle agent eliminates possibility of developing	
	wrinkles during leather manufacturing process thus offers	
	better quality leather with enhanced cutting value	
Scale of Development	The process is standardized at bench scale	
Major Raw Materials	Ethyl amine, Sulphuric acid	
Major Plant	Reaction Vessel (500 ltr.), Water softening m/c, Pumps	
Equipment/Machinery		
Details of Specific Application	The process is applied for the manufacturing of anti-wrinkle	
	agent in industrial scale	
Status of Development	The process has been developed and is ready for	
	commercialization	
Ecological/Environmental Impact	No harmful product is used in the manufacturing process	
	and no harmful product will generate from the process too.	
Patent Details	Patent right not obtained	
Commercialization Status	Ready for commercialization	
Techno-Economics	Available on demand	
Key Words	Leather wrinkle, Leather process, liming operation	

Product Developed By

Process for Manufacturing of Pickling Agent used in leather industry

Process	A Process for manufacturing of	
	pickling agent	
Area	Leather Industry.	PICKLING AGENT
Uses	The product is used for manufacturing of pickling agent in pickling operation of leather manufacturing process	
Salient Features	Pickling agent is a unique product which eliminates the use of	
	common salt and sulphuric acid in pickling operation of leather	
	manufacturing;	
	TDS in the discharged liquor of	of pickling and tanning operation of
	leather manufacturing process	is largely reduced
Scale of Development	The process is standardized at bench scale	
Major Raw Materials	Naphthalene, Sulphuric acid	
Major Plant	Reaction Vessel (500 ltr.), Water softening m/c, Pumps	
Equipment/Machinery		
Details of Specific	The process is applied for the manufacturing ofpickling agent in	
Application	industrial scale	
Status of Development	The process has been developed and is ready for commercialization	
Ecological/Environmental	No harmful product is used in the manufacturing process and no	
Impact	harmful product will generate from the process too	
Patent Details	Patent right not obtained	
Commercialization Status	Ready for commercialization	
Techno-Economics	Available on demand	
Key Words	Pickling, Leather process	

Product Developed By

Preparation of Tanning agent from Glutaraldehyde and its use in Leather Processing

	Leather 1 rocessing	
Process Area	Preparation of Tanning Agent from Glutaraldehyde and its use in Leather Processing. Leather Industry.	
	di Glutaraldehyde	
Uses	The skin is used as a tanning material to protect from putrefaction.	
Salient Features	Glutaraldehyde is used for making Chrome free Leather.	
Scale of Development	The process is standardized at bench scale.	
Major Raw Materials	Glucose-monohydrate, Glutaraldehyde (50%).	
Major Plant Equipment/Machinery	Reaction Vessel (500 ltr.), Water softening m/c, Pumps	
Details of Specific	The process is applied for the manufacturing of Tanning agent from	
Application	Glutaraldehyde in industrial scale.	
Status of Development	The process has been developed and is ready for commercialization	
Ecological/Environmental	No harmful product is used in the manufacturing process and no	
Impact	harmful product will generate from the process too.	
Commercialization Status	Ready for commercialization	
Project Implementation (estimated) Amount of money	2,30,00,000 / = (100 m tons / year)	
Space for Implementation of the project (approximate)	1700 sft	
Payback period	2.23 years.	

Product Developed By

Design and Innovation of Hit Reactivation for Footwear Industry.

Process Area	Design and enhance the various mechanical and electrical parts. Footwear Industries	8888 E-000
Description of raw	BP Sheet, Temperature	
materials	Controller, Relay	
	Contact, Lamp, Switch,	
	Cable etc.	
specialty	Economical, easy to use, e	asy to manufacture and maintain.
Estimated cost to	3-5 lakhs Taka	
implement the		
project		
Estimated space to	600-800 sq ft	
implement the		
project		
Main equipment	Sheet Bending Machine, V	Velding Machine, Drill Machine, Grinding
	Machine	
Number of Total	2-3 person	
Workers		
(Estimated)		
Payback period	1.5-2.0 years	
Fixed time of	5.0 years	
invented goods		
Cost per unit	16000 Taka	

Product Developed By