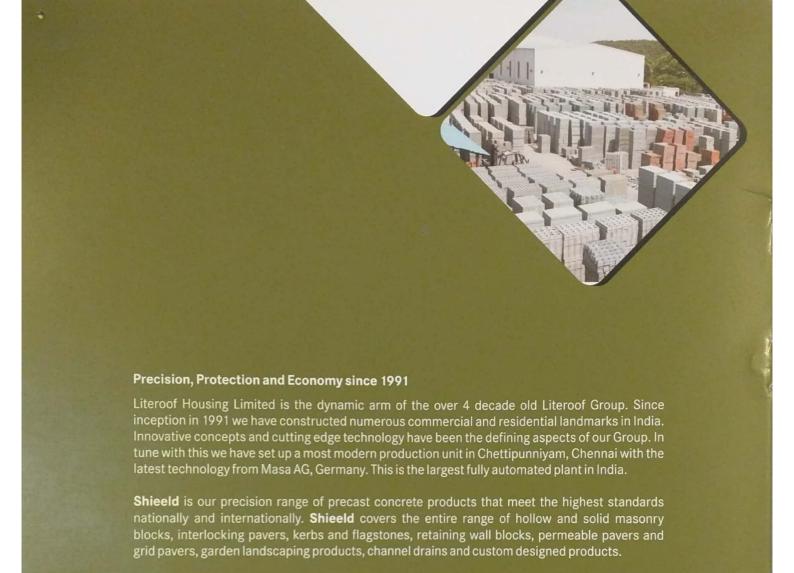
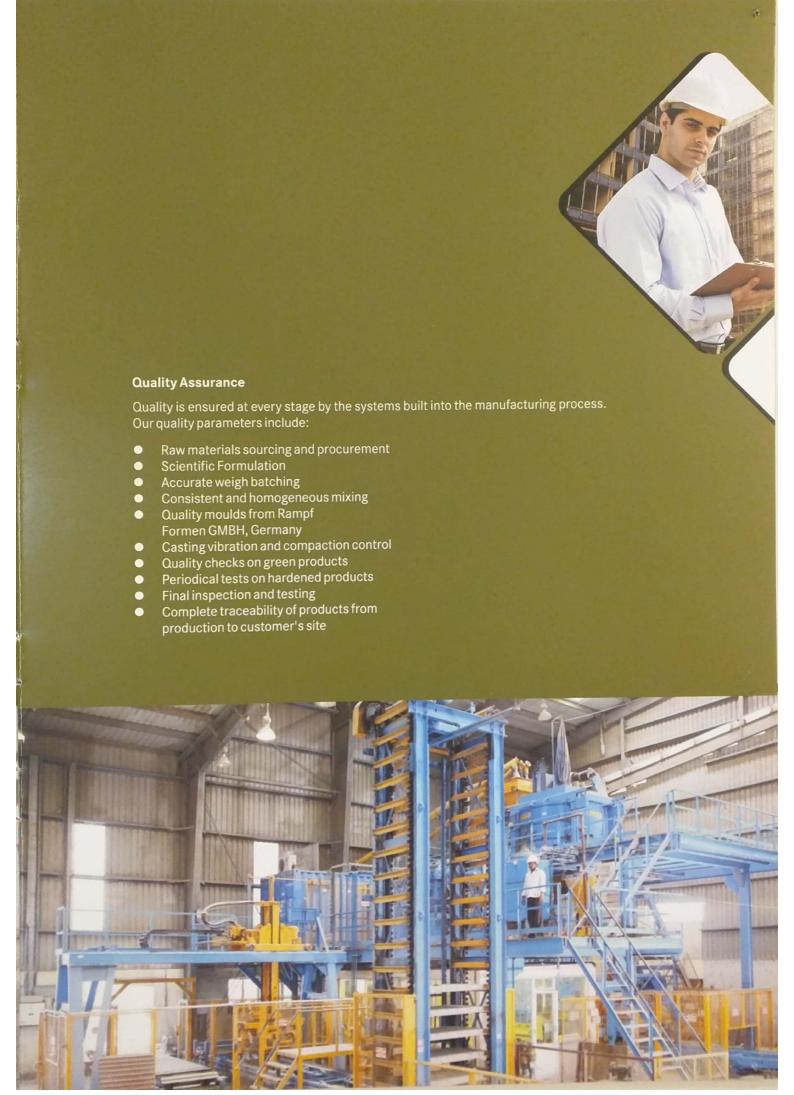


SHIEELD CONCRETE PRE ENGINEERED BLOCKS STRONG, DURABLE, LASTING.





Scanned with CamScanner



Scanned with CamScanner



Meeting Standards

Shieeld products are manufactured in compliance with IS, EN, BS, AS/NZ and ASTM standards. Constant updation keeps us abreast of the current standards. Our technical team will assist you in making the right choice in keeping with your project.

Technology platform

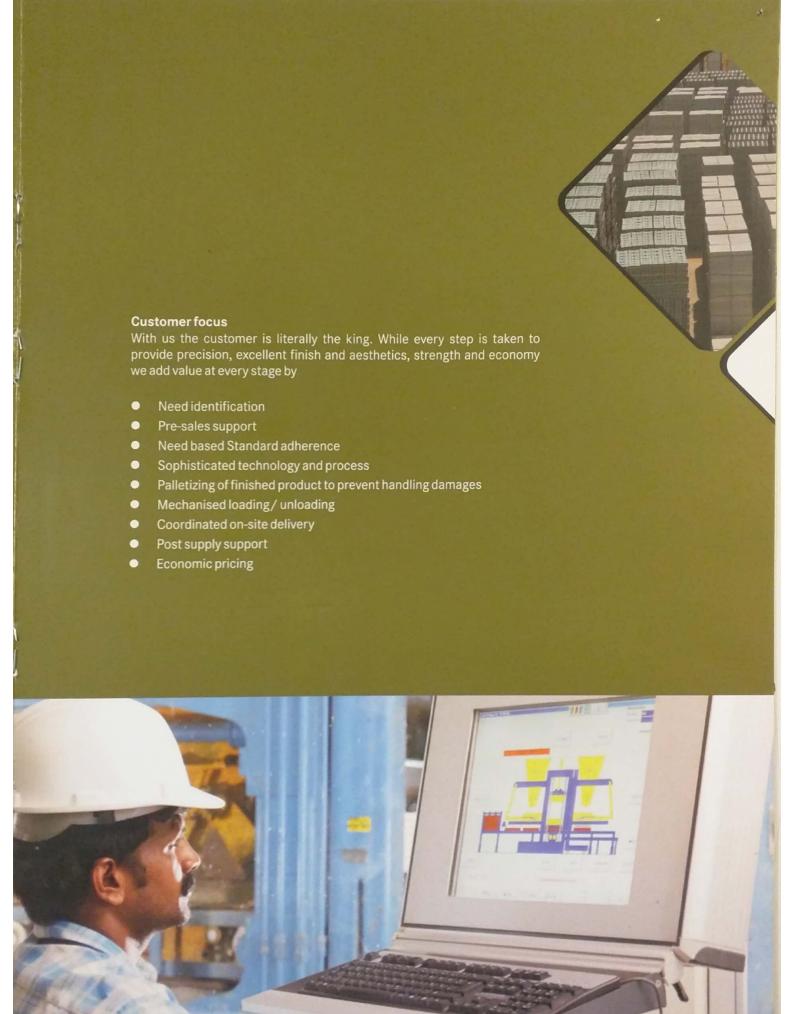
Shieeld is manufactured in collaboration with Masa AG Germany in the sophisticated R 9000 AF block plant. The fully automated precision processes are controlled by modern PLCs ensuring process accuracy, precise dimensions, high strength, excellent finish and uniform high quality. Different process parameters are used to produce a range of products.

Capacity

Product	Production Capacity Units per annum	Equivalent per annum
Hollow Blocks 390 x 190 x 190 mm	17.3 million	1.3 million m2 of walling
Interlocking Pavers 200 x 100 x 80 mm	69.1 million	1.5 million m2 of paving



Scanned with CamScanner





Towards Green Points for Green Building Certification

Shieeld range of products includes an eco-friendly variety. This is the first step of the environmentally conscious company. Total eco-friendly options are to be introduced soon to earn you valuable LEED (Leadership in Energy and Environmental Design) 'green points' in the construction of Green Buildings that may become the fixed norm in future.

Shieeld Products

Concrete Masonry Blocks

Hollow Blocks

Solid Blocks

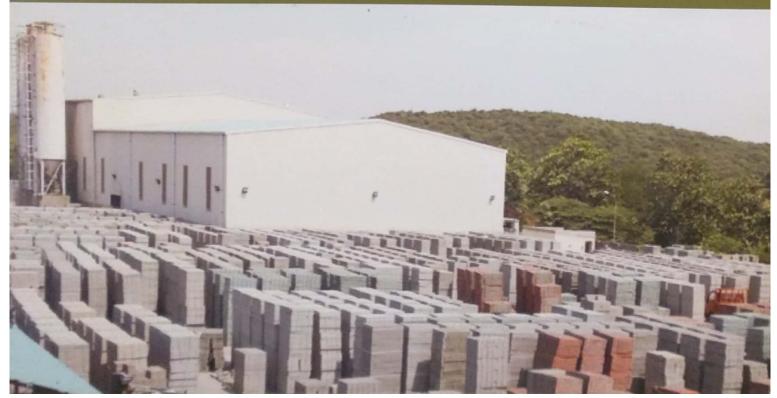
Interlocking Pavers

Without Face Mix
 With Face Mix

Custom Designed Products

Products to be introduced soon

- Precast kerbs & flagstones
- Permeable pavers & grid pavers
- Precast channel drains
- Segmental retaining wall blocks
- Landscaping products



Scanned with CamScanner



Interlocking Concrete Pavers



Interlocking Concrete Pavers

Ancinet Romans introduced paved carriage ways around 2000 years ago. They were so durable that some have been preserved till date. They have been in existence in some form since. Interlocking concrete pavers were introduced after World War II and with the advances in mass production pavers have taken over the world.

Interlocking concrete pavers are segmental. Formed of multiple small interlocking units held together through friction these pavers have excellent load bearing hard standing properties. The pavement behaves as one cohesive structural unit but embodies great flexibility in weight transmission making pavers the ideal and economic choice.

Heavy Duty Pavers

Shieeld also offers Heavy Duty Pavers that are robust enough to withstand great stress and wearing. They exhibit excellent heavy load bearing properties and are ideal for constructions like warehouses, airports, ports etc. that bear a lot of heavy duty traffic.

Face Mix

Face mix products are two layered but produced by a single process making them single units. The top layer of about 6-8 mm thickness is made of specially designed mixtures with varied colours rendering the pavers high abrasion and skid resistant. **Shieeld** Interlocking Concrete Pavers are available with or without face mix.

Applications

- Airports
- Ports
- Container Terminals
- Industrial Sites
- Warehouses
- Roads/ Junctions
- Driveways
- Petrol Stations
- Bus Terminals

- Commercial Complexes
- Residential Complexes
- Parking Lots
- Walkways
- Porches
- Patios
- Pool Decks
- Sidewalks
- Road Decks





Shieeld Interlocking Concrete Pavers

Shapes	GRADE	SIZE IN MM. Length x Width x Height
UNI - Regular	M 30/M35	222 x 109.50 x 60
UNI - Regular	M 40	222 x 109.50 x 80
UNI - Regular	M 50	222 x 109.5 x 100
I - SHAPED	M30/M35	198 x 163 x 60
Rectangular	M30/M35	200 x 100 x 60
Rectangular	M40	200 x 100 x 80
Hexagon	M 35	226.5 x 197 x 60

KERBSTONE		600x350x150
-----------	--	-------------

Shieeld Interlocking Concrete Pavers Advantage

Precision

- **Excellent Dimensional Tolerance**
- Range of Architectural Forms
- **Excellent Finish**
- **Even Textures**
- High Precision Moulds from Rampf Germany

Protection

- High Compressive Strength
- High Flexural Strength
- Durable
- High Abrasion Resistance
- High Weathering Resistance
- Low Water Absorption
- Low Permeability
- Negligible Efflorescence

Economy

- Ease and Speed of Construction
- Low Onsite Wastage
- Low Labour Cost
- Mechanized Laying For Large Scale Projects
 - Low Installation Cost
 - Quick Completion of Projects
- Early Opening to Traffic
 Low Maintenance Costs
 Ease of Maintenance of Subsurface Utilities
- Low Life Cycle Costs





Concrete Masonry Blocks



Concrete Masonry Blocks

Concrete masonry blocks have been in existence for centuries. Revolutionary changes in manufacturing technology and material sciences have made multi sized, shaped, coloured and textured blocks a reality. They are used as both structural and non-structural components and have been the preferred building blocks in the western world. They are fast replacing traditional bricks and other masonry products in India too.

Concrete Masonry Blocks can either be

- Hollow or Solid
- Load Bearing or Non-load Bearing
- Light weight or Dense

Shieeld concrete blocks are used in low and high rise buildings, for basements, exterior and interior walls and partitions.

Applications

- Shopping Malls, Multiplexes
- Institutional Building
- Farmhouses, Villas
- Hotels, Resorts
- Hospitals
- Factory Buildings
- Sports Stadia

- Multi functional Complexes such as IT Parks
- Independent Residences
- Residential Complexes
- Schools, Colleges
- Ports, Airports, Mass Transport Stations
- Warehouses

SHIEELD - CONCRETE PRE - ENGINEERED HOLLOW BLOCKS

SIZE IN MM

390 x 190 x 190

390 x 125 x 190

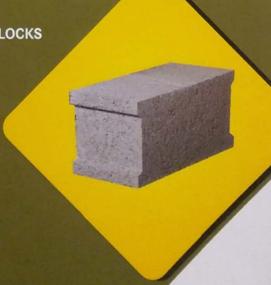
390 x 90 x 190

BOTTOM CLOSE TYPE

SIZE IN MM

390 x 190 x 190

400 x 100 x 200





SHIEELD - CONCRETE PRE - ENGINEERED SOLID BLOCKS

SIZE IN MM		
390 x 190 x 190		
390 x 140 x 190		
390 x 90 x 190		
400 x 200 x 200		

LINTEL BLOCK (U CHANNEL)

SIZE IN MM	
390 x 190 x 190	

Shieeld Concrete Blocks advantage

Precision

- Excellent Dimensional Tolerance
- Modular
- Range of Architectural Forms
- Excellent Finish
- Even Textures
- Variety of Structural Forms
- Control on Bonding Dimensions and Quality
- High Precision Moulds from Rampf Germany

Economy

- Ease and Speed of Construction
- Low Onsite Wastage
- Low Labour Cost
- Consumes Less Cement
- Low/ No Plastering Cost
- Low/ No Painting Cost
- Low Maintenance Cost
- Minimal Steel Reinforcement in case of Load Bearing Structure
- Additional Floor Space

Protection

- High Compressive Strength
- High Flexural Strength
- High Lateral Modulus of Rupture
- High Bond Strength
- Earthquake Resistant
- Durable
- Excellent Fire Rating
- Good Thermal Insulation
- Good Acoustic Insulation
- High Weathering Resistance
- Low Water Absorption
- Low Permeability
- Low Coefficient of Expansion
- Low Coefficient of Contraction
- Negligible Efflorescence
- High Abrasion Resistance
- Resistant to Salt Attack





A brand trusted by the renowned builders and architects



Also available:

ECC friendly FLY ASH Bricks

#35,7th Street, VSI Estate Phase II, Thiruvanmiyur, Chennai- 600 041 **Ph: 97899 79301, 97899 79303, 97899 79306, 98406 71243**E-mail: shieeld@literoof.in



WHY SHIEELD BRAND FLYASH BRICKS

Fly Ash Brick is a product of basic cement clinker materials i.e. FLY ASH, STONE DUST / SAND, LIME, GYPSUM and BONDING AGENT. The mix is so ideally worked out to produce bricks of higher strength, with consistency as well as uniformity. The manufacturing process is fully automatic with state of art technology. At Literoof we take utmost care in curing our products. Our products go through a specialised curing process called **Chamber curing** where hot air is circulated until the products reach the desired strength. Though a new age product introduced in the market, Fly Ash Bricks are very well accepted by the organized sectors in heavy industries, high rise buildings, large townships, colonies, etc. because of its unique features and merits.

DIMENSION: 210 mm x 110mm x 75 mm [LxWxH]

Advantages of using SHIEELD brand fly ash bricks:

Environmental Friendly | Green building concept | Used in facework due to uniformity and smoothness | Less usage of mortar & saving in manpower | Direct gypsum plastering can be done | Dimensional accuracy | Light weight | Fire resistance and sound insulation | Less usage of water







Comparing Fly ash brick with clay brick.

NORMAL CLAY BRICK	FLY ASH BRICK	
Varying colour as per soil	Uniform pleasing colour like cement	
Uneven shape as hand made	Uniform in shape and smooth in finish	
Loosly bonded	Densly compacted	
Heavier in weight	Lighter in weight	
Compressive strength is around 35 Kg/cm2	Compressive strength is around 100 Kg/cm2	
More porous	Less porous	
Thermal conductivity 1.25 – 1.35 W/m2 °C	Thermal conductivity 0.90-1.05 W/m2 °C	
Water absorption 20-25%	Water absorption 6-10%	

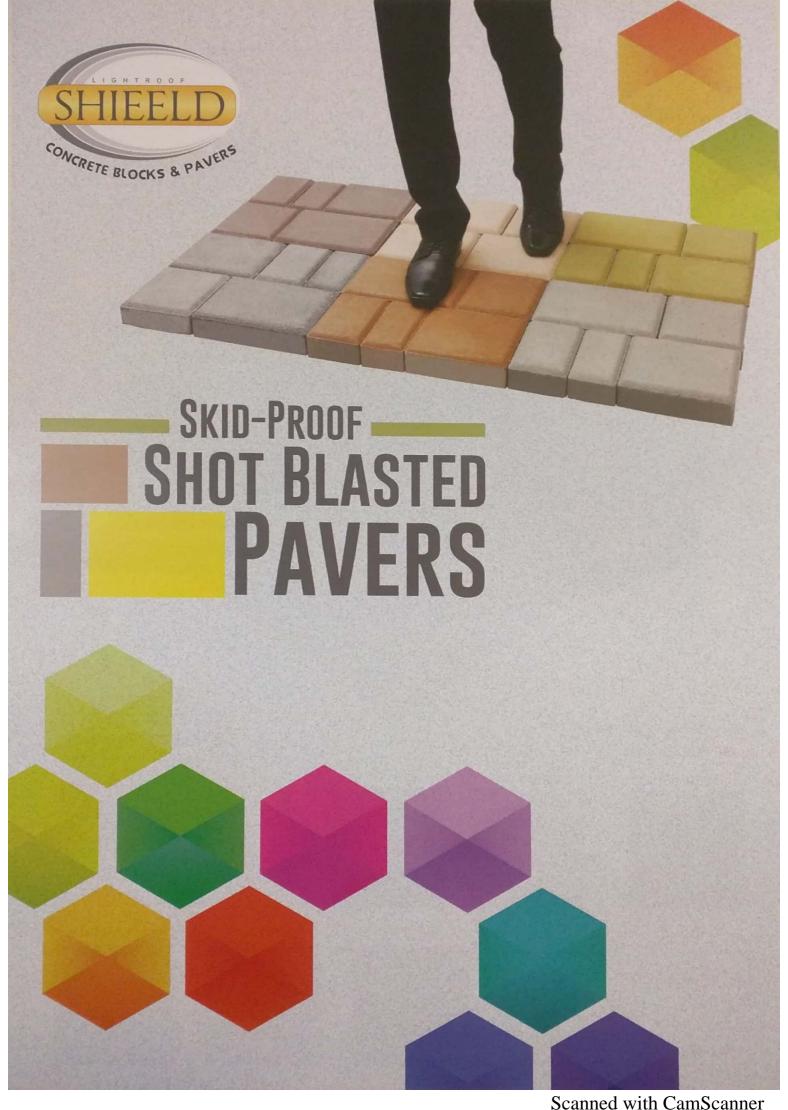


FOR SAMPLES AND FURTHER INFORMATION

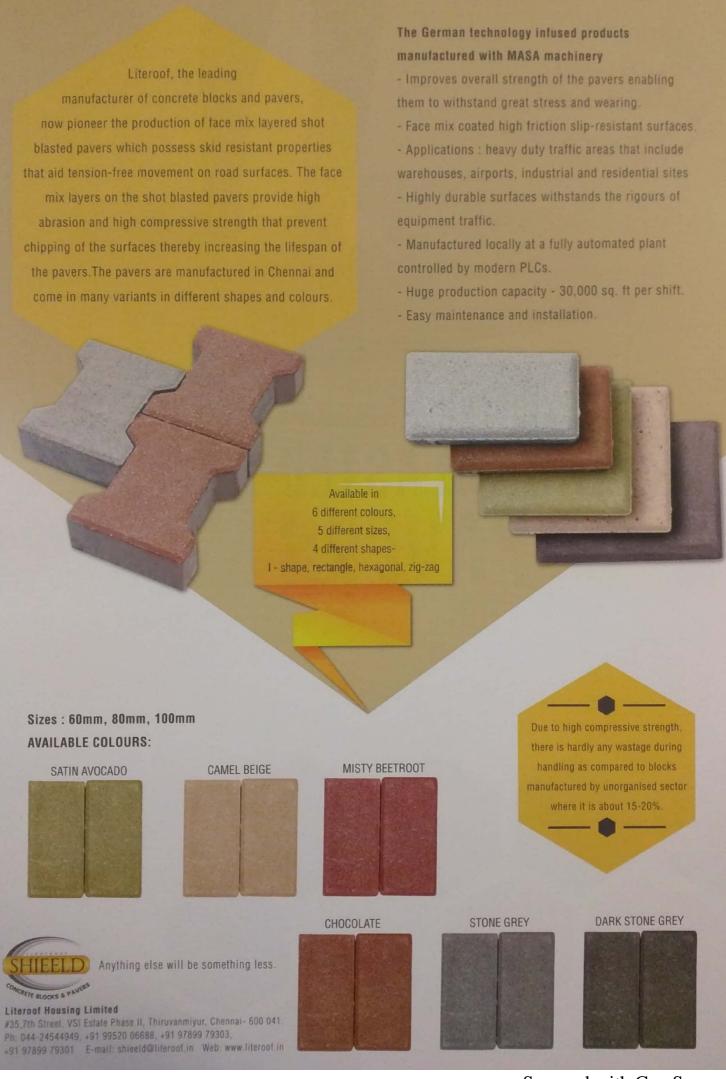
Literoof Housing Limited

"Literoof Centre"

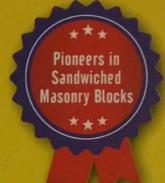
No. 35, 7th Street, VSI Estate, Phase II, Thiruvanmiyur, Chennai - 600 041, Ph: 044 2454 4949 / 50 Mob: 97899 79301, 97899 79303, 94440 33867, 94453 78230, 97899 79300 Email: info@literoof.in / shieeld@literoof.in www.shieeld.in



Scanned with CamScanner







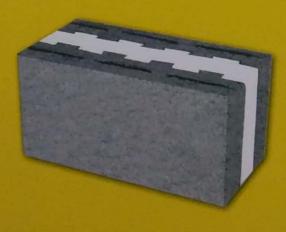
INTRODUCING THERMAL-SANDWICHED BLOCKS

Precision, Protection and Economy

Shieeld range of pre cast concrete products meets the highest standards nationally and internationally. Shieeld covers the entire range of hollow and solid masonry blocks, interlocking pavers, kerbs and retaining wall blocks, permeable pavers and custom designed products.

High Quality SHIEELD Products

Shieeld products are manufactured in a fully automated factory with the latest German Technology and built-in quality control systems which ensure process accuracy, precise dimensions, high strength, excellent finish and uniform high quality. Quality is ensured at every stage by the systems built into the manufacturing process.





Our sandwiched thermal blocks are ideal for external walls and have greater advantage when compared with normal hollow/solid blocks.

They are totally eco-friendly and will earn you 'green points' in the construction of Green Building which may become the fixed norm in future.

Concrete masonry block with intermediate polystyrene insulation



- Thermal insulated blocks are ideal for external walls.
- Prevents the heat from getting transferred to the wall inside the room.
- Provides excellent sound insulation and fire resistant.
- Reduces AC power consumption and saves energy.
- Aides 'Green Building' concept.

Precision

Excellent dimensional tolerance.
Excellent finish and texture.
Control on bonding dimensions and quality.
High precision moulds from Germany.

Protection

High compressive and flexural strength. High bind strength and earthquake resistant. Low water absorption and permeability. High weathering resistance.

Economy:

Ease and speed of construction.

Low on-site wastage and labour cost.

Consumes less cement.

Low/No plastering and painting cost.

Available in 8" 400mm * 200mm * 200mm with 60mm rigid polystyrene insert having density of 25/kg/m3





Literoof Housing Limited #35,7th Street, VSI Estate Phase II, Thiruvanmiyur, Chennai- 600 041. Ph: 044-24544949, +91 97899 79301/303/306/309 E-mail: shieeld@literoof.in Web: www.literoof.in

