

## These are Indicative and Budgetary Costs and not Total Costs

The following items are presently based on preliminary engineering assumptions, budgetary allowances, indicative vendor information and/or conceptual process requirements. They are **not to be interpreted as firm, fixed or all-inclusive project costs**. The Investor should provide adequate financial contingency for changes arising during feed trials, detailed engineering, vendor finalisation, statutory approvals, site development and execution.

| Item                                | DPR Basis / Present Assumption                                   | Present Cost Status | What May Change During Finalisation                                                                                 | Possible Additional Investor Cost                                                     | Responsibility for Finalisation      |
|-------------------------------------|------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------|
| <b>Land &amp; Plot Area</b>         | Preliminary allowance based on conceptual plant arrangement      | Excluded            | Actual storage requirement, vehicle movement, setbacks, utilities, future expansion and local development rules     | Additional land purchase/lease, development and external infrastructure               | Investor / Architect / Consultant    |
| <b>Buildings &amp; Covered Area</b> | Conceptual processing, storage, utility and administration areas | Excluded            | Final equipment GA, height requirements, maintenance clearances, warehouse inventory and statutory requirements     | Additional sheds, RCC structures, roofing, flooring, mezzanines and utility buildings | Civil Consultant / Equipment Vendors |
| <b>Civil &amp; Foundations</b>      | Normal foundations and general civil works assumed               | Excluded            | Soil bearing capacity, piling, vibration loads, pits, trenches, heavy-machine foundations and underground utilities | Piling, soil improvement, special foundations, retaining walls, trenches and drainage | Civil/Structural Consultant          |
| <b>MSW Feed Composition</b>         | Assumed mix of PE, PP, PET, PS, MLP                              | Excluded            | Polymer mix, moisture, dirt,                                                                                        | Additional sorting, washing, shredding,                                               | Investor / Consultant /              |

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|------------------------------------------|-------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------|
|                                          | and other mixed plastics in 2D and 3D forms                                   |                        | sand, paper, metals, glass, organics and other contaminants                                                | reject handling and utilities                                                | Equipment Vendor                |
| <b>Feed Size &amp; Oversize Material</b> | Material above approximately 270 mm assumed to require pre-shredding          | Included One only      | Actual incoming object sizes, rigidity, films, bulky items and foreign materials                           | Larger or additional pre-shredder, feeder, screens and protection systems    | Equipment Vendor                |
| <b>Dry Sorting System</b>                | Conceptual sorting by size, 2D/3D form and polymer type                       | Budgetary              | Number of sorting stages, manual QC, screens, air separation and optical/NIR sorters                       | Additional optical sorters, conveyors, platforms, QC cabins and reject lines | Sorting-System Vendor           |
| <b>Polymer Separation Performance</b>    | Indicative PE/PP/PET/PS/MLP segregation assumptions                           | As per India's average | Feed presentation, contamination, black plastics, multilayer structures, moisture and dirt                 | Additional sorting passes or downstream purification                         | Equipment Vendor after trials   |
| <b>Sensor Sorting Systems</b>            | Provision contemplated where required for polymer identification and recovery | Provisional            | Sensor technology, number of units, belt width, speed, cameras, NIR and AI/object-recognition requirements | Additional sensor sorters, compressors, electrical load and structures       | Sorting Vendor / Consultant     |
| <b>Baling System</b>                     | Baling considered for selected recovered/reject streams                       | Budgetary              | Number of polymers to be baled, bale size, storage philosophy and dispatch logistics                       | Additional balers, conveyors, wire/strapping and bale handling               | Vendor / Investor               |

| Item                                    | DPR Basis / Present Assumption                                                            | Present Cost Status | What May Change During Finalisation                                                                      | Possible Additional Investor Cost                                                       | Responsibility for Finalisation     |
|-----------------------------------------|-------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------|
| <b>Conveyors &amp; Interconnections</b> | Conceptual conveying included between major process stages                                | Provisional         | Final layout, elevations, equipment battery limits, distances and intermediate storage                   | Extra belt/screw/drag/pneumatic conveyors, chutes, structures and drives                | Equipment Vendors / Consultant      |
| <b>2D Flexible Plastic Shredding</b>    | Multi-stage size reduction assumed                                                        | Budgetary           | Film thickness, wrapping tendency, contamination, bulk density and required output size                  | Additional pre-shredder, wet granulator, anti-wrap systems and feeding equipment        | Recycling-Line Vendor               |
| <b>3D Rigid Plastic Shredding</b>       | Separate/appropriate size-reduction system assumed                                        | Budgetary           | Wall thickness, bulky components, metals and required flake size                                         | Larger shredder, granulator, metal protection and additional stage                      | Recycling-Line Vendor               |
| <b>Washing &amp; Cleaning System</b>    | Multi-stage washing, friction washing, hot washing/rinsing and density separation assumed | Provisional         | Actual contamination, adhesives, oils, food residues, dirt, labels, sand and product-quality requirement | Additional washing tanks, friction washers, hot-wash stage, chemical dosing and rinsing | Recycling-Line Vendor               |
| <b>Water Recycling / ETP</b>            | General provision to be developed during detailed engineering                             | Excluded            | Water balance, sludge load, COD/BOD, solids, chemical use and local discharge/reuse norms                | Larger ETP, clarification, filtration, sludge dewatering, RO/ZLD if required            | Environmental Consultant / Investor |
| <b>Drying System</b>                    | Mechanical and thermal drying assumed to meet extrusion-feed requirement                  | Budgetary           | Feed moisture, ambient humidity, film versus rigid material and final                                    | Additional dryers, hot-air systems, blowers, heaters and silos                          | Equipment Vendor                    |

| Item                              | DPR Basis / Present Assumption                                       | Present Cost Status | What May Change During Finalisation                                                                  | Possible Additional Investor Cost                                                 | Responsibility for Finalisation |
|-----------------------------------|----------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|
| <b>Two-Stage Extrusion</b>        | Two-stage extrusion with filtration and devolatilisation assumed     | Budgetary           | moisture specification<br>Polymer mix, contamination, MFI target, odour, volatiles and product grade | Larger extruders, additional melt filtration, vacuum systems and dosing equipment | Extrusion Vendor                |
| <b>Melt Filtration</b>            | Suitable continuous filtration considered                            | Provisional         | Contamination level, required micron rating, screen-change frequency and final application           | Higher-grade automatic/self-cleaning melt filter and screen systems               | Extrusion Vendor                |
| <b>Granulation / Pelletising</b>  | Appropriate pelletising/granulation system assumed                   | Budgetary           | Material rheology, throughput and pellet-quality requirement                                         | Water-ring/strand/underwater pelletising modifications and auxiliary systems      | Extrusion Vendor                |
| <b>Finished Product Conveying</b> | Conveying from pelletiser to storage/packing considered conceptually | Provisional         | Distance, cooling requirements, segregation of product grades and storage volumes                    | Additional pneumatic conveying, cooling, silos, blowers and cyclones              | Equipment Vendor                |
| <b>25 kg Bagging System</b>       | Finished pellets assumed to be packed in approximately 25 kg bags    | Budgetary           | Manual/semi-automatic/automatic weighing, sealing, stitching and palletisation requirements          | Automatic bagging, palletiser, stretch wrapper and printing system                | Investor / Packaging Vendor     |
| <b>Electrical Connected Load</b>  | Preliminary connected-load allowance only                            | Not firm            | Final motor list, heater loads, compressors, dryers, ETP and redundancy                              | Larger transformer, HT connection, panels, cabling, APFC and substation           | Electrical Consultant / Vendors |

| Item                             | DPR Basis / Present Assumption                                     | Present Cost Status | What May Change During Finalisation                                                           | Possible Additional Investor Cost                                             | Responsibility for Finalisation   |
|----------------------------------|--------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|
| <b>DG / Backup Power</b>         | Not necessarily included unless stated                             | Excluded            | Required critical-load backup and local power reliability                                     | DG set, synchronisation panel, fuel system and acoustic enclosure             | Investor                          |
| <b>Process Water Supply</b>      | Indicative consumption based on conceptual washing line            | Provisional         | Feed contamination, recycling rate and water-treatment philosophy                             | Borewell/source development, tanks, pumps, treatment and pipelines            | Investor / Utility Consultant     |
| <b>Heating Utility</b>           | Electrical/hot-water/steam/thermic-fluid option not finally frozen | Provisional         | Vendor design and hot-wash/extrusion heating philosophy                                       | Boiler, thermic-fluid heater, piping, chimney, fuel storage and approvals     | Investor / Vendor                 |
| <b>Cooling Utility</b>           | General process cooling considered                                 | Provisional         | Pelletising, extruder and ambient-temperature requirements                                    | Cooling tower, chiller, pumps, tanks and piping                               | Utility Consultant / Vendor       |
| <b>Compressed Air</b>            | Indicative requirement for sorting and controls                    | Provisional         | Number of optical sorters, pneumatic actuators and instrumentation                            | Larger compressor, air dryer, receiver and piping                             | Equipment Vendor / Investor       |
| <b>Fire &amp; Safety Systems</b> | General safety provisions assumed                                  | Excluded            | Fire load, local fire authority requirements, storage arrangement and building classification | Hydrant/sprinkler systems, tanks, pumps, detection and alarm systems          | Fire Consultant / Investor        |
| <b>Dust / Odour Control</b>      | To be provided where process conditions require                    | Excluded            | Feed quality, screening, shredding and local pollution-control requirements                   | Bag filters, cyclones, scrubbers, ducts, extraction systems and odour control | Environmental Consultant / Vendor |

| Item                                              | DPR Basis / Present Assumption          | Present Cost Status | What May Change During Finalisation                                                                      | Possible Additional Investor Cost                                         | Responsibility for Finalisation |
|---------------------------------------------------|-----------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------|
| <b>Laboratory &amp; Quality Control</b>           | Basic QC requirement assumed            | Provisional         | Customer specifications for MFI, density, moisture, ash, contamination, colour and mechanical properties | Laboratory instruments, testing equipment and trained manpower            | Investor / Consultant           |
| <b>Forklifts / Loaders / Material Handling</b>    | General handling assumed                | Excluded            | Bale movement, bag movement, feeding and finished-goods dispatch philosophy                              | Forklifts, loaders, pallet trucks, attachments and charging systems       | Investor                        |
| <b>Platforms, Stairs &amp; Maintenance Access</b> | Conceptual allowances only              | Provisional         | Final equipment elevations, maintenance envelopes and access requirements                                | Additional structural steel, platforms, ladders, stairs and lifting beams | Vendor / Civil Consultant       |
| <b>Cranes / Hoists / Lifting Systems</b>          | Not included unless expressly specified | Excluded            | Maintenance requirements for shredders, extruders, gearboxes and motors                                  | EOT crane, monorail, chain blocks and structural strengthening            | Investor / Vendor               |
| <b>Instrumentation / PLC / SCADA</b>              | Standard machine automation assumed     | Excluded            | Integration philosophy, centralized SCADA, reporting, traceability and remote monitoring                 | Additional PLC panels, SCADA, servers, sensors and networking             | Automation Vendor / Investor    |
| <b>Statutory &amp; Environmental Compliance</b>   | General compliance assumed              | Excluded            | Pollution-control consent, fire approvals, factory                                                       | Consultancy, systems, equipment modifications,                            | Investor                        |

| Item                                      | DPR Basis / Present Assumption                                   | Present Cost Status | What May Change During Finalisation                                                                        | Possible Additional Investor Cost                                                        | Responsibility for Finalisation |
|-------------------------------------------|------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|
| <b>Freight, Taxes, Duties &amp; Forex</b> | Included only where expressly stated in CAPEX                    | Variable            | rules and local statutory conditions<br>Vendor origin, exchange rate, duties, GST, logistics and insurance | fees and compliance works<br>Difference between budget assumption and actual landed cost | Investor                        |
| <b>Installation &amp; Commissioning</b>   | Preliminary allowance or vendor supervision basis                | Provisional         | Site duration, manpower, cranes, tools, accommodation and trial duration                                   | Additional erection, commissioning, travel and supervision cost                          | Investor / Vendor               |
| <b>Spares &amp; Consumables</b>           | Initial allowance only where stated                              | Provisional         | Knife life, screens, filters, bearings, seals, chemicals and operating intensity                           | Additional commissioning spares, operating spares and consumables                        | Investor / Vendor               |
| <b>Performance Trials</b>                 | Representative feed trial recommended before final design freeze | Not fully costed    | Trial quantity, logistics, vendor facility and testing requirements                                        | Freight, trial charges, material preparation and laboratory analysis                     | Investor / Vendor / Consultant  |
| <b>Product Yield &amp; Quality</b>        | Indicative assumptions used for financial modelling              | Depends on Inputs   | Actual feed quality, sorting efficiency, washing losses, contaminants and operating control                | Lower production, higher rejects, additional processing or lower sale value              | Investor / Operations           |
| <b>Selling Price of Recycled Product</b>  | Market-linked assumption                                         | Variable            | Polymer grade, colour, purity, MFI, market demand and crude/virgin polymer pricing                         | Reduced revenue compared with DPR assumption                                             | Investor                        |
| <b>Operating Cost</b>                     | Based on assumed throughput, manpower and utility rates          | Indicative          | Power tariff, water, chemicals, labour, maintenance, reject                                                | Higher OPEX than DPR model                                                               | Investor                        |

| Item                                 | DPR Basis / Present Assumption         | Present Cost Status | What May Change During Finalisation                                                         | Possible Additional Investor Cost                              | Responsibility for Finalisation |
|--------------------------------------|----------------------------------------|---------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| <b>Future Expansion / Redundancy</b> | Not included unless specifically shown | Excluded            | disposal and downtime<br>Additional line capacity, standby equipment or expansion provision | Additional machinery, land, utilities and civil infrastructure | Investor                        |

### Investor Advisory

The **Base Project Cost should not be treated as the maximum financial commitment for the project**. Until representative MSW plastic feedstock has been characterised, process trials completed, equipment vendors selected, General Arrangement drawings frozen, utility requirements confirmed and statutory conditions established, several project components will remain provisional.

It is therefore recommended that the Investor maintain:

- an appropriate **project contingency over the estimated base CAPEX**;
- separate **provisional sums for utilities, civil works, environmental systems and interconnecting infrastructure**;
- additional financing headroom for **site-specific and statutory requirements**; and
- adequate working capital for commissioning, feedstock inventory, finished-goods inventory, consumables and initial operating stabilisation.

Any cost item that is not expressly identified as included in the final approved scope and vendor battery limits should be considered **potential additional expenditure to the Investor**.

### Consultant Remarks:

The Consultant's DPR cost estimates, equipment configuration, space calculations, utility estimates, recovery assumptions and financial projections are prepared for project evaluation based on information available at the time of preparation. Final project requirements may vary following feedstock testing, vendor engineering, site

investigation, detailed design, statutory review, market conditions, political changes, policy change, other natural calamities, war, economic sanctions and any unexpected things.

Accordingly, the final investment cost should be established only after reconciliation of **approved process design + vendor quotations + civil/structural design + utility schedules + statutory requirements + project execution costs**.