Prepared By:



SERVICES PVT. LTD SURAJ BHAWAN, L-83, LAJPAT NAGAR-II, NEW DELHI-110024, INDIA

www.sapientservices.com

DETAILED PROJECT REPORT

IKIO LIGHTING LIMITED

Abstract

IKIO Lighting Limited is intending to commission the project through its wholly owned subsidiary, IKIO Solution Private Limited, to set up a new facility at Noida, Uttar Pradesh to undertake the following activities: 1.

Manufacturing of Solar Panel for Recreational Vehicles.; 2. Manufacturing of LED Fixtures.; 3. ABS Pipes & Accessories and 4. LED Lights for Recreational Vehicles.

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Burry Blackers, L. S.J. Lappet Supple B. New Della: 199029 finites
 Telefact, 0.1.1.2983-3234 / B. C. S. mail: enflutions approximations com-

SERVICES PROVIDED ON PAN INDIA BASIS



Table of Contents

1.	EXECUTIVE SUMMARY	4
2.	INTRODUCTION	7
3.	PROJECT DETAILS	9
4.	TOTAL ESTIMATED COST	28
5	GENERAL ASSUMPTIONS AND LIMITING CONDITIONS	37

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Song Olomon, L. 83, Lagon Sagar R, Sew Delhi - 110429 Indio Triefan, 011-2041.1234 / 5 / 6 E-mail - militarion (sapont services com

SERVICES PROVIDED ON PAN INDIA BASIS www.sapientservices.com



Ref. No

: SSPL/DPR/230556

Date

: 17.05.2023

BRIEF OVERVIEW

Name of the Company	IKIO Lighting Limited IKIO Lighting Limited is intending to commission the project through its wholly owned subsidiary, IKIO Solution Private Limited
Year of Incorporation	2016
CIN Number	U31401DL2016PLC292884
Constitution	Company Limited by Shares
Nature of Business	Manufacturer
Registered Office	411, Arunachal Building 19 Barakhamba Road, Connaught Place, Central Delhi, Delhi – 110001, India
Directors	Mr. Hardeep Singh Mrs. Surmeet Singh Mr. Sanjeet Singh Mr. Chandra Shankar Verma Mr. Kishor Kumar Sansi Mr. Rohit Singhal
Details of the Project	IKIO Solutions Private Limited the Wholly owned subsidiary of IKIO Lighting Limited proposes to set up a new facility at Noida, Uttar Pradesh to undertake the following activities: 1. Manufacturing of Solar Panel for Recreational Vehicles. 2. Manufacturing of LED Fixtures. 3. ABS Pipes & Accessories and 4. LED Lights for Recreational Vehicles. (Collectively referred to as the Project)
Unit Location	Plot No 10, Sector 156, Noida, Gautam Budh Nagar, Ultar Pradesh - 201301

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Stray Bluman, U.S.S. Liepet Kagar & New Dellie and 024 highs. Tabelon, U.S. 296 (1224); N. O. B. mod. subspicious expression on some Replatered V



Scope of Work

The financial position and related information of the Company. The present position of infrastructure available, the study of specifications and quantum of utilities, assessment of required area size, civil works, interiors, electrical, furniture and fittings, and other infrastructure, Profile of Manpower of Company available and their skill sets, Study of technology used, the related technical/commercial and financial aspects of the proposal, etc.

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Story Bhoward, 1, 83, Leopat Nagar II, Siew Deinz, 199624 India. Tolelas, 031, 20013234 / 5 / 6 K. mail. mahabung expentservices.com

SERVICES PROVIDED ON PAN INDIA BASIS
www.sapientservices.com



EXECUTIVE SUMMARY

1.1. Sapient Services Private Limited (hereinafter referred to as "M/s. Sapient) has prepared Detailed Project Report ("DPR") for IKIO Lighting Limited having its registered office located at 411, Arunachal Building, 19 Barakhamba Road, Connaught Place, New Delhi – 110001, India for the proposed Project through its wholly owned subsidiary company IKIO Solutions Private Limited.

1.2. Appointing Authority

We have been appointed by IKIO Lighting Limited, to prepare 'Detailed Project Report ("DPR")', to do the technical & commercial feasibility and financial requirement of the project for its wholly owned subsidiary IKIO Solutions Private Limited.

1.3. Purpose: -

The purpose of this exercise is to prepare the Detailed Project Report of IKIO Lighting Limited. With reference to the Engagement letter dated 24th June 2022, we have prepared the detailed project report dated [26th] September 2022 prepared for IKIO Lighting Limited.

As requested by the Company, we are reissuing this detailed project report that has been updated and is now being dated 14th April 2023 ("DPR"). The DPR is prepared for the onward submission to the book running lead manager for the purpose of inclusion as part of the 'Object of the Offer' section in the updated draft red herring prospectus (the "UDRHP") / red herring prospectus (the "RHP") / Prospectus prepared by the Company in connection with its proposed initial public offer ("IPO") in terms of the requirements of:

1.3.1. Section 26 of Part I of Chapter III of the Companies' Act, 2013 Act



Bystered Va

Service



- 1.3.2 Relevant provisions of the Securities and Exchange Board of India (Issue of Capital and Disclosure Requirements) Regulations, 2018, issued by the Securities and Exchange Board of India, as amended.
- Sapient has inspected the Unit location.
- 1.5. This DPR does not include estimation of profitability, return on investment/internal rate of return at different investment levels and assessment of business value.
- 1.6. This executive summary forms part of and is not independent from the complete report. Particular attention is drawn to the assumption, qualification and disclaimers included in the report.
- 1.7. In the DPR, no allowances are made for any liability which may arise for payment of Corporation Tax or Capital Gains Tax, whether existing or which may arise, deemed or otherwise. No allowances are made in respect of capital or interest accrued thereon or for capital-based Government grants or potentially receivable on the date of this DPR.
- 1.8. This exercise is undertaken in light of existing infrastructure as of the date of 16th May 2023. Detailed assessment methodology has been provided in subsequent section of this DPR.
- 1.9. Standard of Value | Techno Economic Viability

Techno Economic Viability (TEV) study of a project encompasses the evaluation of a project for evaluating the technical and financial intermation about the project, with relevant data about its technological feasibility and

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)



economic viability, into one or a few criteria on the basis of which the project is recommended for selection, modification or rejection.

1.10. Use of Report

This report has been prepared at the instance of IKIO Lighting Limited for the purpose of the initial public offering of equity shares of INR 10/- each ("IPO").

1.11. Methodology uses for Report

- · Verify the List of machineries.
- · Based on the market search
- We've also undertaken the analysis of other factors as well such as government approvals required for such Projects, utilities etc.
- Information obtained through various channels of communication.

1.12. Statutory Regulation

Our DPR is prepared on the basis that the Company has complied with all the relevant statutory regulations. It is assumed that the Company has been or will be issued with the required certificate/license/operation by the competent authority.

FOR SAPIENT SERVICES PVT. LTD.

(Authorized Signatory)



2. INTRODUCTION

2.1. Company Overview

IKIO Lighting Limited a company (erstwhile was a private company incorporated on 21 March 2016) and converted into a public Limited company on April 18, 2022. It is registered at Registrar of Companies, National Capital Territory of Delhi & Haryana, at New Delhi. Its authorized share capital is INR 1,000,000,000 and its paid-up share capital is INR 650,000,000.

The Company is focused on sustainability and providing low energy LED products to help India meet its sustainability goals. IKIO LED lighting offering includes lighting, fittings, fixtures, accessories, and components including LED strip lights, refrigeration lights. The Company also manufactures alternating current ("AC") light strips, moulding, and fan regulators. In addition, it also manufactures an alternative to polyvinyl chloride ("PVC") piping called Acrylonitrile Butadiene Styrene ("ABS") piping & its accessories.

The Company manufactures and assemble a wide array of products and serves as original design manufacturers ("ODM") to its customers. As ODMs, in addition to manufacturing, Company assists in the conceptualizing and designing their products which are then marketed by its customers under their brands.

The Company is planning to expand its business through expansion by construction of new facility by its wholly owned subsidiary, IKIO Solutions Private Limited, for carrying out electronic manufacturing services. Some new products being developed by its R&D team that they intend to add to customer offering includes solar power panels & systems for recreational Vehicles, ABS Pipes & accessories, LED Fixtures and LED Lights for

recreational Vehicles.

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Repistered VI



SATELLITE VIEW OF SUBJECT LOCATION (28.45691701079176, 77.44744269965791)



2.2. Appointment

Sapient is pleased to submit the Detailed Project Report (DPR) of IKIO Lighting Limited for their proposed project through IKIO Solutions Private Limited (Wholly owned subsidiary). The assessment has been carried out in accordance with the information received from client.

For SAPIENT SERVICES PUT. LTD.

(Authorized Signatory)



3. PROJECT DETAILS

3.1. IKIO Lighting Limited - Technical and Commercial Feasibility

The Company is planning to expand its business through the expansion by construction of new facility by its wholly owned subsidiary, IKIO Solutions Private Limited, to better serve existing customers, assist in better addressing the business requirements of large customers, and allow us to expand into new business verticals, in particular, to address the growing consumer of electronic manufacturing services for lights, rotary switch and electric switch, socket, ABS pipe and solar for recreational vehicles. Some new products being developed by its R&D team that they intend to add to customer offering includes solar power panels & systems for recreational Vehicles, ABS Pipes & accessories, LED Fixtures and LED Lights for recreational Vehicles.

3.2. PROPOSED PRODUCT MIX

3.2.1. SOLAR SYSTEM FOR RECREATIONAL VEHICLE

Solar system for recreational vehicles that use self-contained solar panels to power themselves from sunlight. Solar typically contain a rechargeable battery to help regulate and store the energy from the solar panels.

RV solar panels work like a regular home solar system - the solar panels convert sunlight into electricity. RVs have batteries within them that are able to power lights and small appliances, but they won't last very long. For using things like microwave and TV, we required an external power source. That's where RV solar panels come in.

A recreational vehicle, often abbreviated as RV, is a motor vehicle or trailer that includes living quarters designed for accommodation. Types of RVs

Pistered Va



include motorhomes, campervans, coaches, caravans (also known as travel trailers and camper trailers), fifth-wheel trailers, popup campers, and truck campers. RVs are most commonly used for living quarters while traveling. People may choose to take a road trip in their RV and use the RV to sleep in, rather than a hotel room. Typical amenities of an RV include a kitchen, a bathroom, and one or more sleeping facilities. RVs can range from utilitarian – containing only sleeping quarters and basic cooking facilities – to luxurious, with features like air conditioning (AC), water heaters, televisions and satellite receivers, and quartz countertops, for example.

Although the most common usage of an RV is as temporary accommodation when traveling, some people use an RV as their main residence.

RV solar panel system consists of 4 main components:

- Solar panels to convert sunlight into electricity
- · A charge controller to prevent battery from overcharging
- An inverter to convert the DC solar electricity into usable AC power
- · A battery to store the electricity

Solar system setup

- Manually set up portable solar panels
- · Mount the panels on roof

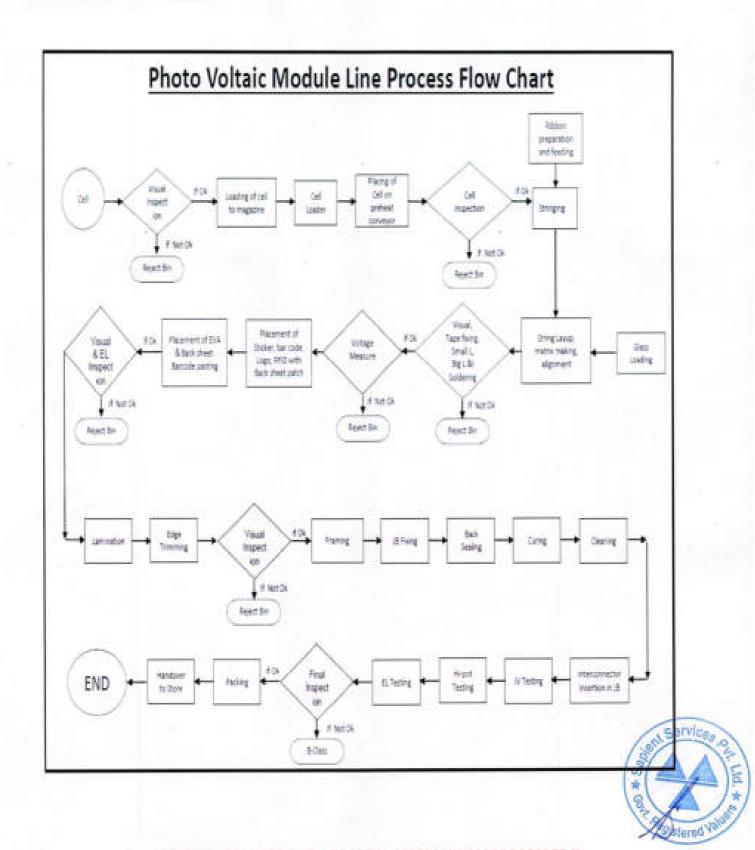
Simply layout solar panels, connect them to the battery, and face them towards the sun. Then, simply move the panels in the direction of the sun every couple of hours to increase solar production.

Roof-mounted RV solar panels is also an alternative option to set up the portable solar panels. However, need to be parked in RV parks, as the roof will need to be exposed to sunlight. This type of system could be slightly more expensive, but their convenience can be valuable.

Pegistered



Process Flow Chart

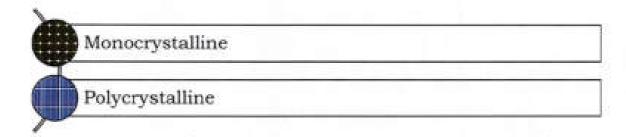


SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Surve Blancatt, L. 63, Lapper Sagar B. Sew Delta - L19624 India Telefac. 011 (2961)234 / 5 / 6 E-mail: valuations supermembers are:



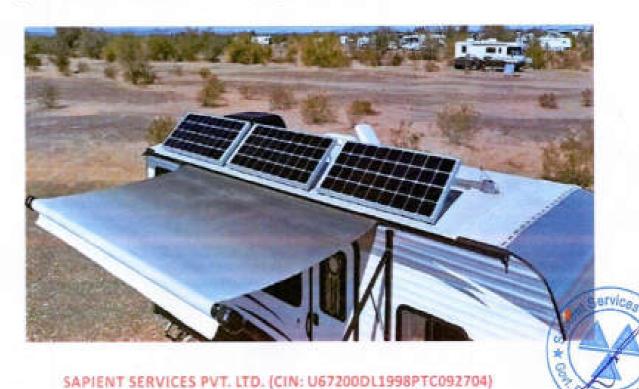
Type of solar panels



There are two main types of solar panels: Monocrystalline and polycrystalline panels. Monocrystalline are the most efficient, and the most expensive. If you are limited on space, then monocrystalline panels are definitely the panels for you. Polycrystalline panels are slightly less efficient than monocrystalline panels, so they are a little bit cheaper.

Production of Solar Panels for RVs

The company propose to produce 100-watt solar panel for RVs. It shall be able to produce 2,500 units per day on single shift basis. This includes Solar Panel, Charge Controller and Mounting Clamps. All the units produced shall be 100% EOU (Export Oriented Units).

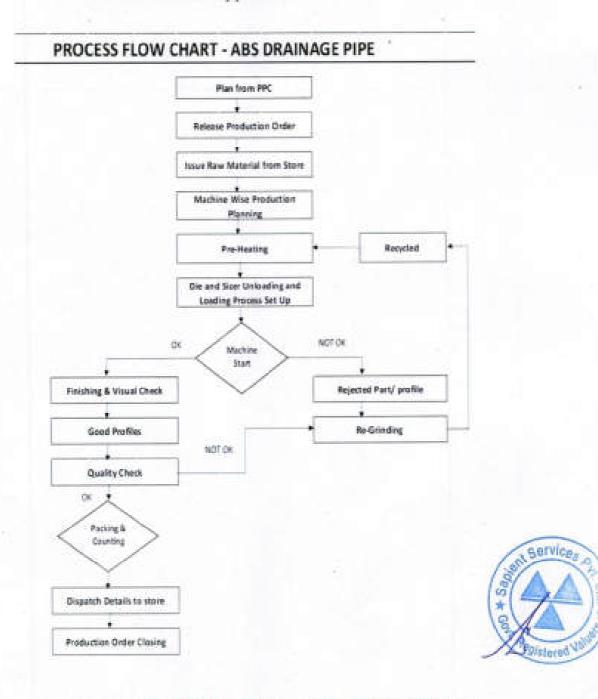


Serry Obsessor, L. vol. Lapter Negar R. Terr Debts. 3 (1902) India. Teleface (VL 29813234 / 3.) 6. B. mad. valuations appear to receive a SERVICES PROVIDED ON PAN INDIA BASIS www.sapientservices.com



3.2.2. ABS Pipes

ABS, or Acrylonitrile Butadiene Styrene, is a plastic pipe that generally comes in black. It can be used for indoor or outdoor plumbing, generally as a drain, waste, or vent pipe as well as sewer pipe. ABS is a strong, rigid pipe, the sizes being proposed to be manufactured should be largely used in the RV's and other allied applications.



SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

States Office and L. W. Laguer Tanger H. New Delta: T1002 4 India. Telefam, O. L. 2001, 2014 (1.8.1 o. H. Sant). enhanced approximation of the



Properties of ABS Pipes: - ABS provide favorable mechanical properties such as impact resistance, toughness, and rigidity when compared with other common polymers. A variety of modifications can be made to improve impact resistance, toughness, and heat resistance. The impact resistance can be amplified by increasing the proportions of polybutadiene in relation to styrene and also acrylonitrile, although this causes changes in other properties. Impact resistance does not fall off rapidly at lower temperatures. Stability under load is excellent with limited loads. Thus, by changing the proportions of its components, ABS can be prepared in different grades. Two major categories could be ABS for extrusion and ABS for injection molding, then high and medium impact resistance. Generally, ABS would have useful characteristics within a temperature range from -20 to 80 °C (-4 to 176 °F).

Production: -

ABS is derived from acrylonitrile, butadiene, and styrene. Acrylonitrile is a synthetic monomer produced from propylene and ammonia; butadiene is a petroleum hydrocarbon obtained from the C4 fraction of steam cracking; styrene monomer is made by dehydrogenation of ethyl benzene — a hydrocarbon obtained in the reaction of ethylene and benzene.





SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Strong Difference, E. S.S., Cappier Strapper W. News Levine (1997) Strates T-Softan, 1933 (2003) SEAR (2015) S. R. Brandill, Softandorres expression recovery.



This unit will be producing only two sizes round pipes i.e. 1.5" & 3" diameter pipe having a length of 10 feet. Which has the maximum demand in the foreign market.

The proposed machinery shall be able to produce 1500 units of 1.5" pipe or 1200 units of 3" pipes per day in single shift operation of 10 Hrs. The Company shall be operating 300 days in a year.

3.2.3. LED Lights and Fixtures

It has a large product mix involving numerous lights and fixtures produced as per the client's/market requirement. The list of LED Lights & Fixtures is as appended below: -

DOWNLIGHT FIXTURE	
SPOT LIGHT FIXTURE	
TABLE LAMP FIXTURE	
WALL LAMP FIXTURE	
STEP LIGHT FIXTURE	
WALL WASHER FIXTURE	
TRACKLIGHT FIXTURE	
ZOOM LIGHT FIXTURE	
HANGING LIGHT FIXTURE	
HIGHBAY LIGHT FIXTURE	
DECORATIVE LIGHT FIXTURE	
POTENTIOMETER	
ROTARY SWITCH	A Ser
	(8) *(9)

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Burg Blanco, S. S., Lague Sugar B. See Debt. 1997 From Februs, 011 29411334 / 5 / 6 K mail reducement superstances on



As SAPIN

To manufacture the LED Lights & Fixtures, it involves various processes some of the main processes are as appended here under: -

MOULDING PROCESS FLOW CHART: -

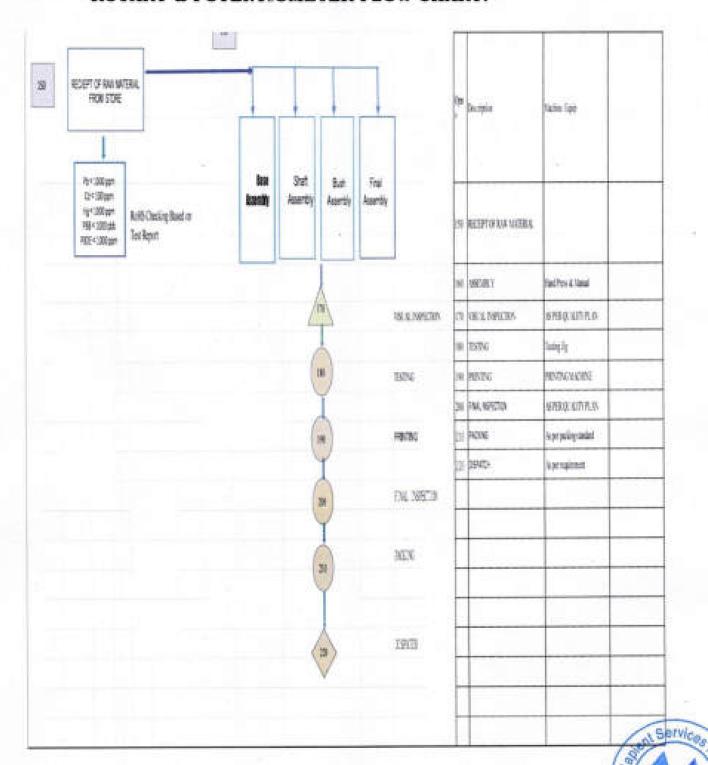
RATION NO.	PROCESS FLOW DIAGRAM	PROCESS CHARACTERISITC	Ref. Documents
1	(w)	TAKE PLAN FROM PPC	PK -
2	Application (RELEASE WORK CHEEN ACCORDING TO PLAN	WORK DROFF (MISAN)
	Rational Co.	MICONI MATERIAL FROM STORE	STOCK TRANSFER (MSAP)
	SATURE.	MATERIA, USUS TO THE SHOP FLOOR ACCORDING TO WORK ORDER/FLAX	ISSUE (MISAP)
	See action, dollars, now	MATERIAL PREHEATING	WORK PROCESS
	SUMM WE RECORDS	MOULD UNIOADING & UNIONG	WORK PROCESS
	Here Hat	MOCES SET UP	WORK PROCESS
	MILITARION AND CONTRACTOR	MAGINE STUTUP	INCOM PROCESS
	NOTICE NOTICE OF STREET	THREING & VISUAL CHECK	WORK PROCESS
I	SM-CHE SECURIT	QUALITY CHECK	WORK PROCESS
		PROXING & PLACING	WORK PROCESS
	人	RUMANIA IL RESECTION PART	WORLPROCESS
	Sinta	BURNES MATERIAL	WORK PROCESS
	ACM COMMAND	MATERIAL CONVENTED FROM MAN MATERIAL IN TO FG.	WORK PROCESS
		REPORTING PRODUCED QTY IN MISSIP.	PRODUCTION REPORTING (MISA
	Minus .	NG KEPT IN NG STORE AT THEIR DEFINED LOCATION.	WORK PROCESS
	SMANN TOTAL	MATERIAL READY FOR ISSUE TO STORE DIPARTMENT.	INCRE PROCESS
Ī			Service Service

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Surve Share en. 1, A.C. Lapper Singur, U. New Lectur, (1902) Andra Selector, OT1-29813234 / 3-7 6, E-mail Control of Selector automatic for the control of t



ROTARY & POTENT OMETER FLOW CHART: -



SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

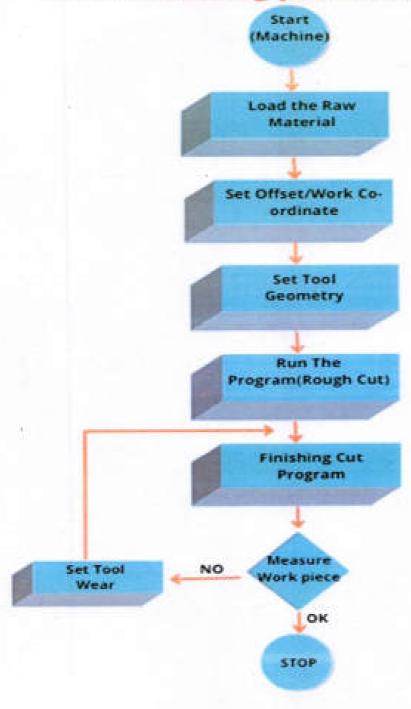
States Discovers, L. S.J. Largert Forger, R. Wew Deller, J. 1990 + Bolis, Telefon, Oct. 2001, 2004 - S.J. M. M. Small, endoarteers appreciately area. Watered Value





CNC MACHINE PROCESS FLOW CHART: -

CNC machining process flow chart





SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

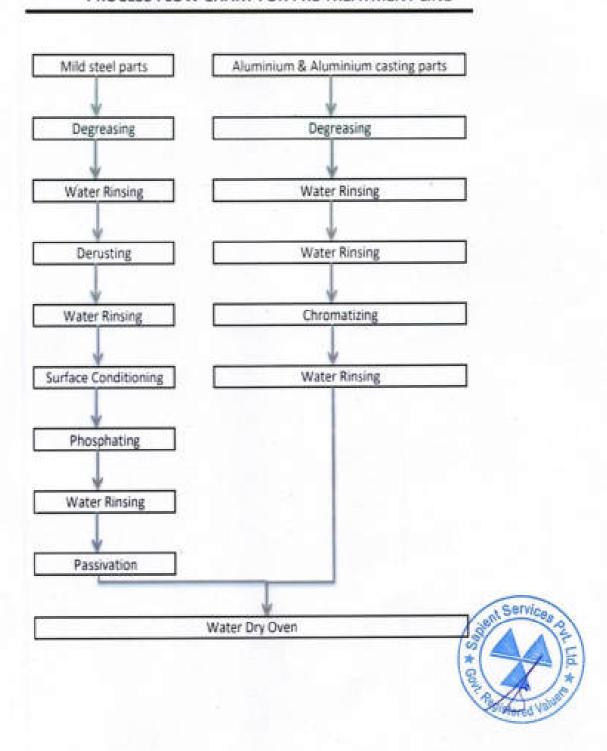
Street Edipson, L. 40, Logist North Editor Debts (1992) Institu-Tolerian (11) (2961) 251 (3) (6) E. mail Contact Contact Services

> SERVICES PROVIDED ON PAN INDIA BASIS WWW.appentorry/cos/crimi



POWDER COATING FRE- TREATMENT FLOW CHART: -

PROCESS FLOW CHART FOR PRE TREATMENT LINE

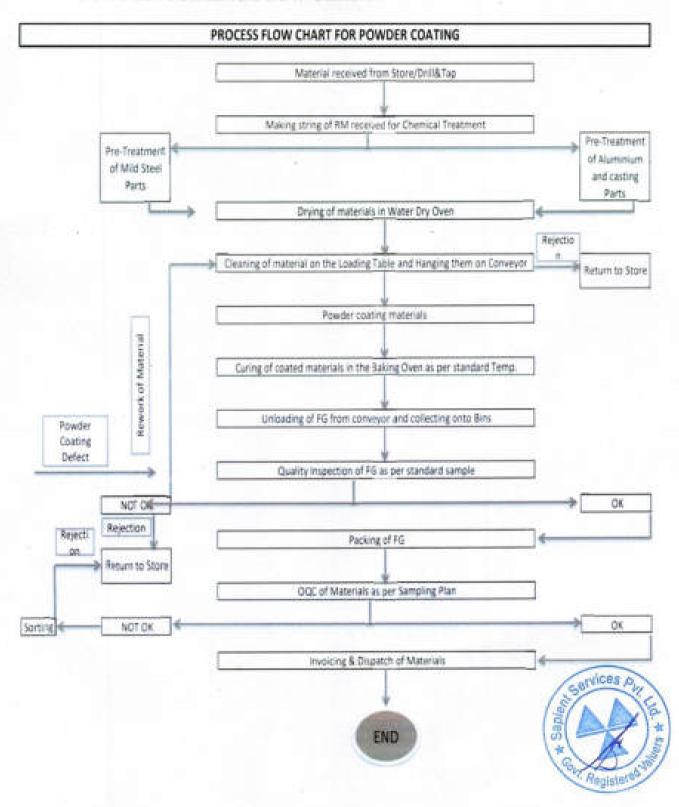


SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Born, Ohabiya, L. S.), Caput Bage II, New Delin. (1992) Both Diletas (CL) (2001)(234-73-7-9-8 maj), substitutive specifications on



POWDER COATING FLOW CHART: -



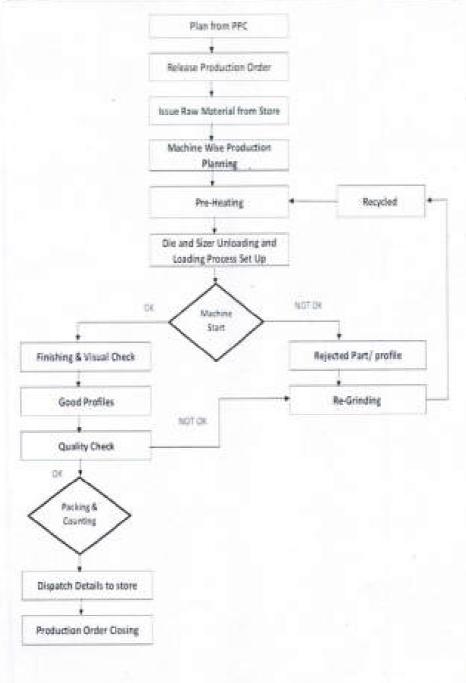
SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Burg Blancott, L.A.S. Legar Ragar B. Sew Delha - 1990/4-bodia Tolelan, 811-1991 8284 / S. J. 6, K. mall Leslaumen, Supermeter Scharen



EXTRUSION FLOW CHART: -

PROCESS FLOW CHART - Extrusion





SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Sizina Minorcon, D. N.S. Lapper Ringar (E. New Perilin - 2 (1992)) forthal Telefology (ELL 2001) (2014) (E. F. et al.). Submitted to appear to recover com-

SERVICES PROVIDED ON PAN INDIA BASIS



Plastic moulding: - Plastic moulding is the process of manufacturing by shaping liquid or raw material using a rigid frame called a mold. This itself may have been made using a pattern or model of the final object. Moulding is of two types is as follows:

- Injection Moulding: This production method is basically based on the molten die-casting method. Heated liquid fills a mold followed by cooling to set and eject a piece as a solid shape and is suitable for three- dimensional product.
- Extrusion Moulding: It is a method by which molten plastic and metal granules through a two-dimensional die opening. In this method, the finished products have a dimensional form which are continuous in length and produces liner form.

Drilling & Tapping Line: - Drilling is the process to creating a smooth hole in a material with a drill and motor whereas tapping is the operation for making internal threads in a hole by means of a tool called tap. The tap is essentially a bolt with threads cut on it.

Power Press Line: - This process is generally used for cutting, shaping, blending and pressing any metal sheet into required shape. It is majorly used in manufacturing industries for getting the casing ready for the appliances.

Power Coating (Automatic & Manual): - Powder coating is one of the most durable finishes that can be applied to industrial manufactured products and offers excellent corrosion protection and is very safe because of its lack of volatile organic compounds. It is also known as a dry finishing process used to apply a dry coating material.



CNC Machine Process: - Computer Numerical Control (CNC) machining is a manufacturing process in which pre-programmed computer software dictates the movement of factory tools and machinery. The process can be used to control a range of complex machinery, from grinders and lathes to mills and CNC routers. With CNC machining, three-dimensional cutting tasks can be accomplished in a single set of prompts.

3.3 BASIC INFRASTRUCTURE

Land and Building: Land admeasuring 20,001 square meter (~5 Acres) has been allotted by New Okhla industrial development authority (NOIDA) vide a lease deed dated 25-July-2019, entered with IKIO Solutions Private Limited (wholly owned subsidiary of IKIO Lighting Limited) located at Plot No. 10, Sector - 156, Noida, District - Gautam Buddha Nagar, Uttar Pradesh – 201301 ("Subject Land"). Subject Land is on long term lease for the period of 90 years. The construction work has already started and the Company, through its wholly owned subsidiary IKIO Solutions Private Limited has planned to construct the building area admeasuring 5,06,381 Sq. Ft. The Subject Land lies in an industrial area and is accessible through an approx. 20 ft. wide road.

UTILITIES

• Research and Development: The Company's R&D team is constantly dedicated to advance and upgrade company technology; their lighting systems are produced in an efficient and sustainable way. Which means fewer materials are needed to manufacture the same product, which leads to a reduced system cost and the number of leftover materials which need to be recycled or thrown away as waste. At IKIO, company follow strict quality control protocols and have partnered with sourcing companies known for their outstanding records in maintaining impeccable standards of their supplied components. With their R & D Lab, assembly lines and a second components.

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)



round-the clock team of well-equipped engineering and support staff, company strive to deliver innovative, reliable, efficient lighting solutions befitting their client's specific needs. Company continue to keep focus on creating innovative technologies to bring sustainable products for the market because IKIO understand that savings on energy also means fewer greenhouse gases and more money in your pocket. Company recognize the future environmental and economic impacts that would be brought about by climate change and increasing energy demands in the upcoming future.

- Availability of Raw Materials: The Company procures raw material from various domestic and foreign vendors. Majority of the Company's raw materials are sourced from so many vendors, based on the Company's requirement. Further, the suppliers undergo a qualification process to ensure that the supplied raw materials are of appropriate quality. The purchase price of raw materials generally follows market prices. The Company typically purchases raw materials based on the historical levels of sales, actual sales orders on hand and the anticipated production requirements taking into consideration any expected fluctuation in raw material prices and delivery delay. Moreover, the Company does not rely on a single source or vendor for components, instead, have alternative sources for vendors for each component category. This offers leverage to ensure availability of materials and negotiate better credit terms at cost-effective rates.
- Power Requirements: Since the proposed locations are set up in Industrial Zones notified under New Okhla Industrial Development Authority, the power availability normally remains stable. High tension power supply is required for manufacturing operations. The requirements for power supply for the proposed Project shall be obtained from Noida Power Company of Limited (NPCL). A backup power system is used by the company to provide

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

energy when the primary source of energy fails. This system is very important since an uninterruptible power supply is crucial for any operation. The current backup systems include diesel generators, which operate on diesel, propane, or gasoline. Two DG sets of 1 Megawatt each. Which will be sufficient to run the entire unit uninterruptedly.

Power required for all the products manufactured at Sector - 156, Noida: -

Particular	Power Required
Solar For Recreational Vehicles	200 KW
ABS Pipe	235 KW
Led Lights and Fixtures	350 KW
Total	785 KW

- Water: Proposed RO plant is to be set up by the company with total capacity of 4000 Ltrs. Per Day with ETP. The water supplies sufficient for the initiation of the proposed Project.
- Pollution and Control technology: Manufacturing process of the Company does not create pollution to the environment in any aspects (Air, Water & Sound). All the plants of the Company are classified under the Green and White zone category under the pollution standards. Annual air quality is monitoring in the company to ensure that the air quality is within the prescribed limits of the company.
- Fire Fighting Setup: Firefighting setup is present at the subject location
 of the company. Prevent the spread of and extinguish significant unwanted
 fires in buildings, vehicles, and woodlands. All fires can be extinguished by
 cooling, smothering, starving or by interrupting the combustion process to
 extinguish the fire.

Ged W



3.3. Approvals

- All relevant statutory approvals are followed by the company. Statutory
 Approvals means any and all approvals, non-objections, authorizations
 ratifications etc. required from Ministries, Authority, government agencies,
 local government agencies etc. as are, from time to time, required for
 completion of the Project has initiated by the company.
- The Company is required to obtain certain approvals from various authorities. The necessary applications will be made with respective authorities as and when the project execution is in force on a timely basis (i.e. prior to commencement of these projects).

Land Related Approval:

Building plan approval is already in place

List of Material Government approvals or registrations which shall be obtained by the Company as and when required under the said regulations. No approval is required to be taken at this stage except as marked follows:

Sr. No	Approval for	date		proval for Authority Application Approval appr		Stage at which approvals are required	Status
1	Consent to establish	Noida Authority	To be applied	NA	Before commissioning	Not yet Applied	
2	In-principle approval of building layout	Noida Authority	17 March 2020	17 July 2020			
3	Sanction of electrical load	UP Electricity Board	11 April 2023	NA	Before commissioning	Applied	
4	In-principle approval to construct, extend or take into use any building as a factory	Noida Authority	To be applied	NA		Not yet Applied	
5	Factory License	Industrial Deptt.	To be applied	NA	Before commissioning	Not yet Applied	

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Norm Disease, S. 83, Lague Rague II, New Zeite. 1 (1912) India. Delenia: 011-2981-228 / 5 | 6 | 6 mail. vulnations supermises some Vistated Vo



Factory Related Approvals

- There are no certifications applicable for Production Plans. Food & Safety Certification is for the Food preparation arrangement for the employees.
 This is not for any commercial usage.
- Company is certified by Bureau Veritas Certification Holdings SAS for SA
 8000 the Social Accountability Management System Standard.
- Operating Shifts: The Company operates in single shift basis i.e. 8 hours
 in a day and 25 days in a month. The Company have spare time to extend
 the operating hours because company running in a single shift basis. There
 are 10 days maintenance period in a year.



4. TOTAL ESTIMATED COST

- 4.1. The total estimated cost for setting up of the proposed Project is approximately ₹ 2,628.75 million. Please see below the table for the break down of the estimated costs, including the period of deployment:
- 4.2. Contingency Costs: We envisage that there might be price fluctuations and the currently estimated project cost may increase on account of factors beyond the control, including increase in cost of machinery and associated transportation or other charges or taxes. The total estimated cost for contingencies is ₹ 216.18 million as estimated based on our past experience which is 10 % of the total amount for setting up the proposed Project.

S No.	Particulars	Total Estimated Costs (Excl Tax)	GST @18%	Total Estimated Costs (Incl Tax)	Already Spent (Till Apr-23	Fiscal 2024	Fiscal 2025
		and the second second		(INR	/ Mn)		
A	Land & Building (Already Spent)				(A.S		
1	Land	225.52		225.52	225.52		
	Sub Total (A)	225.52		225.52	225.52		
В	Civil and Structural Works & Others						
1	Building Works	489.75	107.51	597.25		238.90	83.91
2	Interior Fitouts	149.48	32.81	182.30		72.92	109.38
3	Electrical Works	119.05	21.43	140.48		56.19	84.29
4	Plumbing Works	37.99	6.84	44.82		17.93	26.89
5	Fire Fighting Works	40.77	7,34	48.11		19.24	28.86
6	Lifts	33.33	6:00	39.33	5.67	15.73	17.93
	Sub Total (B)	870.36	181.93	1,052.29	280.11	420.91	351.27
C	Plant & Machineries				100000000000000000000000000000000000000	0.0700	
1	Solar Panels	55.78	10.04	65.82	-	65.82	- 3
2	ABS Pipe	13.09	2.36	15.44		15.44	
3	LED Fixture	485.27	87.35	572.62		572.62	- 41
4	LED Lights for RV	215.94	38.87	254.81	9	254.81	1
5	DG Sets	86.80	15.62	102.42	-	102.42	
	Sub Total ('C)	856.88	154.24	1,011.12		1,011.12	
D	Administrative						
-1	Furniture & Fixtutes	50.69	9.13	59.82		59.82	
2	Airconditioners	54.08	9.73	63.82		63.82	1
	Sub Total (D)	104.78	18.86	123.63		123.63	
E	Contingencies	183.20	32.98	216.18	18	153,57	60.61
	Sub Total (E)	183.20	32.98	216.18	18/	A 155.57	60.61
	Total (A+B+C+D+E)	2,240.74	388.01	2,628.75	505.63	1,711.23	411.88

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Burpi Bhoyon, L. S.), Laput Nagar II, See Delhi - 170024 India Delefan: 011-20013231 / S./ S. E-mail: valuations supromervious resiWatered Vall



4.3. Civil and structural works: Civil and structural works for the proposed Project include land development work, pre-engineered building contractions, and others. The total estimated cost for civil and structural works for the proposed Project is ₹ 1,052.29 million. A detailed break-up of such estimated cost towards civil and structural works is set forth below:

Building Planning is as under:

	Sq. Mtr.	Sq. Ft.
Area under construction in Basement	10,176	1,09,534.46
Area in Block 1	14,534	1,56,443.98
Area in Block 2	14,534	1,56,443.98
Area in Block 3	7,800	83,959.20
Total Built-up	47,044	5,06,381.62

S No.	Description	QTY	Unit	Rate (Rs.)	Total Amount (Rs./Mn)	GST out of total amount (Rs./Mn)
A.	BUILDING, SERVICES, FITMENTS	& SITE DEV	ELOPM	ENT WOR	KS	
1.	Civil & Structural work including all brickwork & elevator shafts					
	Concrete M30	21169.8	Cu.m	7,500	158.77	28.58
	Reinforcement Steel	352830	Kg	82	28.93	5.21
	Brickwork 230mm THK	18817.6	Cu.m	6,500	122.32	22.02
	Shuttering	141132	Sq m	600	84.68	15.24
2	Building Skin @ 30% glass surface finished with glass and 70% finished with Plaster and sand stone cladding /equivalent permanent finish	506381.62	sq ft.	250	126.59	22.79
3	Landscape & site development including levelling of exisiting ground, soft and hard finishes including RCC / Stone finished road surface & water bodies.	506381.62	sq ft.	150	75.96	13.67
	Total for Building works				597.25	107.51
В	INTERIOR FITOUTS					(=1000,1000)
1	Civil finishing / Interior work for atriums, stairwells, common areas etc.	101276.32	sq ft.	1800.00	182.30	Service 32.81
	Total for Interior Fitouts				182.30	32.81
C	ELECTRICAL SERVICES					(*) A

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Sorral Efficiency, L. S.A. Lupper Nagar H. Stew Liebn. 1300-24 folder. Scholer, Oct. 1944 (1914 - N.) 4, M. Smill, Indian Separate Services of the



S No.	Description	QTY	Unit	Rate (Rs.)	Total Amount (Rs./Mn)	GST out of total amount [Rs./Mn]
1	High side & Low side	506381.62	sq ft.	235	140.48	21.43
D	PLUMBING		1.5			
1	High side & Low side	506381.62	sq ft.	75.00	44.82	6.84
E	FIRE FIGHTING					
1	High side & Low side	506381.62		80	48.11	7.34
F	LIFTS					
1	Passenger Lifts	9	nos.	2.51839	26.75	4.08
2	Service Lift	7	nos.	1.52310	12.58	1.92
	Total for Lifts & Escalators				39.33	6.00
SUMM	ARY OF THE ABOVE COSTS					
A	BUILDING, SERVICES, FITMENT WORKS	rs & site deve	LOPME	NT	597.25	107.51
В	INTERIOR FITOUTS				182.30	32.81
C	ELECTRICAL WORKS (LOW SID)	E & HIGH SIDE)			140.48	21.43
D	PLUMBING (LOW SIDE & HIGH	44.82	6.84			
E	FIRE FIGHTING WORKS	48.11	7.34			
F	LIFTS				39.33	6.00
TOTAL	L FOR THE ABOVE COSTS				1,052.29	181.93

4.4. LIST OF MACHINERY FOR SETTING UP A MANUFACTURING UNIT AS PER ANNEXURE - I

Out of the total estimated cost of the proposed Project, the estimated cost towards the plants and machineries are ₹ 1,134.75 million. A detailed break-up of such estimated cost towards process plants and machineries which is proposed to be funded from the Net Proceeds is set forth below:

S. No.	Machine	Source	Rate (Mn)	Qty	Machine Cost (Inc. Tax) (Mn)	Name of Vendor	Date of Quotation	Validity of Quotation
1	Solar Module Manufacturing Equipment	Imported	\$0.672	1	₹ 65.82	AW Solar Solutions India	26 Aug. 2022	25 Aug, 2023
1.1	FULLY AUTOMATIC TABBER STRINGER (2600 Cell/Hr) with 1388 Kit					ITICISE	\$ \$ \$300000 P	Services A

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Storial Diseases. L. St., Laptur Rogar H., New Debia. 1 2002 Findia Telefone VIII 2001 I 210 (5) S. F. Hamadi, auditation comprehensive second



S. No.	Machine	Source	Rate (Mn)	Qty	Cost (Inc. Tax) (Mn)	Name of Vendor	Date of Quotation	Validity of Quotation
	FULLY AUTOMATIC LAMINATOR (2600x5800)							
	SEMI AUTO FRAMING MACHINE with Corner Crimp.							
	SUN SIMULATOR CLASS AAA (for Poly & Mono PERC)						74	
	FULLY AUTOMATIC EL TESTER WITH AOI APPERANCE TESTER (8 Camera)							
2	ABS Pipe Extrusion Setup	Imported	\$0.073	2	₹15.44		02 Sep 2022	01 Sep 2023
2.1	1.75/33 75KW Out layer							
	2.75/33 75KW Middle layer					QINGDAO Hanhai Plastic Machinery		
	3.65/33 45KW Inner layer					Co, Ltd.		
	4.25/25 1.5KW Mark line							
3	Fixtures							
3.1	Tool Room							
3.1.1	CNC Wire Cut EDM	Imported	\$0.08	2	₹16.91	Phillips Machine Tools India Pvt. Ltd.	08 Aug 2022	07 Aug 2023
3.1.2	VMC-1	Imported	\$0.06	3	₹18.11		07 Aug 2022	06 Au
3.1.3	VMC-2	Imported	\$0.07	3	₹21.91		07 Aug 2022 08 Aug 2022	586 AU 2023
3.1.4	Lathe 250x1500	Domestic	₹1.31	3	₹4.64		08 Augy 2022 *	30 Ju 2023

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Survive Charges, 1, 50 Largest Nagar R. Sew Lectio (1990) Studio. Peletar: 011 200 [J.234 / 2.76 E-mail: Cultivation compression and



S. No.	Machine	Source	Rate (Mn)	Qty	Machine Cost (Inc. Tax) (Mn)	Name of Vendor	Date of Quotation	Validity of Quotation
3,1.5	Lathe 325x2000	Domestic	₹1.66	3	₹5.88		08 Aug 2022	07 Aug 2023
3.1.6	EDM Die Sinker 400mm	Domestic	₹1.47	2	₹3,46		08 Aug 2022	07 Aug 2023
3.1.7	EDM Die Sinker 450mm	Domestic	₹1.61	2	₹3.79		08 Aug 2022	07 Aug 2023
3.1.8	Surface Grinder 1	Domestic	₹2.36	3	₹8.35		08 Aug 2022	07 Aug 2023
3.1.9	Milling Machine	Domestic	₹0.72	3	₹2.57		08 Aug 2022	31 Aug 2023
3.1.10	3D Printer	Domestic	₹2.15	2	₹5.07		08 Aug 2022	31 Aug 2023
3.2	Molding Setup							
3.2.1	Moulding Machine 110T	Domestic	₹4.08	3	₹14.45		05 Aug 2022	03 Sep 2023
3.2.2	moulding Machine 180 T	Domestic	₹5.26	3	₹18.63	Milacron India Pvt Ltd	05 Aug 2022	03 Sep 2023
3.2.3	moulding Machine 230 T	Domestic	₹6,44	4	₹30.37	(ENVE)	05 Aug 2022	03 Sep 2023
3.2.4	Mould (Walpack)	Domestic	₹5.83	3	₹20.62		07 Feb 2023	06 Aug 2023
3.2.5	Mould (Flood Light)	Domestic	₹5.92	3	₹20.94		07 Feb 2023	06 Aug 2023
3.2.6	Mould (Area Light)	Domestic	10.91	2	₹25.75	KH ENGINEERING & BUSINESS	07 Feb 2023	06 Aug 2023
3.2.7	Mould (Bollard Light)	Domestic	₹7,44	2	₹17.55	7.0	07 Feb 2023	06 Aug 2023
3.2.8	Mould (UFO)	Domestic	₹3.92	3	₹13.88		07 Feb 2023	06 Aug 2023
3.3	Die Casting Setup							
3.3.1	Die Casting Machine 420	Imported	\$0.21	2	₹45.19	41524	09 Aug 2022	08 Aug 2023
3.3.2	Die Casting Machine 650	Imported	\$0.34	2	₹71.78	YOTA INTERNATIONAL/D	09 Aug 2022	08 Aug 2023
3.3.3	Die Casting Machine 900	Imported	\$0.47	2	₹99.70	STECH	09 Aug 2022	08 Aug 2023
3.4	CNC Machine Setup							
3.4.1	CNC Hydraulic Press Brake	Domestic	₹2.85	3	₹10.09	HACO Machinery Pvt. Ltd.	0条。指摘で に 30028 の	92 Oct 2023

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704

Story Blookay, L-87 Laguet Nagur B, Sen, Delta - 1,0024 indix Telefax, 011-29813234 / S / G B-mail / subjections/superintervices.com

Poplater No.





S. No.	Machine	Source	Rate (Mn)	Qty	Machine Cost (Inc. Tax) (Mn)	Name of Vendor	Date of Quotation	Validity of Quotation
3.5	Machining Setup				1133-22			
3.5.1	Laser Cutting	Domestic	₹3.10	3	₹10.97	Premier Laser	02 Sep 2022	01 Sep 2023
3.5.2	Powder Coating Plant	Domestic	₹34.75	2	₹82.01	Shyamlee Metal Industries	04 Feb 2023	05 Aug 2023
4	LED Lights for RV							
4.1	SMT Line 1							
4.1.1	Printer	Imported	\$0.055	3	₹17.45		12 Jun 2022	11 Jun 2023
4.1.2	Pick & Place	Imported	\$0.20	3	₹63.46	JUKI INDIA PRIVATE LTD	12 Jun 2022	11 Jun 2023
4,1,3	SPI+AOI	Imported	\$0.045	3	₹14.28		12 Jun 2022	11 Jun 2023
4.1.4	Reflow Oven	Imported	\$0.153	3	₹48.55	SHENZHEN ETA TECHNOLOGY CO., LTD	12 Jun 2022	11 Jun 2023
4.1.5	ISM	Imported	\$0.15	3	₹47.60	JUKI INDIA PRIVATE LTD	12 Jun 2022	11 Jun 2023
4.1.6	Thru-Hole Insertion	Imported	\$0.20	3	₹63.47		12 Jun 2022	11 Jun 2023
5	Administrative							
5.1	Furniture & Fixture							
5.1.1	Wooden Flooring	Domestic	₹3.23	1	£3.81		16 Sep 2022	15 Sep 2023
	Carpeting	Domestic	₹6.00	1	₹7.08	Rajendra Carpets	16 Sep 2022	15 Sep 2023
	Blinds	Domestic	₹5.64	1	₹6.65		16 Sep 2022	15 Sep 2023
	Cartage & Fixing Labour	Domestic	₹0.78	1	₹0.91		16 Sep 2022	15 Sep 2023
5.1.2	Air conditioning							
	High Side VRV (Equipments)	Domestic	₹26.23	1	₹30.95		15 Sep 2022	13 Sep 2023
	Low Side VRV (Installation & Accessories)	Domestic	₹27.86	1	₹32.87	EKOAIRE INC	15 Sep 5	2023
5.1.3	Cabins & Work Stations	Domestic	₹35.06	1	₹41.37	Impact Interior Systems	16 Sep 2022	15 Sep 2023

many Bluewer, L. W. Lepper Nazar II, Sew Della - 7 (1972) India Sub-Day Of L-200 (3234) S.) 6. E-mad (rahadom aupientar rose (com



S. No.	Machine	Source	Rate (Mn)	Qty	Machine Cost (Inc. Tax) (Mn)	Name of Vendor	Date of Quotation	Validity of Quotation
5.1.4	Gas DG Set - 1160 Kwe	Imported	\$0.40	2	₹78.35	JAKSOM Limited	21 Sep 2022	20 Sep 2023
	Gas DG Set - Parts Fitting & Installation	Domestic	₹10.20	2	₹24.07		21 Sep 2022	20 Sep 2023
	Total				₹1134,75			

*Note- The List of Machinery contains conversions of certain currency amounts into Indian Rupees that have been presented solely to comply with the requirement as per RBI Guideline.

The following table sets forth, for the periods indicated, information with respect to the exchange rate: -

Currency	Exchange rate	13/A A 1/2
1 USD	83.00	(S) (A)
INR	1.00	18 12



4.5. Proposed schedule of implementation of the proposed Project

The proposed schedule of activities in respect of the proposed Project are as follows:

S. No	Particulars	Actual / Estimated Commencement Date	Expected completion date#
1.	Land acquisition	Land acquired (Lease deed dated 25-July-2019 entered with Okhla industrial development authority)	N.A
2.	Site development and civil and structural works	November 2022	March 2025
3.	Procurement of Plants and machineries	May 2023	October 2023
4.	Procurement of Utilities and others	May 2023	September 2023
5.	Procurement of Electrical and construction supervision	May 2023	March 2025
6.	Installation of Plant and Machineries	June 2023	December 2023
7	Erection of Utilities and others	June 2023	October 2023
8.	Erection of Electricals	November 2022	March 2025
9.	Trial run	November 2023	December 2023
10.	Commencement of commercial production	January 2024	N.A.

Subject to receipt of proceeds from the IPO in the May 2023.

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)



4.6. SWOT Analysis of the Project:

Strenghts

 Company already have experience in manufacturing industry i.e. Solar Panel for Recreational Vehicles, ABS Pipes, LED Lights and fixtures.

- The Company will also be able to leverage on the existing market marketing network of the group.
- Company also have favorable external factor that could give a competitive advantage.

Weakness

 Competition in the sector would require the Company to ensure that it remains relevant both from a pricing as well as quality perspective

SWOT

Opportunities

- The LED Market in India is growth at a quick pace and this is likely to provide strong opportunities to the Company
- The RV market in the USA, based on publicly available sources, is a large market and India as a manufacturing hub is a strong opportunity for the Company

Threats

- Execution Risk: The Company will have to ensure that it completes its proposed expansion in time so that it can capitalise on the opportunity
- Financial Risk: The Company is investing a large amount of capital. While there is financial risk, we believe it is commensurate to the amount fo expertise and opportunity that the Company has.

For SAPIENT SERVICES PVT. LTD.

(Authorized Signatory)

SAPIENT SERVICES PVT. LTD. (CIN: U67200DL1998PTC092704)

Song Blasson, L.S.; Lague Bagardi, New 29th - CrosQ9 bods. Telebra 113 - 29915324 (S.) is K-maji ; inhadis-accupant services com



5. GENERAL ASSUMPTIONS AND LIMITING CONDITIONS

Following Assumptions and Limiting conditions also form the basis of this assessment report:

- 5.1. For the purpose of this exercise, we have assumed that the assets propose in the Detail Project Report shall be owned by the Client.
- 5.2. In the course of this exercise, we have relied upon the hardcopy, softcopy, email, documentary and verbal information provided by the client without further verification. We have assumed that the information provided to us is reliable, accurate and complete in all respects. We reserve our right to alter our conclusion at a later date, if it is found that the data provided to us by the client was not reliable, accurate, or was incomplete.
- 5.3. We have submitted a list of information required to carry out this assessment of the specified tangible assets to the company. Accordingly, we have prepared Detailed Project Report (DPR) of IKIO Solutions Private Limited on the basis of information furnished to us.
- 5.4. Other observations, assumptions and limiting conditions, as appropriate, are also intended in the respective sections of this report and annexure.

FOR SAPIENT SERVICES PVT. LTD.

(Authorized Signatory)