

ShenZhen LKK SCM CO.,LTD

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Atten:

TO:

"Address: TBC

Tel:

Date:

Items No.	LKK Working Progressing		Service Content	Remark
1	Brainstorming	头脑风暴	Creative Design -创意设计	
2	Concept Sketch Design	概念草图		
3	Detail Sketch Design	细化草图		
4	ID-Sketch Proposal	草图评审提案（沟通环节）		
5	2D Design（2D-Rendering & PPT）	2D设计（2D效果图及PPT制作）	2D Design- 2D 设计	
6	2D Design Proposal	2D提案（沟通环节）		
7	2D Modification Confirming	2D 修改 确认		
8	Surface Appearance Design	3D建模	3D Design- 3D 设计	
9	3D Design（3D-Rendering & PPT）	3D设计（3D效果图及PPT制作）		
10	3D Design Proposal	外观3D效果图提案（沟通环节）		

11	3D Modify	3D方案外观细化(确定最终方案)		
12	Final Design Improvement	最终设计修改		
13	CMF	工艺说明与产品丝印制作		
14	ID-Prototype management	外观手板制作监制	ID-Prototype management-外观手板监制	
Industrial Design Cost:				
15	Structure Kick-Off Meeting (Confirm function & Hardware)	结构启动会(解读功能，确认硬件)	Framework Design -框架设计	
16	3D Model Transformation And Disassembly Of Industrial Design	3D模型转化和拆件		
17	Structure General Design	结构框架制作 (结构设计报告)		
18	Structure General Design Proposal	框架提案		
19	Structure Detail Design	结构细化设计	3D Mechanical Design Detailed -3D 结构设计细化	
20	Structure Internal Review & Modify	结构内部评审及修改 (结构设计报告)		
21	Structure Design Proposal	产品结构设计提案		
22	Structure Modification & Confirmation	结构修改，确认		
23	BOM & Prototype Document Preparation	出结构BOM表，出手板制作资料	BOM & Prototype Document Preparation	

24	Prototype Test	结构手板制作监理	Prototype Test	
Mechanical Design Cost:				
25	Product Function Principal Analyze	产品功能原理分析	Functional Requirement Interpretation -功能需求解读	
26	Product Function Confirm	产品功能确认		
27	Electronic device selection	硬件选型	Schematic Design- 原理图设计	
28	Schematic Design	电路原理图设计		
29	Schematic Design Confirmation	电路原理图设计确认		
30	PCB Dimension Confirm	PCB尺寸图确认		
31	Layout Design	PCB LAYOUT	Layout Design	
32	PCB Sample	PCB打样	PCBA Samples Making- PCBA 打样	
33	PCB Component Soldering	PCB元器件打样		
34	Electronic Test	PCBA样板制作及软硬件调试测试	PCBA Testing- PCBA 功能调试测试	
35	PCBA Samples Modification	PCBA 样板修改		
36	Electronic Solution Confirm	PCBA样板功能确认（根据调试结果待定）		
Function Development Cost:				
42	Inquiry and Business Confirming	外发询价及商务确认		

43	MD-Prototype making Manufacturing	结构手板零件加工	Prototype- 手板制作	
44	Function verification & Improvement	功能调试测试修改		
45	Structural design drawing review	结构设计图纸评审	DFM Evaluation -DFM 分析	
46	Structural drawings optimizing	结构图纸优化		
47	Structural drawings %ID confirm	结构图纸确认		
48	BOM CMF adjustment & updated	图纸 BOM、CMF更新		
49	Surface Design for Packaging	包装外观设计	Packaging Design -包装设计	
50	Structure Design for Packaging	包装结构设计		
51	Packaging Samples Making	包装打样		
52	Tooling Requirement And Business Confirm	模具需求和订单确认	Tooling Design -模具设计	
53	DFM confirmation (design for mold)	DFM 确认 (design for mold)		
54	Tooling Design	模具设计		
55	Tooling Drawing Approved(CUSTOMER)	模具图纸批准(客户)		
56	Tooling Making Process	模具制作过程	Tooling Making -模具制作	
57	First Shot (T1)	首次试模		
58	Test Equipments & Jig Preparation	测试设备和夹具准备		

59	Engineer Sample Material Preparation	工程师样品材料制备	Testing and T1 -测试和T1	
60	First Engineer Samples Build	第一个工程师样本构建		
61	Product Safety Approval(BIFMA)	首次安全测试 (BIFMA)		
62	First Sample Performance Verification	第一个样品性能验证		
63	First Sample Performance Verification(CUSTOMER)	第一个样品性能验证 (客户)		
64	First Modification Command(CUSTOMER)	第一次修改命令 (客户)		
65	The second Modification Process	第一次修改的过程		
66	Second Shot (T2.....Tn)	第二次试模 (T2.....Tn) n=2,3...n		
67	The N Engineer Samples Build	第N次工程师构建样本	Trial Production -小批量生产	
68	Final Sample Review	第N次样品审查		
69	The N Sample Review(CUSTOMER)	第N次样品审查 (客户)		
70	sample confirmation	小批量封样		
71	Output of all production materials (including SOP)	所有生产资料导出 (含SOP)		
72	Pilot Run	小批量试产		
73	Certification	测试认证		
74	Engineer Test	工程师测试		

75	Summary for pilot Run	小批量总结		
76	NPI (New Product Input)	NPI (new Product Input新产品导入)	Mass Production & Continual Improvement --大货量产和改良	
77	Manufacture process &product optimization	产品优化和制程改良		
78	Product Approval Meeting	产品批准的会议		
79	Long Lead Time Material Order (Mass Production)	长期订货量产		
80	Components for Mass Production	零配件的大规模生产		
81	Assembling for Mass Production	组装批量生产		
82	Outgoing quality control -OQC	出货检验 OQC		
83	Shipment	装载的货物		
Total :				