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Request_ID	Product_Im age	Product_Ske tch	Product_Descri ption	Customer_ID
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nt	h	h	d

Service_ID	Name	Accepted_Files
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2	Laser Cutting	.pdf, .dxf, .jpeg
3	CNC Carving	.step, .stl, .obj
4	CNC Milling	.pdf, .dxf, .jpeg, .step
5	Plasma Cutting	.obj, .stl, .step
6	Sand Casting	.obj, .stl, .step
7	Investment Casting(Lost wax)	.obj, .stl, .step
8	Fiber Glass Resin Casting	.obj, .stl, .step, .jpeg
9	Injection Molding	.obj, .stl, .step
10	Metal Fabrication	.jpeg, .pdf, .dwg, .iges, .step
11	Sheet Metal Work	.pdf, .dxf, .step, .iges
12	Die/Mold Tooling	.jpeg, .step, .stl, .iges
13	Vacuum Forming	.step, .iges, .stl
14	Garment/Fabric	.dwg, .pdf, .dxf, .jpeg

Project_ID	Customer_ID	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
89	99	ram.zenertech@gmail.com	Protechnepal Face Shield	2021-11-1	CNC, Injection Molding, Laser Cutting, Sewing	Polypropylene, APET Plastic, Elastic Band	<p>Reusable Face Shield for COVID-19 protection: Clear, Comfortable and Reusable</p>	<p>Need for Innovation:<p><p><p>In times of global pandemic like the COVID-19, shortages of PPE and essential medical items are apparent. The spread of deadly virus engulfed entire world at the same time - leaving behind the conventional aid supply chain disrupted. In the first phase of COVID-19, many countries including Nepal was hit worst with the shortage of PPEs and other essential items. </p><p>Collaboration for Innovation:<p><p>Protechnepal initiative, a consortium of maker companies, designers, medical volunteers and innovation center initiated the local production of face shield with	[{"fileName": "protechimage1600264254.jpg", "filePath": "/uploads/customer/99/FeatureProject/projectMainPhoto/projectimage1600264254.jpg", "oldFileName": "protechimage1600264254.jpg"}]	{ "fileName": "protechimage1600264254.jpg", "oldFileName": "protechimage1600264254.jpg"}]	{ "fileName": "protechimage1600264254.jpg", "oldFileName": "protechimage1600264254.jpg"}]

Project_ID	Customer_IDs	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
								the available raw materials and resources. Er. Ram Chandra Thapa and Er. Nilesh Pradhan, inspired from other 3D printing response group in Europe designed and iterated several versions of faceshield in Nepal. The engineering team was backed by the talented medical professionals and volunteers like Dr. Roshina Thapa and her team. The medical professionals provided user feedback on each iterations made and that helped designers come with a near to perfect Nepali face shield. sp;</p><p>Prototyping with 3D Additive Manufacturing:</p><p>>The product development process was made	61420.29"}, {"fileName": "FSfoamcircuit.jpg", "filePath": "/uploads/customer/99/FeatureProject/prototypeUploads/FSfoamcircuit1636561420.jpeg"}, {"fileName": "FileName": "FSmaking.jpg", "filePath": "/uploads/customer/99/FeatureProject/prototypeUploads/FSmaking1636561420.jpeg"}, {"fileName": "FileN		
Page number: 7/32						Dec 17, 2021 at 02:29 PM					

Project_ID	Customer_ID	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
								easy with the use of 3D Printing process at Zener Technologies. With 3D printing, the transition time from idea and design to a functional prototype was shortened to 3 days. The demand for first phase of PPE distribution was fulfilled by outsourcing production - Ten 3D printing hubs joined to make around 150 face shields per day. 3D printers used were Tiertime UP BOX+ and UP300, Creality Ender and CR10 mini, Qidi and Prusa 3D printers, and the materials used were PLA, ABS and PETG 3D filaments. Each frame took around 1 hr 15mins of print time and consumed 40gram material. These 3D printed	ame": "S_AVE_20_200_428_11_111_2.jpg", "filePath": "/uploads/customer/99/FeatureProjectUploads/S_AVE_20_200_428_11_111_216_356_614_21.jpg"}, {"fileName": "S_AVE_20_200_428_11_110_0.jpg", "filePath": "/uploads/customer/99/FeatureProjectUploads/S_AVE_20_200_428_11_110_0.jpg"}]		
			Page number: 8/32				Dec 17, 2021 at 02:29 PM				

Project_ID	Customer_ID	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
								were distributed to different hospitals based on necessity by the National Innovation Center and medical volunteers.</p><p>Scaling Production with Die, mold and Injection Molding:</p><p><p>As time passed by, COVID-19 infections hit a record number every new day and the lockdown was made more strict and the supplychain seized throughout the country. The critical shortage of PPEs was faced throughout the world and the Mahabir Pun led National Innovation Center announced the continuous unlimited distribution of PPEs for the frontline medics. To meet high demand and to address such gaps in supply chain the	428_1101635616561421.jpg"}]		

Project_ID	Customer_ID	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
								decision was made to transition the production process from make-on-demand 3D printing process to mass-production injection molding process. <p><p>Mold for injection molding process was made with 3-axis CNC milling process near Swayambhu and further assembly and testing at a machine shop at Balaju. The process took around 12 days to prepare fully functional mold for face shield. Then, a plastic factory in Baniyatar, that used to produce kitchenware items and was closed due to COVID was outsourced to produce frames for face shield. With injection molding, up to 1200 face shields were manu			

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								<p>12 hours. The material for frame was medical grade poly propylene - both reusable with proper disinfection and recyclable upon use.</p> <p>Crowd manufacturing of PPE components:</p> <p>A complete set of Face shield requires several other components such as transparent visor, elastic band and packaging. To meet the surging demand, production of transparent visor was outsourced to 3 laser cutting centers in Kathmandu by sharing common designs to each of them. The clear plastics were PVC, PET, APET and Polycarbonate (PC) often found as binding material in stationary shops. Elastic band was</p>			

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								made at 2 local garment workshop at Thamel. All the components were collected, cleaned, assembled, disinfected and packaged at Zener's facility at K upondole. </p><p>Distributed manufacturing and collaborative distribution network:</p><p>Protech Nepal initiative was able to produce and distribute thousands of PPEs per day using distributed local manufacturing approach and the distribution to reach different parts of Nepal was possible with their extensive network of partners like the National Innovation Center, Medical Professionals groups/societies and the medical volunteers working hard for the cause. This protech nepal developed			

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								faceshield PPE is an example that proves the effectiveness of collaborative local distributed manufacturing in resource constrained places like Nepal. <p>More on Protech Nepal Initiative: https://protechnepal.org/</p>			
90	99	ram.zenertech@gmail.com	Protective Goggles	2021-11-1	CNC, Injection Molding, Laser Cutting, Sewing	PVC, Polycarbonate (PC), Elastic band	<p>Full cover protective goggles - Clear, impact resistant and comfortable flexible fit around face.</p><p>Need for Innovation:<p><p>In times of global pandemic like the COVID-19, shortages of PPE and essential medical items are apparent. The spread of deadly virus engulfed entire world at the same time - leaving behind the conventional aid supply chain disrupted. In the first phase of COVID-19, many countries including Nepal was hit worst with the shortage of PPEs and other essential items. <p>	<p>Need for Innovation:<p><p>In times of global pandemic like the COVID-19, shortages of PPE and essential medical items are apparent. The spread of deadly virus engulfed entire world at the same time - leaving behind the conventional aid supply chain disrupted. In the first phase of COVID-19, many countries including Nepal was hit worst with the shortage of PPEs and other essential items. <p>	[{"fileName": "IMG_20200713_174820.jpg", "filePath": "/uploads/customer/99/Features/project/pdfs/Protech-nepal-org-Overview-1600301635789.pdf"}]	{"fileName": "goggle-25.jpg", "filePath": "/uploads/customer/99/Features/project/pdfs/goggle-25.jpg", "oldFileName": "goggle-25.jpg"}]	{"fileName": "goggle-25.jpg", "filePath": "/uploads/customer/99/Features/project/pdfs/goggle-25.jpg", "oldFileName": "goggle-25.jpg"}]

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Project_ID	Customer_ID	Email	Title	Date	Fabrication_Process	Material	Summary	Description	Files	Image	PDF_Document
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Manufac turer_ID	Email	Date	Compan y_Name	Passwor d	Contact Person	Phone_N umber	Docume nt_Path	Website	Compan y_Type	Address	Logo	CoverIm age	Brief_De scription	Other_S ervices	Addition al_Detail s	Delivery	Email_V erificatio n	Account _Verifica tion	Slogan	Addition al_Imag es
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Manufac turer_ID	Email	Date	Compan y_Name	Passwor d	Contact_ Person	Phone_N umber	Docume nt_Path	Website	Compan y_Type	Address	Logo	CoverIm age	Brief_De scription	Other_S ervices	Addition al_Detail s	Delivery	Email_V erificatio n	Account _Verifica tion	Slogan	Addition al_Imag es
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Manufac turer_ID	Email	Date	Compan y_Name	Passwor d	Contact Person	Phone_N umber	Docume nt_Path	Website	Compan y_Type	Address	Logo	CoverIm age	Brief_De scription	Other_S ervices	Addition al_Detail s	Delivery	Email_V erificatio n	Account _Verifica tion	Slogan	Addition al_Imag es
46c3a9a26656e927	com			EsUvvOYbvztuPe9DzpeDhjCzYbDvu10e3xglSvEjt.O					Company											
b107651fc23d1935b4c886ac41eae3ad	techzener@gmail.com	10/7/2021	Zener Technologies Pvt. Ltd.	\$2b\$10\$r0h/ij2Su2G2fO.WKn.yu00Kdxo2o/G4LJD1UVgApL4SfN7Trw1C	Ram Chandra Thapa	9851206487	{"fileName":"registration1635613399678.jpg","filePath":"/uploads/maker/b107651fc23d1935b4c886ac41eae3ad/documents/registration1635613399678.jpg"}	www.zenertech.com	Registered Company	Bhaisepati, Lalitpur	{"fileName":"Zener_logo1635613321281.jpg","filePath":"/uploads/maker/b107651fc23d1935b4c886ac41eae3ad/logo/Zener_logo1635613321281.jpg"}	{"fileName":"Buildchange_shelter_Nepal1635613487476.jpg"}	Zener Tech is a 3D Design and Additive manufacturing Tech Company, inspired by the fourth Industrial Revolution in Nepal. Zener uses the range of 3D printers and desktop manufacturing tools to offer prototyping and custom manufacturing services to the local and international customers .	[{"serviceName":"3D Scanning","materials":["Wax Models","Wooden craft","3D Faces"]},{ "serviceName":"Architecture Model Making","materials":["MDF","Plastic","Fiber","Forex","WPC"]},{ "serviceName":"3D Design","materials":["Metal","Plastic"]}]	Zener Tech is a 3D Design and Additive manufacturing Tech Company, inspired by the fourth Industrial Revolution in Nepal. Zener uses the range of 3D printers and desktop manufacturing tools to offer prototyping and custom manufacturing services to the local and international customers . 3D printing enabled manufacturing increases efficiency and reliability by reducing labour, tools and material cost. It's a clean production technology capable of making complex objects through additive	All Nepal	Verified	Verified	Transform your Ideas into Reality: From Prototyping, Model Making to Production and Fabrication.	[{"fileName":"20210925_210033.jpg","filePath":"/uploads/maker/b107651fc23d1935b4c886ac41eae3ad/MultiplePhotos/20210925_2100331635613596557.jpg"}, {"fileName":"DSC07767.JPG","filePath":"/uploads/maker/b107651fc23d1935b4c886ac41eae3ad/MultiplePhotos/DSC077671635613596557.JPG"}, {"fileName":"Buildchange_shelter_Nepal.jpg","filePath":"/uploads/maker/b107651fc23d1935b4c886ac41eae3ad/MultiplePhotos/Buildchange_shelter_Nepal1635613596558.jpg"}, {"fileName":"Cofounders of Zener Tech working on design and prototype of spare parts for camera mount.JPG","filePath":"/"}]

Manufac turer_ID	Email	Date	Compan y_Name	Passwor d	Contact_ Person	Phone_N umber	Docume nt_Path	Website	Compan y_Type	Address	Logo	CoverIm age	Brief_De scription	Other_S ervices	Additional_ Details	Delivery	Email_V erificatio n	Account_ Verifica tion	Slogan	Additional_Imag es
															<p>processes and then taking it to conventional mass manufacturing processes with ease.</p> <p>Established in 2016 Zener Technologies took pioneering steps to commercialize 3D Printers and 3D Printing Services to the public, thus making the boons of additive manufacturing accessible to everyone in Nepal. In 2018, Zener Technologies started the commercial application of 3D Scanning and Reverse Engineering in Nepal. With growing market needs, we are determined to uplift the technology sector of Nepal by introducing new and advanced tools/services.</p> <p>Zener Technologies</p>					maker/b107651fc23d1935b4c886ac41eae3ad/MultiplePhotos/Cofounders1635613596558.JPG"]}
								Page number: 25/32									Dec 17, 2021 at 02:29 PM			

Manufacturer_ID	Email	Date	Company_Name	Password	Contact_Person	Phone_Number	Document_Path	Website	Company_Type	Address	Logo	CoverImage	Brief_Description	Other_Services	Additional_Details	Delivery	Email_Verification	Account_Verification	Slogan	Additional_Images
															has been a Global Environment Facility Small Grants Programme (GEF-SGP) of the UNDP grantee and DFID UK Aid's Frontier Tech Hub #COVIDaction Local Production Local Solution awardee - 2020.					
c8b608184c1f683c305bbd73cc56bd5f	redcarvers18@gmail.com	11/1/2021	Red Carvers	\$2b\$10\$eiUcbNCokps98A4t35hkEOk0kyUwpjW7ChtdD28qWTenFSppRWyYW	Shiwansha Shrestha	9813506196			Registered Company	Balkhu						Within 20km^2	Verified	Not Verified		
dc2ea3f0ef300d50f9efb006d7cac4bc	homla5345@gmail.com	11/2/2021	Nepal Allied Industry	\$2b\$10\$anJkyLPw9S4wzQxrXYLtu.zTjbn17n9nwcIA1BeyTvJvhAQYFj.u2	Hom Lal Giri	9847035212			Registered Company	Kotihawa, Bhairahawa						All Nepal	Not Verified	Not Verified		
ff490188d149ea43e801728821411c82	designandprint.nepal@gmail.com	10/8/2021	De' Sign & Print	\$2b\$10\$aFLri3INR.GR0ewEHDvs0eBvXH5BwYkMPOwbJwvhSgpvrQymkRljo	Suroj Man Sipai	1518672		www.facebook.com/designandprint.nepal	Registered Company	Balkumari, Patan						Within 20km^2	Verified	Not Verified		

Material_ID	Material_Name	Service_ID
1	PLA	1
2	ABS	1
3	PETG	1
4	TPU Flexible	1
5	Resin SLA: Standard, Tough, Castable	1
6	MDF	2
7	HDF hardboard	2
8	Paper	2
9	Forex/PVC Foamboard	2
10	Acrylic	2
11	Textile/Synthetic Leather	2
12	Polycarbonate Sheet	2
13	PET/PVC Sheet	2
14	WPC Board(Wood Plastic Compsite)	3
15	MDF	3
16	Plywood	3
17	Styrofoam	3
18	APC Board	3
19	Thick Wood	3
20	Nylon Sheet	3
21	Nylon	4
22	Brass	4
23	Mild Steel Iron	4
24	Die Steel	4
25	Aluminium	4
26	Mild Steel Plate	5
27	Aluminium Sheet	5
28	Strainless Steel	5
29	Carbon Steel	5
30	Aluminium	5
31	GI Sheet	5
32	Copper Sheet	5
33	Brass	6
34	Copper	6
35	Cast Iron	6
36	Aluminium	6
37	Mild Steel	6
38	Copper	7
39	Brass	7
40	Silver	7
41	Gold	7
42	Wax	7
43	Special Alloys	7
44	Silicon Mold	8
45	Resin	8
46	Fiber Glass	8
47	Polypropylene(PP)	9
48	HDPE	9
49	LDPE	9
50	PVC	9
51	Rubber/Flexible	9
52	ABS	9
53	Nylon	9
54	Polycarbonate(PC)	9
55	Acrylic	9
56	PET	9
57	Mild Steel(MS)	10
58	Strainless Steel(SS)	10
59	Mild Steel(MS)	11
60	Strainless Steel(SS)	11
61	Galvanised Iron(GI)	11
62	Mild Steel Iron	12
63	Die Steel	12
64	Aluminium	12
65	PET Sheet	13
66	PETG Sheet	13
67	PP Sheet	13
68	PVC	14

Material_ID	Material_Name	Service_ID
69	Cotton	14
70	Coated Rexin	14
71	Others	14

Order_ID	Order_Type	Model_Name	Fabrication_Service	Material	Thickness	Quantity	Model_Path	Customer_ID	Manufacturer_ID	Status	Amount	Date
358	["Check Design","Request Prototype","Request Quotation"]	FSmaking - Copy.jpeg	Laser Cutting	MDF	2	10	/uploads/customer/98/models/FSmaking - Copy.jpeg	98	02c9dceb8126cdb263254613a6901a7a	Pending	100	11/12/2021

Image_Na me	Image_Pa th	Project_I D
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S.N	User_ID	Star_Ratings	Manufacturer_ID
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Service_ID	Manufacturer_ID	Material_Name
1	979d47b423c3d919101cc8c28c64a283	[{"selectedMaterial":{"Material_ID":1,"Material_Name":"PLA","Service_ID":1},"thickness":"-","costUnit":{"value":3,"label":"Minute"},"unitRate":"2.5","MoQ":"5","leadTime":"2 days"},"{"selectedMaterial":{"Material_ID":2,"Material_Name":"ABS","Service_ID":1},"thickness":"-","costUnit":{"value":3,"label":"Minute"},"unitRate":"2.5","MoQ":"5","leadTime":"2 days"}]
1	b107651fc23d1935b4c886ac41eae3ad	[{"selectedMaterial":{"Material_ID":1,"Material_Name":"PLA","Service_ID":1},"thickness":"-","costUnit":{"value":1,"label":"Gram"},"unitRate":"15","MoQ":"NA","leadTime":"2-3Days"},"{"selectedMaterial":{"Material_ID":2,"Material_Name":"ABS","Service_ID":1},"thickness":"-","costUnit":{"value":1,"label":"Gram"},"unitRate":"15","MoQ":"NA","leadTime":"2-3 Days"},"{"selectedMaterial":{"Material_ID":5,"Material_Name":"Resin SLA: Standard, Tough, Castable","Service_ID":1},"thickness":"-","costUnit":{"value":1,"label":"Gram"},"unitRate":"25","MoQ":"NA","leadTime":"2-3 Days"},"{"selectedMaterial":{"Material_ID":3,"Material_Name":"PETG","Service_ID":1},"thickness":"-","costUnit":{"value":1,"label":"Gram"},"unitRate":"15","MoQ":"NA","leadTime":"2-3 Days"},"{"selectedMaterial":{"Material_ID":4,"Material_Name":"TPU Flexible","Service_ID":1},"thickness":"-","costUnit":{"value":1,"label":"Gram"},"unitRate":"20","MoQ":"NA","leadTime":"2-3 Days"}]
2	02c9dceb8126cdb263254613a6901a7a	[{"selectedMaterial":{"Material_ID":10,"Material_Name":"Acrylic","Service_ID":2},"thickness":"8","costUnit":{"value":3,"label":"Minute"},"unitRate":"20","MoQ":"NA","leadTime":"2 Days"},"{"selectedMaterial":{"Material_ID":12,"Material_Name":"Polycarbonate Sheet","Service_ID":2},"thickness":"2","costUnit":{"value":3,"label":"Minute"},"unitRate":"20","MoQ":"NA","leadTime":"2 Days"},"{"selectedMaterial":{"Material_ID":11,"Material_Name":"Textile/Synthetic Leather","Service_ID":2},"thickness":"0.5","costUnit":{"value":3,"label":"Minute"},"unitRate":"25","MoQ":"NA","leadTime":"3 Days"}]
5	02c9dceb8126cdb263254613a6901a7a	[{"selectedMaterial":{"Material_ID":26,"Material_Name":"Mild Steel Plate","Service_ID":5},"thickness":"20","costUnit":{"value":3,"label":"Minute"},"unitRate":"100","MoQ":"NA","leadTime":"3 Days"},"{"selectedMaterial":{"Material_ID":30,"Material_Name":"Aluminium","Service_ID":5},"thickness":"12","costUnit":{"value":3,"label":"Minute"},"unitRate":"100","MoQ":"NA","leadTime":"3 Days"},"{"selectedMaterial":{"Material_ID":28,"Material_Name":"Strainless Steel","Service_ID":5},"thickness":"8","costUnit":{"value":3,"label":"Minute"},"unitRate":"100","MoQ":"NA","leadTime":"3 Days"}]
6	845a2d9e90583636c971ac3054b7f139	[{"selectedMaterial":{"Material_ID":35,"Material_Name":"Cast Iron","Service_ID":6},"thickness":"2","costUnit":{"value":2,"label":"Kg"},"unitRate":"200/kg","MoQ":"NA","leadTime":"7-10 days"},"{"selectedMaterial":{"Material_ID":37,"Material_Name":"Mild Steel","Service_ID":6},"thickness":"2","costUnit":{"value":2,"label":"Kg"},"unitRate":"200","MoQ":"NA","leadTime":"7-10 days"},"{"selectedMaterial":{"Material_ID":33,"Material_Name":"Brass","Service_ID":6},"thickness":"2","costUnit":{"value":2,"label":"Kg"},"unitRate":"1000","MoQ":"NA","leadTime":"7-10 days"}]
13	02c9dceb8126cdb263254613a6901a7a	[{"selectedMaterial":{"Material_ID":66,"Material_Name":"PETG Sheet","Service_ID":13},"thickness":"-","costUnit":{"value":3,"label":"Cubic Inch"},"unitRate":"200","MoQ":"5pc","leadTime":"3 Days"}]
13	979d47b423c3d919101cc8c28c64a283	[{"selectedMaterial":{"Material_ID":65,"Material_Name":"PET Sheet","Service_ID":13},"thickness":"-","costUnit":{"value":3,"label":"Minute"},"unitRate":"10","MoQ":"5","leadTime":"2 days"}]