

		Company Name	Code No
A	1	Abdul Ghani Mold Maker	0251
	2	Advance Tech	0001
	3	Afaq Corporation	0225
	4	Agha Plastics	0218
	5	Alao Din Die Makers	0250
	6	Al-Munawar PVC Industry	0211
	7	A.S.Mold Point	0249
	8	Auto Plastech	0248
	9	Auto Tech Industries	0256
B	10	Babas Engineering	0202
	11	Briter Engineering	0226
	12	BTS Plastics Innovation	0104
C	13	Chawla Footwear	0247
	14	Corona Automotive Parts	0244
D	15	Dimotec Engineering Services Co	0262
	16	Doctor Plastic Industry	0019
E	17	Electro Tech	0279
	18	Elegant Industries (Pvt) Ltd	0099
	19	Evergreen Plastic Inds	0021
F	20	Fabman Engineers Limited	0203
G	21	Government Technical Training Institute (TEVTA)	0181
	22	Gulfam Plastic Industry & Machinery Store	0277
H	23	Hajvery Engineering	0253
	24	Hawks Engineering	0026
	25	Hira Plastic Works	0216
	26	Honda Atlas Cars (Pakistan) Ltd	0028
	27	Hybrid Techniques	0029
I	28	Infinity Engineering (Pvt) Ltd	0084
K	29	King Plastic Industries	0209
	30	KNC International	0280
L	31	Lahore Plastic Corporation	0215
	32	Long Ford Engineering	0261
	33	Lucky Plastic Industries	0214
M	34	Majeed Sons	0229
	35	Master Engineering Co.	0275
	36	Mega Corp	0035
	37	Meraj Industries	0037

	Company Name	Code No
	38 Metal Care (Pvt) Ltd	0116
	39 Metaline Industries	0040
	40 M.G.A Industries	0217
	41 Mughal Engineering	0245
	42 Mughal Plastics Industries	0042
	43 Multitech Engineering	0262
N	44 National Plastic Industries	0086
	45 Nazir & Sons Engineering Works	0281
	46 New Global Dies & Mold Spark Erosion	0252
	47 Nextec	0243
	48 Novelty Engineers	0260
O	49 Orbit Industries	0045
P	50 Pak Electron Limited (PEL)	0046
	51 PECS Industries Pvt Ltd	0051
	52 Pak Precise Engineering Pvt Ltd	0095
	53 Plastiform	0100
	54 Plasticon Industries Pvt Ltd	0093
	55 Plasti-Kraft	0052
	56 Plas Pack	0037
	57 Precision Mates	0241
	58 Precision Systems Training Center- Lahore	0231
	59 Power Wheels	0237
Q	60 Quality Dies & Molds	0057
R	61 Rajput Fame Enterprises	0278
	62 Rakson Engineers	0081
	63 Recico	0276
S	64 Samsco Engineering	0283
	65 Saqib Engineering	0240
	66 Sazgar Engineering Works Ltd	0081
	67 Synthetic Products Enterprise (Pvt) Ltd (SPEL)	0080
	68 S.T. Engineering Services	0061
T	69 Techmen Engineering Products Manufacturers	0070
	70 Thermosole Industries Pvt Ltd	0071
	71 T.M. Enterprise	0258
V	72 Volta Dies & Moulds	0074
W	73 Workman	0246

History of the Project

Annex 41

Month/Year	Events	JICA	PITAC C/Ps	Machines/Equipment
March 2002		Consultation team No. 1 led by Mr. TAKAMA Hidetoshi arrived and the dispatch of Project Coordinator was cancelled. (24)		
April 2002				
May 2002				
June 2002				
July 2002				
August 2002			<ul style="list-style-type: none"> Mr. Hayder Ali, Mr. Shoaib Rashid, Mr. Tariq Baig went to the Philippines for training for five months.(8) Mr. Muhammad Akram Khan, G/M and Mr. Sarfraz Ahmed, P/M went to Japan for 11 days. (19) 	
September 2002	<ul style="list-style-type: none"> Project started with Mr. Muhammad Akram Khan, G/M and Mr. Sarfraz Ahmed, P/M. (15) 	<ul style="list-style-type: none"> Mr. YOSHIMATSU Hiroaki, Mold Design Expert and Mr. SAWADA Koji, CAD/CAM Network Expert arrived. (15) 		
October 2002		<ul style="list-style-type: none"> The experts started to visit Mold/Molding factories to introduce the project activities and visit markets in Lahore to survey technical environment. CAD/CAM computers, software and cutting/standard tools were prepared. Experts surveyed PITAC organization and introduce the Project Activities to PITAC staff. 		
November 2002				

Month/Year	Events	JICA	PITAC C/P's	Machines/Equipment
December 2002		Mr. YOSHIMATSU and Mr. SAWADA delivered lectures for Mold Design and CAD/CAM to PITAC staff. (20)		
January 2003		<ul style="list-style-type: none"> Mr. ISHIDA Kazuki, Project Coordinator, arrived and stationed for four months. (31) 	<ul style="list-style-type: none"> Mr. Hayder Ali, Mr. Shoaib Rashid & Mr. Tariq Baig came back from the training in the Philippines. (19) 	
February 2003		<ul style="list-style-type: none"> Mr. IDE Masaki, Mold Processing, Assembly & Trial Shot Expert arrived and stayed for two years. (11) 		
March 2003		<ul style="list-style-type: none"> The experts visited Plastics Technology Centre, Pak Swiss Training Institute, Omar Jibran, Pak-Suzuki Motor in Karachi. (18) 		
April 2003		<ul style="list-style-type: none"> Interviews for project secretaries conducted. (8) 		<ul style="list-style-type: none"> Six CAD/CAM computers arrived. (9)
May 2003		<ul style="list-style-type: none"> Ms. Sadaf Chaudhry & Ms. Shazia Anjum, Project Secretaries, joined. (1) Experts office had been changed from the PITAC administration building to the Project building. (5) Mr. SASAGO Minoru, Chief Advisor, arrived. (27) 		<ul style="list-style-type: none"> CNC Machining Center and EDM arrived from Japan. (15)
June 2003				
July 2003				<ul style="list-style-type: none"> CNC Machining Center was installed by Mr. KUSUNOKI Hideo, Makino Milling Machine Co. in eight days. (30)
August 2003	<ul style="list-style-type: none"> JCC Meeting No. 1 was presided over by Mr. Abdul Hafeez Chaudhry, Joint Secretary, MOIP. 	<ul style="list-style-type: none"> Consultation Team No. 2 led by Mr. TAKIZAWA Koichi arrived and dispatch of Project Coordinator was agreed. (18-27) 		<ul style="list-style-type: none"> CAD/CAM network was installed by Mr. ITO Akio in four days. (3) EDM was installed by Mr. EGUCHI Hiroaki, Makino Milling Machine Co. in two weeks. (5) Injection Molding Machines and CMM arrived. (15)

September 2003				<ul style="list-style-type: none"> General Manager was changed from Mr. M. Akram Khan to Mr. Muhammad Aslam. (18) 	<ul style="list-style-type: none"> Six CAD/CAM Computers arrived. (27) Four Target Molds arrived. (27)
October 2003					
November 2003					
December 2003				<ul style="list-style-type: none"> Project Manager was added to the member of JCC by the amendments to the Record of Discussions. (2) 	
Month/Year 2004				PITAC C/Ps	Machines/Equipment
January 2004			JICA	<ul style="list-style-type: none"> Mr. Tariq Baig, Mr. M. Latif & Mr. Haseeb Malik left for Japan for training for 2.5 months. (18) 	
February 2004				<ul style="list-style-type: none"> Mr. Ejaz Rasul Chaudhry, GM inaugurated. (6) 	
March 2004			Mr. HIRAO Tetsuya, Project Coordinator/SME Promoter arrived. (28)		<ul style="list-style-type: none"> Injection Machine was installed by Mr. NOGUCHI Tsutomu, Sumitomo Heavy Industry. (20) GMM was installed by Mr. ONISHI Takekazu, Mitutoyo in nine days.
April 2004					
May 2004	<ul style="list-style-type: none"> Task Force was organized to start the training courses in January 2005 and continued bi-weekly meeting. (29) 			<ul style="list-style-type: none"> Mr. Irfan Jarral, Mr. Anwar Baig, Mr. Raees Ahmed & Mr. Rashid Wasti left for Japan for training for 2.5 months. (31) 	
June 2004					
July 2004	<ul style="list-style-type: none"> Kick-off meeting for the first target mold, Multi Purpose Tray, was held. (1) 				
August 2004			<ul style="list-style-type: none"> Mr. MURA Daizo, Occupational Safety & Health expert arrived and held seven seminars in Lahore, inviting 312 people. (22) Mr. FUKUSHIMA Yuichi, Expert for Latest Technology Seminar, arrived 		
September 2004					

October 2004	<ul style="list-style-type: none"> Mid-term evaluation team led by Mr. JURU Masayoshi, arrived. A new project component "Interactions of the Project with private companies are strengthened" was added. Joint project staff meetings (Weekly Meeting) were decided to be held. (4-15) JCC No. 2 was presided over by Mr. Syed Zaheer Ali Shah, Additional Secretary, MOIP. (13) Task Force team visited Karachi for Training Needs Survey for 3 days. 	and held seminars in Lahore and Karachi, inviting 264 people from the plastic industry. (27)		
November 2004	<ul style="list-style-type: none"> JCC sub-committee meeting No. 1 was held invited representative from PPMA and PAAPAM. (7) Occupational Safety & Health committee was constituted and the first meeting was held. (9) 	<ul style="list-style-type: none"> Mr. HASHIMOTO Sadakatsu, Assembly & Trial Shot expert arrived at the Project. 		<ul style="list-style-type: none"> Two desktop & two laptop computers were purchased by PITAC.
Month/Year 2005	Events	JICA	PITAC C/Ps	Machines/Equipment
January 2005	<ul style="list-style-type: none"> The first training courses for Mold Design Basic and CAD/CAM were held. (3) Project Inaugural Ceremony was held with attendance of Mr. Jehangir Khan Tareen, Minister, MOIP and Mr. TANAKA Nobuaki, Ambassador, Embassy of Japan. (19) 	<ul style="list-style-type: none"> Mr. IDE Masaki, Mold Processing, Assembly & Trial Shot expert left the project. (10) 		
February 2005				<ul style="list-style-type: none"> Injection molding machine SH160C stopped due to electric surge. (23) Two units of Lathe Machines were installed by PITAC. (28)
March 2005	<ul style="list-style-type: none"> TUSDEC, Technical Up-gradation & Skill Development Company) was inception. (2) Kick-off meeting for the second target mold, Front Light Body, was held. 	<ul style="list-style-type: none"> Dr. SASAKI Tetsuo, Chairman, Supporting Committee & Mr. KATAOKA Tsuyoshi, Paker Seiko, arrived and stayed for two weeks for mold finishing and polishing. (20) 		<ul style="list-style-type: none"> Overhead crane was installed by PITAC. (17) Rain leakage problems continued at the workshop building.

April 2005			<ul style="list-style-type: none"> Mr. Ejaz Rasool Chaudhry, G/M resigned. (4) Mr. Syed Anwar Ali Pervaiz, G/M inaugurated. (18) PITAC labor union went strike against extension of work hours and police arrived. (5) 13 C/P visited Plastic Expo in Karachi. (12) SME section started. (20) 	<ul style="list-style-type: none"> Two Milling Machines were installed by PITAC. (5) CAD/CAM section moved to the first floor. (20) 15 units of Automatic Voltage Regulators (AVR) were installed by PITAC. (30)
May 2005		<ul style="list-style-type: none"> Mr. SHIRAHIGE Masao, Machining Center Expert, arrived for the first time and stayed for four weeks for the second target mold, front light. (10) Mr. MORI Shinichi, SME consultation, arrived & worked six weeks to improve the management of the project and PITAC. (29) Consultation team No. 3 led by Mr. SUGIHARA Takao, arrived. 		<ul style="list-style-type: none"> Gantry crane (2 tons) was procured by PITAC. (13) Shelf type dryer was installed by PITAC. (20)
June 2005	<ul style="list-style-type: none"> The first training course was held in the evening according to the demand from private sector. (20) The first visit to Model Factories was initiated for back-up and advisory services. (30) JCC meeting No. 3 was presided over by Mr. Muhammad Suleman Ghani, Secretary, MOIP. "Installation of proper maintenance system", "Multiple operators on CNC machines" were discussed. (23) 			<ul style="list-style-type: none"> PITAC site was flooded due to the heavy rain. (1) Injection Molding Machine bitten by rats was repaired by the Sumitomo Engineer. (7) The roof of the workshop was treated for leakage.
July 2005			<ul style="list-style-type: none"> Mr. MIURA Daizo, Occupational Safety & Health expert arrived and held seminars in Lahore, Gujranwala and Karachi, inviting 354 people in the industry. (22) Mr. SHIRAHIGE Masao came to Lahore for the second time to make the target mold no. 3, mouse case. (28) Mr. WADA Katsuyoshi, Management Capacity Development Expert, arrived to improve the management of PITAC in four weeks. (4) Mr. SATO Kazuchika, TQC expert, arrived and stayed for three weeks and held seminars in Lahore and 	
August 2005	<ul style="list-style-type: none"> The Project website was made and uploaded. (24) Needs survey for Plastic Mold Industry by Sidat Hayder was completed. (30) 		<ul style="list-style-type: none"> Mr. Nadeem Shahbaz, Mr. Qaiser Iqbal, Mr. Talib Hussain & Mr. M. Raza left for Japan for training for 2.1 months. (22) 	
September 2005			<ul style="list-style-type: none"> Mr. Shahzad Ayub, Mr. Naveed Aslam, Mr. Mazhar Ali, Mr. Nadeem Shahid & Mr. Safdar Yasin left for training in Japan for 2.5 months. (26) 	

October 2005	<ul style="list-style-type: none"> TQC committee was constituted and the first meeting was held. (20) 	<p>Karachi, inviting 317 people in Lahore, 82 in Karachi. (12)</p> <ul style="list-style-type: none"> JICA Vice President Mr. UEDA Yoshihisa visited the Project. (22) 	<ul style="list-style-type: none"> Dr. Farid Ahmed Malik, G/M & P/D inaugurated. (24) 	
November 2005				<ul style="list-style-type: none"> Four CAD/CAM computers arrived and the seating capacity of CAD/CAM course was increased from 8 to 11. (23)
December 2005	<ul style="list-style-type: none"> SME section started to visit 70 factories in Lahore to collect the customers data and compile a customer directory. (1) The project produced 2,500 pieces of Trays for five days for the victims of earthquake occurred on October 8, 2005. (14) The fourth target mold, telephone case was kicked off. (22) 		<ul style="list-style-type: none"> Mr. Javaid Iqbal Shaikh became acting G/M & P/D taking over Dr. Farid Ahmed Malik. (20) 	<ul style="list-style-type: none"> A transformer was stolen from PITAC and suffered from power failure for 1.5 days. (26)
Month/Year 2006	Events	JICA	PITAC C/P's	Machines/Equipment
January 2006	<ul style="list-style-type: none"> JCC meeting No. 4 was presided over by Mr. Syed Zaheer Ali Shah, Additional Secretary, MOIP. Mr. Almas Hayder, Chairman, TUSDEC attended. 	<ul style="list-style-type: none"> Mr. SHIRAHIGE Masao, Machining Center Operation and Management Expert, arrived third time for the target mold No. 3, Telephone case. (30) 	<ul style="list-style-type: none"> Mr. Safdar Yasin left for Karachi for mechanical maintenance training of injection molding machines for six weeks. (16) Mr. Shahid Ahmed and Mr. Fakhar-e-Sayyam left for Japan for training for two months. (18) 	
February 2006	<ul style="list-style-type: none"> Industrial summit was held to promote the project services to 20 executives. (28) 		<ul style="list-style-type: none"> Mr. Qaiser Iqbal left for Karachi for electrical maintenance training of the injection machines. (20) 	<ul style="list-style-type: none"> Mold Flow software was installed. (17) Machine Operations were suspended for political demonstration. (14-16)
March 2006	<ul style="list-style-type: none"> 3D Modeling seminar was held. (27) Kick-off meeting of the fifth target mold, multi-purpose stand was held. (30) 			
April 2006	<ul style="list-style-type: none"> Mr. Ahsan Siddiqui, G/M, Plastics Technology Centre, visited the project to search for collaboration with PITAC. (13) 			<ul style="list-style-type: none"> Caster of Gantry crane was replaced and became usable. (19)

May 2006	<ul style="list-style-type: none"> • The final evaluation team is planned to come. (22) • JCC meeting No. 5 is planned to be held. (30) 			
June 2006				
July 2006				
August 2006	<ul style="list-style-type: none"> • The closing ceremony of the project is planned to be held. (9) 			
September 2006	<ul style="list-style-type: none"> • The project is planned to be completed. (14) 	<ul style="list-style-type: none"> • The experts planned to leave. (13) 		

Name of the Project	The Project on Balancing and Modernization of Workshop Facilities at PITAC, Lahore		
Duration of Cooperation	September 15, 2002 to September 14, 2006		
Study Team	Final Evaluation Team		
Period of the Study	May 21 to June 1, 2006		
Division in Charge	Economic Development Division, SME Team	Staff in Charge	Mr. Yoshimura Etsuji

I Activities and Contents of the Project

The activities and contents of the Project are shown in the following Charts for Project Planning and Management.

- 1 Project Design Matrix (PDM)
- 2 Plan of Operations (PO)
- 3 Annual Plan of Operations (APO)
- 4 Technical Cooperation Program (TCP)
- 5 Annual Technical Cooperation Program (ATCP)

II Monitoring and Evaluation System

I Monitoring

The following monitoring is scheduled to be held during the cooperation period.

(1) Periodical Monitoring

The periodical monitoring is to be implemented, the contents of which are to be discussed on the occasion of regular meetings in the Project, such as Weekly Meeting by Japanese experts and C/Ps section heads & engineers and Weekly Japanese Expert Meeting.

(2) Monitoring

Monitoring will be done every six (6) months by the Project. The results will be presented to the Joint Coordinating Committee (JCC) and distributed to the organizations concerned and/or personnel involved in the Project. JCC will be held twice a year.

2 Evaluation

Final Evaluation of the Project will be conducted jointly by the two Governments through JICA and Pakistani authorities concerned during last six (6) months of the cooperation term in order to examine the level of achievement as stipulated in the R/D. JICA will dispatch the final evaluation team in May 2006. In any manner, any evaluation should be jointly implemented by both sides and the outcome should be submitted and reported at the JCC in the form of Joint Evaluation Report and are to be signed by both sides.

III Tentative Schedule for Monitoring and Evaluation

Date	Monitoring or/Evaluation and other related activities	In charge of Implementation	Reporting
March 2002	Signing of the R/D	Project Design Team Pakistani side	R/D, M/M
September 14, 2002	Commencement of the Project		
August 2003	Project Consultation	Project Consultation Team Japanese experts Pakistani C/P	
December 2003	Monitoring (1)	Japanese experts Pakistani C/P	Monitoring Report
June 2004	Monitoring (2)	Japanese experts Pakistani C/P	Monitoring Report
October 2004	Mid-term Evaluation	Mid-term evaluation Team Pakistani C/P To be confirmed by JCC members	M/M at JCC, Monitoring Report
December 2004	Monitoring (3)	Japanese experts Pakistan C/P To be confirmed by JCC members	M/M at JCC in February 2005, Monitoring Report
June 2005	Project Consultation	Project Consultation Team Japanese experts Pakistani C/P	
January 2006	Monitoring (4)	Japanese experts Pakistani C/P To be confirmed by JCC members	M/M at JCC in February 2006, Monitoring Report
May 2006	Final Evaluation	Joint Final Evaluation Team	Final Evaluation Report M/M at JCC

IV Criteria and Item for Monitoring and Evaluation

1 Criteria and Item for Monitoring

- (1) PDM (Project Design Matrix)
- (2) PO (Plan of Operations) and APO (Annual Plan of Operations)
- (3) TCP (Technical Cooperation Program) and ATCP (Annual Technical Cooperation Program)
- (4) Monitoring and Evaluation Sheet
- (5) Progress Report of Technical Cooperation Project
- (6) Others if necessary

If technology transfer does not progress as planned, the Project will study the interior/exterior factors to hamper, take necessary countermeasures and will revise the plan.

2 Criteria and Item for Final Evaluation

Criteria and Item for Final evaluation will be prepared by the Project based on the Evaluation Grid.

Progress of Activities for each Output 2006 (Output No. in the PDM and its description ;) Admin.














May 30, 2006

Progress of activities		Problems in this term												Targets and activities in the next term											
		Problems in this term												Targets and activities in the next term											
Activities	Planned	1	2	3	4	5	6	7	8	9	10	11	12	(Targets)											
	Actual	1	2	3	4	5	6	7	8	9	10	11	12	Allocation of personnel has been completed. However, some C/Ps are truant, late and abscond.											
0-1. Allocate necessary personnel as planned.	P													1) Improve C/Ps who are still truant, late and abscond.											
	A																								
0-2. Formulate plans of activities	P													Budget planning was completed. However, procurement procedures of necessary tools and equipment need to be made smoothly.											
	A													2) Improve Electric Power & Computer Networking.											
0-3. Make budget plan and execute it properly.	P													3) Improve Procurement.											
	A													(Activities plan)											
0-4. Establish and operate project management system.	P													1) Improve the personnel management through Weekly Meeting.											
	A													2) Conduct Work Attitude Evaluation by P/D & P/M.											
														3) Purchase a new transformer and make an annual service contract											

<p>Progress of technology transfer to C/P</p> <p>30 C/Ps are allocated and the technological transfer is being carried out through the four target molds. The four target molds will be completed by May 2006 and additionally the fifth target mold is going to be completed by August 2006.</p>	<p>with Computer Company.</p> <p>4) Control the procurement process by the Project.</p> <p>5) Procure measuring tools by Joint Account smoothly.</p>
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Design Section

Progress of Activities		Problems in this term	Target and Activities in next term
Activities	1 2 3 4 5 6 7 8 9		
1-1. Provide and install necessary machinery and equipment.	..... ↑	Computer systems and net working broke down for one month by Virus.	(Target) To try to reduce 25% of mold design time To master Mold flow analysis. (Activities Plan) To check C/P's drawings by themselves. To implement the standardization in PITAC. To study 3D mold design.
1-2. Operate and maintain machinery and equipment properly ↑		
(Technical capability of C/P is upgraded)			
2-1. Make Technology Transfer Plan. (Technical Cooperation Program (TCP), Annual Technical Cooperation Program (ATCP) etc.	..... ↑	The majority of private sector's desirement is to open the evening course. O/T and Incentive rule of PITAC by Law is not fare for C/Ps.	(Target) To implement the intensive training courses of beginners, basic and advance Mold Design and 2D/3D AutoCAD successfully.
2-2. Implement technology transfer to C/P following to Technology Transfer Plan. ↑		
2-3. Monitor and evaluate the result of technology transfer to the C/P. ↑		
(Technical training course and seminar)			
3-1. Identify needs through company visits. ↑		
3-2. Make plans of technical training courses and seminars. ↑		

<p>3-3. Develop training curricula and teaching materials.</p>			<p>(Activities Plan) To arrange the curricula for intensive training courses by putting themselves in customer's place.</p>
<p>3-4. Implement technical training courses and seminars.</p>			
<p>3-5. Monitor and evaluate the result of technical training courses and seminars.</p>			
<p>(Technical back up support services)</p>			
<p>4-1. Identify needs through company visits.</p>		<p>Our characteristics coming from machineries and technical skills are mainly cosmetic and middle size parts by using 3D data. In current skill level of this project, we have to select some back up support services. The range of our skill is not wide.</p>	<p>(Target) To make system of technical back up support services in Project.</p>
<p>4-2. Make plans of technical backup support services.</p>			<p>(Activities Plan) To study needs from private companies To visit the private company of model factory in Pakistan. To make C/Ps have a lot of experience more by the actual training.</p>
<p>4-3. Implement technical backup support services.</p>			
<p>4-4. Monitor and evaluate the result of technical backup support services.</p>			
<p>(Technical advisory services)</p>			
<p>5-1. Identify needs through company visits.</p>		<p>Our characteristics coming from machineries and technical skills are mainly cosmetic and middle size parts by using 3D data. In current skill level of this project, we have to select some advisory services. The range of our skill is not wide.</p>	<p>(Target) To make system of advisory services in Project.</p>
<p>5-2. Make plans of advisory services.</p>			<p>(Activities Plan) To visit the private company of model factory in Pakistan. To study needs from private companies To make C/Ps have a lot of experience more by the actual training.</p>
<p>5-3. Implement advisory services</p>			
<p>5-4. Monitor and evaluate the result of advisory services.</p>			

Activities	Progress of Activities												Problems in this term	Target and Activities in next term	
	1	2	3	4	5	6	7	8	9	10	11	12			
0-1. Allocate necessary personnel as planned.														Totally 4 C/Ps have been allocated in CAD/CAM Section in Jan. 2004. They are required to be engaged in activities of more technical matter, otherwise we cannot recover arrear of the project activities.	(Target) (Activities Plan)
0-2. Formulate plans of activities.															(Target) (Activities Plan)
0-3. Make budget plan and execute it properly.															(Target) (Activities Plan)
0-4. Establish and operate project management system.															(Target) (Activities Plan)
1-1. Provide and install necessary machinery and equipment.														Totally 16 computers and 16 UPS were installed in CAD/CAM section.	(Target) (Activities Plan)
1-2. Operate and maintain machinery and equipment properly.														There are many electric power failures. Electric Voltage is not steady. There are many virus and Network problems in CAD/CAM section.	(Target) (Activities Plan) To give more OJT Training for Computer Network System .

	1	2	3	4	5	6	7	8	9	10	11	12		
2-1. Make Technology Transfer Plan. (Technical Cooperation Program (TCP), Annual Technical Cooperation Program (ATCP) etc.													C/P should classify their technical understanding clearly (What they understand and what they do not understand) and recognize the project target seriously.	(Target) C/P should concentrate their technical activity more.
2-2. Implement technology transfer to C/P following to Technology Transfer Plan.				↑								C/P is required to be responsible and focus on their technical assignment more.	C/P should make appropriate action plan and manage to keep progress along plan. If there is some delay of progress, they should recover from it as soon as possible.
2-3. Monitor and evaluate the result of technology transfer to the C/P's.				↑								C/P works shorter at any rate. Even though PITAC Working Hour is not long enough comparing private sector.)	Technical assignment of C/P should be performed more systematically among Design, CAD/CAM and Processing section.
3-1. Identify needs through company visits.													It is required that C/P should review the all technology which has been transferred by Japanese expert more detail and master technology.	(Activities Plan) C/P should have more practical exercise of CAD/CAM by making Target Molds and find appropriate technology.
3-2. Make plans of technical training courses and seminars.				↑								C/P should keep method of Plan-Do-Check-Action and not forget to review improvement from output of activity.	(Target) To conduct training course systematically and C/P provide more service and keep customer satisfaction better.
3-3. Develop training curricula and teaching materials.				↑								More practical and appropriate content in the Training Course is required.	(Activities Plan) Further technical training and practical exercise of CAD/CAM is planned for C/P(Power Shape, Power Mill).
3-4. Implement technical training courses and seminars.				↑								All Trainees are from Lahore and it is required that more trainees should be accommodated from anyplace anywhere.	It is required that CAD/CAM training course should be linked with Processing training course.
				↑								Advanced Course is planned to be conducted.	Advanced Course is planned to be conducted.
				↑								CAD/CAM seminar (data exchange) is planned	CAD/CAM seminar (data exchange) is planned

<p>3-5. Monitor and evaluate the result of technical training courses and seminars.</p>	<p>.....↑ ↑</p>	
<p>4-1. Identify needs through company visits.</p>	<p>1 2 3 4 5 6 7 8 9 10 11 12 ↑ ↑</p>	<p>Detailed Needs Study for Technical Backup Support Service is required further. C/P should be trained more practically to reply miscellaneous needs of Technical Backup Support Service It is seemed that mostly Private Sector is not clear problems and situation which they are facing and also their future vision. It is required that Technical backup support services should be implemented more systematically and working hour of C/P should lengthen as workers in private sector, if they want to learn technology transfer and to implement technical backup support services together.</p>
<p>4-2. Make plans of technical backup support services.</p>	<p>.....↑</p>	
<p>4-3. Implement technical backup support services.</p>	<p>.....↑ ↑</p>	<p>(Activities Plan) To continue visiting private sector frequently with C/P. To implement technical backup support services as many as possible.</p>
<p>4-4. Monitor and evaluate the result of technical backup support services.</p>		<p>To provide Monitoring and Evaluation report. (Target)</p>
<p>5-1. Identify needs through company visits.</p>	<p>.....↑ ↑</p>	<p>To plan and study detailed activity for technical advisory service. To urge that C/P working hour should be lengthened and improved appropriately, if they want to learn technology transfer and to implement technical backup support services together.</p>
<p>5-2. Make plans of advisory services.</p>	<p>.....↑ ↑</p>	
<p>5-3. Implement advisory services</p>	<p>.....↑ ↑</p>	<p>(Activities Plan) To continue visiting private sector frequently</p>

5-4. Monitor and evaluate the result of advisory services.



with C/P.

To implement technical advisory services as many as possible.

To provide Monitoring and Evaluation report.

Activities	Progress of Activities												Problems in this term	Target and Activities in next term	
	1	2	3	4	5	6	7	8	9	10	11	12			
1-1. Provide and install necessary machinery and equipment.				→										There are not enough cutting tools for making Target molds. The often happening power failure (failure of transformer) causes delay of activity.	(Target) To improve problem of transformer failure. (Activities Plan)
1-2. Operate and maintain machinery and equipment properly.				.....→											(Target) (Activities Plan)
2-1. Make Technology Transfer Plan. (Technical Cooperation Program (TCP), Annual Technical Cooperation Program (ATCP) etc.														Technical communication among Design, CAD/CAM and processing should be done systematically and more smoothly. Technical countermeasure for trouble shooting should be done systematically.	(Target) Technical assignment of C/P should be performed more systematically among Design, CAD/CAM and Processing section. (Activities Plan)
2-2. Implement technology transfer to C/P following to Technology Transfer Plan.				.....→										C/P should perform closely and minutely in their technical activity. C/P should keep method of Plan-Do-Check-Action and not forget to review improvement from output of activity.	C/P should have more practical exercise of CAD/CAM by making Target Molds and find appropriate technology.
2-3. Monitor and evaluate the result of technology transfer to the C/P.				.....→										It is required that C/P should review the all technology which has been transferred by Japanese expert more detail and master technology.	

Progress of Activities		Problems in this term	Target and Activities in next term
Activities	1 2 3 4 5 6 7 8 9 10 11 12		
(Technical Training Causes) 3-1. Identify needs through company visits.		More practical training is required by trainees.	(Target) To improve content of training course to get more satisfaction from trainees. (Activities Plan) To provide training course which each trainee could have had practical and operational training in.
3-2. Make plans of technical training courses and seminars.→ ↑		
3-3. Develop training curricula and teaching materials.→ ↑		
3-4. Implement technical training courses and seminars.→ ↑		
(Technical Backup Support Services) 4-1. Identify needs through company visits.			(Target) To continue needs survey of private sector more. To plan and study detailed activity for technical backup support service. (Activities Plan) To continue visiting private sector frequently with C/P. To implement technical advisory services as many as possible. To provide processing service for PITAC's
4-2. Make plans of technical backup support services.			
4-3. Implement technical backup support services.	↑		
4-4. Monitor and evaluate the result of technical backup support services.			

<p>(Advisory services)</p> <p>5-1. Identify needs through company visits.</p>		<p>Technical advisory service has not been prepared systematically yet.</p>	<p>pending orders.</p> <p>(Target)</p> <p>To continue needs survey of private sector more.</p> <p>To plan and study detailed activity for technical advisory service.</p> <p>(Activities Plan)</p> <p>To continue visiting private sector frequently with C/P.</p> <p>To implement technical advisory services as many as possible.</p>
<p>5-2. Make plans of advisory services.</p>			
<p>5-3. Implement advisory services</p>			
<p>5-4. Monitor and evaluate the result of advisory services.</p>			

<p>3-4. Implement technical training courses and seminars.</p>	<p>.....↑</p>	<p>.....↑</p>	<p>To improve the environment of assembly area more.</p>
<p>3-5. Monitor and evaluate the result of technical training courses and seminars</p>	<p>.....↑</p>	<p>.....↑</p>	<p>(Target) Implementation of backup support services. (Activities Plan) To study needs from private companies</p>
<p>(Technical Backup Support Services) 4-1. Identify needs through company visits.</p>	<p>.....↑</p>	<p>.....↑</p>	<p>We have still three incomplete Target molds. Then, our priority is to make all Target molds complete as transferring the technology.</p>
<p>4-2. Make plans of technical backup support services</p>	<p>.....↑</p>	<p>.....↑</p>	<p>To visit the private company of model factory in Lahore.</p>
<p>4-3. Implement technical backup support services</p>	<p>.....↑</p>	<p>.....↑</p>	
<p>4-4. Monitor and evaluate the result of technical backup support services</p>	<p>.....↑</p>	<p>.....↑</p>	
<p>(Advisory services) 5-1. Identify needs through company visits.</p>	<p>.....↑</p>	<p>.....↑</p>	<p>(Target) Implementation of advisory services. (Activities Plan) To study needs from private companies</p>
<p>5-2. Make plans of technical advisory services</p>	<p>.....↑</p>	<p>.....↑</p>	<p>We have still three incomplete Target molds. Then, our priority is to make all Target molds complete as transferring the technology.</p>
<p>5-3. Implement technical advisory services</p>	<p>.....↑</p>	<p>.....↑</p>	<p>To visit the private company of model factory in Lahore.</p>
<p>5-4. Monitor and evaluate the result of technical advisory services</p>	<p>.....↑</p>	<p>.....↑</p>	

Progress of Activities		Problems in this term						Target and Activities in next term
Activities	1	2	3	4	5	6		
1-1. Provide and install necessary machinery and equipment.	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	(Target) (Activities Plan) It has finished all the plans already.
1-2. Operate and maintain machinery and equipment properly.	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	(Target) Cp must perform operational based on an Instructions manual. (Activities Plan) Daily check is performed on the operation day of an injection molding machine and an Accessory based on a check sheet. A check result is recorded. The rust and detailed sand protects by cleaning facility.
2-1. Make Technology Transfer Plan. (Technical Cooperation Program (TCP), Annual Technical Cooperation Program (ATCP) etc.	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	(Target) (Activities Plan) The trial of the target moulds 4 and 5 is performed.
2-2. Implement technology transfer to C/P following to Technology Transfer Plan.	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	(Target) (Activities Plan) The trial of the target moulds 4 and 5 is performed.
2-3. Monitor and evaluate the result of technology transfer to the C/P.	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	..... ↑	(Target) (Activities Plan) The case study of troubleshooting is performed.

	Progress of Activities	Problems in this term	Target and Activities in next term
	<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p>		
<p>Activities</p> <p>(Technical Training Causes)</p> <p>3-1. Identify needs through company visits.</p>	<p>.....→</p> <p>.....→</p>	<p>None</p>	<p>(Target)</p> <p>(Activities Plan)</p> <p>None</p>
<p>3-2. Make plans of technical training courses and seminars.</p>	<p>.....→</p> <p>.....→</p>	<p>The name of a training course was changed.</p> <p>The basic course was changed into the beginners' class course.</p> <p>Advance course was changed into the basic course</p>	<p>(Target)</p> <p>(Activities Plan)</p> <p>All plans were carried out</p>
<p>3-3. Develop training curricula and teaching materials.</p>	<p>.....→</p> <p>.....→</p>	<p>There are few advance courses as three participants.</p> <p>The text of Advance was created newly.</p>	<p>(Target)</p> <p>(Activities Plan)</p> <p>All plans were carried out</p>
<p>(Technical Backup Support Services)</p> <p>4-1. Identify needs through company visits.</p>	<p>.....→</p>	<p>Since the trial and training course of a target mould are performed, there is no remaining power. Production of a multipurpose tray was practiced as a substitute.</p>	<p>(Target)</p> <p>(Activities Plan)</p> <p>None</p>
<p>(Advisory services)</p> <p>5-1. Identify needs through company visits.</p>	<p>.....→</p>	<p>Mr Irfan jarral visited the model company</p> <p>There was no request until now.</p>	<p>(Target)</p> <p>(Activities Plan)</p> <p>None</p>

<p>3-4. Implement technical training courses and seminars.</p>	<p>.....></p>	
<p>3-5. Monitor and evaluate the result of technical training courses and seminars.</p>	<p>.....></p> <p>.....></p>	
<p>4-1. Identify needs through company visits.</p>	<p>.....></p>	<p>There is no demand from the model factory chosen until now.</p> <p>C/P does not still have the capability to perform this.</p>
<p>4-2. Make plans of technical backup support services.</p>	<p>.....></p>	<p>(1)The private sector required digitizer for the duplicate of product form.</p> <p>(2)Do they ask for service of Mold dimension measurement in order to realize the precision of a product dimension?</p> <p>(3)The measurement accuracy of C/P is still bad.</p>
<p>4-3. Implement technical backup support services.</p>	<p>.....></p>	
<p>4-4. Monitor and evaluate the result of technical backup support services.</p>	<p>.....></p>	
<p>5-1. Identify needs through company visits.</p>	<p>.....></p>	<p>(Target) C/P Measurement skill is improved (Activities Plan)</p>
<p>5-2. Make plans of advisory services.</p>	<p>.....></p>	<p>(1)C/P improve measurement technology through part dimension measurement of a target Mold.</p>
<p>5-3. Implement advisory services</p>	<p>.....></p>	
<p>5-4. Monitor and evaluate the result of advisory services.</p>	<p>.....></p>	

Annex43-8 Progress of Activities for each Output (Jan. 2006 ~ May 2006)

SME Promotion

May 30, 2006

Progress of Activities		Problems in this term	Target and Activities in next term
Activities	1 2 3 4 5 6 7 8 9 10 11 12		
6-1 Make plans of promotion in the private sector to increase the Project's exposure and improve the quality of services.			<p>(Target)</p> <ul style="list-style-type: none"> 1. Improve and expand Training Courses 2. Receive an order from private sector for back-up services
6-2 Implement the promotional activities (Company visits, seminars, pamphlets, homepages, and data base)		<ul style="list-style-type: none"> 1. Need to improve Training Courses in terms of quality, area and field. 2. A quotation has been sent to Shield for Teether mold, however, the order for making mold has not been received as a back-up service yet from private sector. 	<p>(Activities Plan)</p> <ul style="list-style-type: none"> 1. Training Courses <ul style="list-style-type: none"> - Manage Post Training Evaluation - Invite trainees from out-of-Lahore. - Complete Training Course Pamphlet 2. Back-up Services <ul style="list-style-type: none"> - Elaborate cooperation with IED. - Offer to customers. - Quick Response to customers 3. Promotions <ul style="list-style-type: none"> - Update the website once a month - Compile Customer Directory
6-3 Monitor and evaluate the results of the promotional activities			

Annex44-1 Achievement of Outputs (from Jan. 2006 to May 2006)

(*Output* must be the same as the description in PDM) Admin.

Outputs	Indicators	Targets in this term	Achievements in this term	Reasons if planned targets were not satisfied
0. The project operation unit is established for making advanced plastic molds.	Number and capacity of staff, budget and settlement of accounts, number of committees and meetings, number of cases in publicity.	Improvement of Personnel Management Workshop & Computer Network	Some C/Ps are still truant, late and absent. Workshop has been re-painted. Annual Maintenance Contract for computer is under negotiation.	Delay in changing By-Laws. Necessary countermeasures
	Implementation of JCC meeting Weekly Meeting,	Handover responsibilities & equipment	JCC meetings were held in January and May 2006. Weekly Meeting has been held regularly.	Request MOIP, TUSDEC to revise PITAC By-Laws. Improve Project Management through weekly meeting and Work Attitude Evaluation.
				Impact (expected/unexpected)

Achievement of Outputs (from Jan.2006 to May.2006)

Design Section

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't been satisfied
1. The necessary machinery and equipment are provided, installed, operating and maintained properly.	1-1.Contents and condition of machinery and equipment. 1-2.Route to get spare parts and situation to secure spare parts.	To install 1 2 Auto CADs more To install the Mold Flow soft ware.	<ul style="list-style-type: none"> 12 Auto CADs for trainees of training course were installed in January. The Mold Flow soft ware was installed in February. 	
2. Technical capability of the counterpart personnel (C/P) is upgraded.	2-1.Assessment by the Japanese experts. 2-2.Number and technical level of achieved target products. 2-3.Manuals, textbooks and developed.	<p>To transfer the basic of mold design by lecture for new comers completely.</p> <p>To transfer the technology by practical training through 3 target molds as follows</p> <ol style="list-style-type: none"> 1. Mouse Cover 2. Telephone Case 3. Multi-purpose Stand 	<ul style="list-style-type: none"> C/Ps completed mold design and drawings of 5th target mold Multi-purpose Stand in March. Mr.Tariq arranged the kick off meeting of 5th target mold in March. Modification of the third target mold (Mouse cover) after trial in March, April. Modification of the fourth target mold (Telephone cover) after trial in May. All member attended Demonstration of Mold flow software by Trojan in April 27. 	
3. Technical training courses and seminars are implemented systematically.	3-1.Number of training courses 3-2.Number of training courses participants.	<p>To implement the mold design training course</p> <p>To start 2 new courses in Design section. As follows</p> <ol style="list-style-type: none"> 1. Mold Design Beginners training course 2. 2D/3D AutoCAD training course 	<ul style="list-style-type: none"> 1st Beginners training course (45Hrs,Evening time,3 weeks) was held from 19th of December 2005 . Number of Participants is 6. 3rd Basic training course (45Hrs,Evening,3 weeks) was held from 23rd of January. Number of Participants is 8. 1st 2D/3D AutoCAD training course (45Hrs, Morning,4weeks) was held from 6th of February. Number of participants is 9. 3rd Advance training course (45Hrs,Evening time,3weeks) was held from 13th of March. Number of Participants is 8. 	

<p>4. Technical backup support services are implemented systematically.</p>	<p>4-1. Number of mold designs and their clients. 4-2. Number of implemented trial prototypes and their clients.</p>	<p>Preparation of making plans through company visit</p>	<ul style="list-style-type: none"> • 2nd 2D/3D AutoCAD training course (45Hrs, Evening, 3 weeks) was held from 17th of April. Number of Participants is 10. • Total 5 times Training course in Mold Design. Section and 41 participants in this term. • Curricula and Textbooks were completed for the Beginners, Basic, advance Mold Design training course and 2D/3D AutoCAD training course. • We can not implement Technical back up support services in this term. • We chose 1 private company as model factory for back up support service on Jun 2005. Then visited and discussed about their problem and requirement two times. • We chose 2 private companies as model factory for back up support service on Jun 2005. Then visited and discussed about their problem and requirement on January • We implemented 1 technical advisory services in this term. 	<p>We concentrated on designing Target mold and implementing training course successfully. Not enough Engineer power, experience and knowledge .</p>
<p>5. Technical advisory services are implemented systematically.</p>	<p>5. Number of implemented technical advisory services and their clients.</p>	<p>Preparation of making plans through company visit</p>	<p>We concentrated on designing Target mold and implementing training course successfully. Not enough Engineer power, experience and knowledge .</p>	

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't been satisfied
0. The project operation unit is established for making advanced plastic molds.	0. Number and capacity of staff, budget and settlement accounts, number of committees and meetings, number of cases in publicity.		Totally 4 C/P have been allocated in CAD/CAM Section in Jan. 2004. Two of them work for CAD/CAM Training Course, and others works for Back-up Support Service and making Target Mold.	
1. The necessary machinery and equipment are provided, installed, operated and maintained properly.	1-1.Contents and condition of machinery and equipment. 1-2.Route to get spare parts and situation to secure spare parts.	It has been planned that 4 more UPS are installed for CAD/CAM computers.	Totally 16 computers and 16 UPS were installed in CAD/CAM section.	
2. Technical capability of the counterpart personnel (C/P) is upgraded.	2-1.Assessment by the Japanese experts. 2-2.Number and technical level of achieved target products. 2-3.Manuals, textbooks and developed.	The following Technology Transfer has been planned according to ATCP. CAD/CAM for Target Mold (Desk-Top Telephone and Multi-Purpose Stand)	Applied operation of Cadeucus for CAD and CraftMill, Neosolid for CAM has been practiced. CAD / CAM for Target Mold (Desk-Top Telephone and Multi-Purpose Stand) is completed. More application of PowerShape for CAD and PowerMill for CAM has been practiced. Application of Data exchange between PowerShape and PowerMill has been practiced. More application of 3D Modeling by PowerShape has been practiced.	It is required that C/P should review the all technology which have been transferred by Japanese expert more detail and master technology. It is required that C/P should concentrate assignment more and reduce technical mistakes. C/P is required to be engaged to technical assignment more. (C/P works shorter at any rate. Even though PITAC Working Hour is not long enough comparing private sector.) C/P should understand the project target and objective and seriously recognize the priority and feasibility of technical activity.

<p>3. Technical training courses and seminars are implemented systematically.</p>	<p>3-1. Number of training courses and their participants. 3-2. Number of training courses and their participants.</p>	<p>4 CAD/CAM Training Course has been planned to be conducted.</p>	<p>The following Training Course had been conducted. 1) 3D CAM Training Course (1/16-2/3, 2006) 2) 3D CAD Training Course (4/3-4/28, 2006) 3) 3D CAM Training Course (5/1-5/19, 2006) 4) 3D CAD/CAM Advance Training Course (5/22-6/9, 2006) Assessment of CAD/CAM Training Course is conducted. Instruction Manual for 3D CAD/CAM Advance Training Course is made.</p>	<p>It is required that C/P provide more service and keep customer satisfaction better.</p>
<p>4. Technical backup support services are implemented systematically.</p>	<p>4-1. Number of mold designs and their clients. 4-2. Number of implemented trial prototypes and their clients.</p>	<p>Technical backup support services are implemented systematically as many as possible.</p>	<p>3D Modeling and CAM-DATA for mold of Shampoo Bottle ordered by PITAC had been completed and all Data was handed over processing section.</p>	<p>It is required that Technical back-up support services should be implemented more systematically.</p>
<p>5. Technical advisory services are implemented systematically.</p>	<p>5. Number of implemented technical advisory services and their clients.</p>	<p>Technical advisory services are implemented systematically as many as possible.</p>	<p>The following Technical advisory services had been implemented. 1) 1-number of Technical advisory services from Infinity Engineering was made. (3/13, 2006) 2) 1-number of Technical advisory services from Chimax Engineering was made. (4/13, 2006) 3) 1-number of CAD/CAM Seminar was conducted. (3/27, 2006)</p>	<p>It is required that Technical advisory services should be implemented more systematically.</p>

Apr. 20, 2006

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't been satisfied
1. The necessary machinery and equipment are provided, installed, operated and maintained properly.	1-1.Contents and condition of machinery and equipment. 1-2.Route to get spare parts and situation to secure spare parts.	Installation and adjustment of main machinery. To implement periodical machinery maintenance.	Necessary Cutting Tools for making of Target Mold (Desk-Top Telephone and Multi-purpose Stand) have been purchased in March 2006. Electrical maintenance training was provided for C/P. Miscellaneous manuals for CNC machinery were provided.	The often happening power failure causes delay of mold processing for Target Mold.
2. Technical capability of the counterpart personnel (C/P) is upgraded.	2-1. Assessment by the Japanese experts. 2-2.Number and technical level of achieved target products. 2-3. Manuals, textbooks and developed.	The following Technology Transfer has been planned according to ATCP. Mold Processing for Target Mold (Desk-Top Telephone, Multi-Purpose Stand)	Mold Processing for Target Mold (Mouse Cover, Desk-Top Telephone) is completed.	C/P should understand the project target and objective and seriously recognize the priority and feasibility of technical activity. Technical communication among Design, CAD/CAM and processing should be done systematically and more smoothly. C/P should perform closely and minutely in their technical activity.
3. Technical training courses and seminars are implemented systematically.	3-1.Number of training courses and their participants. 3-2.Number of training courses and their participants.	It has been planned that 3 Mold Processing Training Course (Machining Center) are conducted.	The following Training Course had been conducted. 1) Machining Centre Training Course (2/13-3/10, 2006) 2) Conventional Machine Training Course (3/27-4/17, 2006) 3) EDM Shinker & Wire Cut Training Course (5/2-5/26, 2006)	It is required that C/P provide more service and keep customer satisfaction better.

<p>4. Technical backup support services are implemented systematically.</p>	<p>4-1. Number of mold designs and their clients. 4-2. Number of implemented prototypes and their clients.</p>	<p>Technical backup support services are implemented systematically as many as possible.</p>	<p>Processing for Shampoo Bottle mold ordered by PITAC had been completed.</p>	<p>Monitoring and Evaluation for Technical backup support services should be provided.</p>
<p>5. Technical advisory services are implemented systematically.</p>	<p>5. Number of implemented technical advisory services and their clients.</p>	<p>Make plans of technical advisory services.</p>	<p>Preparation of Questionnaire and plan for the provision of Technical advisory services.</p>	

Annex44-5 Achievement of Outputs (from Jan. 2006 to May. 2006)

Assembly

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't be satisfied
<p>1. The necessary machinery and equipment are provided, installed, operated and maintained properly.</p>	<p>1-1. Contents and condition of machinery and equipment. 1-2. Route to get spare parts and situation to secure spare parts.</p>	<p>To implement operational and periodical maintenance of machinery. Elaborate maintenance records and operational records for machinery.</p>	<p>• Cylinder of Argon Gas for Yozo system welding equipment was prepared in March.</p>	
<p>2. Technical capability of the counterpart personnel (C/P) is upgraded.</p>	<p>2-1. Assessment by the Japanese experts. 2-2. Number and technical level of achieved target products. 2-3. Manuals, textbooks and developed.</p>	<p>To Implement technology transfer to C/P through 3 target molds as bellows 1. 3rd target mold (i.e., Mouse Cover Upper & Lower 2. 4th target mold (i.e., Telephone Cover) 3. 5th target mold (i.e. Multi-purpose Stand)</p>	<p>• The training of counterparts is continued through making the target mold • Fitting and assembly of 3rd target mold (i.e., Mouse Cover Upper & Lower) was completed in April • Fitting and assembly of 4th target mold (i.e., Telephone Cover) was carried out 1st trial • The 5th target mold (i.e. Multi-purpose Stand) is well in progress. • 4 C/P were trained welding by using Yozo system welding equipment in March.</p>	
<p>3. Technical training courses and seminars are implemented systematically.</p>	<p>3-1. Number of training courses and their participants. 3-2. Number of training courses and their participants.</p>	<p>Develop training curricula and teaching materials.</p>	<p>• 3rd Polishing Training course (30Hrs, Day time 1 week) was held in Jun. Number of participants was 4. • Totally one times Training courses and 4 participants in Assembly section. In this term</p>	<p>The technical level of counterparts still needs more training.</p>

<p>4. Technical backup support services are implemented systematically.</p>	<p>4-1. Number of mold designs and their clients. 4-2. Number of implemented trial prototypes and their clients.</p>	<p>Make plans of technical backup support services.</p>	<p>Preparation of Questionnaire and plan for the provision of Technical backup support services.</p>	<p>· 4 of 5 members are new C/Ps who joined in December 2004 Their experiences are not enough</p> <ul style="list-style-type: none"> · The technical level of counterparts still needs more training. · We concentrated on completing target molds and implementing training course successfully.
<p>5. Technical advisory services are implemented systematically.</p>	<p>5. Number of implemented technical advisory services and their clients.</p>	<p>Make plans of technical advisory services.</p>	<p>Preparation of Questionnaire and plan for the provision of Technical advisory services.</p>	<p>· 4 of 5 members are new C/Ps who joined in December 2004 Their experiences are not enough.</p> <ul style="list-style-type: none"> · The technical level of counterparts still needs more training. · We concentrated on completing target molds and implementing training course successfully.

Achievement of Outputs (Jan. ~ June2006)

Trial Shot

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't be satisfied
1. The necessary machinery and equipment are provided, installed, operated and maintained properly.	1-1.Contents and condition of machinery and equipment. 1-2.Route to get spare parts and situation to secure spare parts.	1.To implement operational and periodical maintenance of machinery. 2. Elaborate maintenance records and operational records for machinery.	(1) We decided the check item of an injection molding machine. A machine is operated and daily check is performed. (2) The rat was captured continuously. (3) The rack for keeping the Mold was installed. (4) The floor of a workshop was repainted.	
2. Technical capability of the counterpart personnel (C/P) is upgraded.	2-1. Assessment by the Japanese experts. 2-2.Number and technical level of achieved target products. 2-3. Manuals, textbooks and developed.	1. Revise technology transfer plan. 2. Implement technology transfer to C/P following the TCP. In order to gain the level that C/P is taught technology and skill in Technical training course	1. In order to improve the troubleshooting capability of a product defect, a lecture was given on the upper level about the following item.(1)Injection molding Materials (2)Shrinkage,(3)The conventional defects of molding.2. Mr.Safdar yasin and Mr Qaisar Iqbal mastered the maintenance technology of a injection molding machine at "NAM ENGINEERING PVT" 3. We performed the trial shot of injection molding using target mold 3 and target mold 4. They are a mouse cover and a telephone cover.	
3.Technical training courses and seminars are implemented systematically.	3-1.Number of training courses and their participants. 3-2.Number of training courses and their participants.	Make plans of technical training courses and seminars. Develop training curricula and teaching materials.	"BASIC" of training course opened the second and the third. "ADVANCE" of training course opened the second and the third. The name of "BASIC" training course was changed into "BEGINNER" training Course. The name of "ADVANCE" training Course was changed	

			<p>into "BASIC" training course. To Injection molding BEGINNER course intensive course was made.</p>	
<p>4. Technical backup support services are implemented systematically.</p>	<p>4-1. Number of mold designs and their clients. 4-2. Number of implemented prototypes and their clients.</p>	<p>Make plans of technical backup support services.</p>	<p>None (1) Backup service of this section was not able to be performed.</p>	<p>(1) Priority was given to completion of the target mould which is behind.</p>
<p>5. Technical advisory services are implemented systematically.</p>	<p>5. Number of implemented technical advisory services and their clients.</p>	<p>Make plans of technical advisory services.</p>	<p>None (1) Technical advisory service of this section was not able to be performed.</p>	<p>(1) The private enterprises which need our service did not appear.</p>

Achievement of Outputs (Jan. ~June.2006)

CMM Section

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't been satisfied
1. The necessary machinery and equipment are provided, installed, operating and maintained properly.	1-1.Contents and condition of machinery and equipment. 1-2.Route to get spare parts and situation to secure spare parts.	Operate and maintain CMM properly	(1.)Daily check and cleaning were performed and the machine performance was maintained. (2.)Since the termite occurred, the tile of a floor was stripped and the termite was exterminated. The tile was stuck on floor newly.	
2. Technical capability of the counterpart personnel (C/P) is upgraded.	2-1.Assessment by the Japanese experts. 2-2.Number and technical level of achieved target products. 2-3.Manuals, textbooks and developed.	To transfer the technology by practical training	(1.)Mr.Nadeem Shahbaz taught measurement technology to Mr. Irfan Jarral. (2).Dimension measurement of the mold parts and products was repeated using CMM. (3.)Measurement accuracy was raised by carrying out repeat measurement. (4) When the error of measurement is found,,the action rule which should be taken was decided.	
3. Technical training courses and seminars are implemented systematically.	3-1.Number of training courses and their participants. 3-2.Number of training courses and their participants.	Improve C/P/S skill with practical training.	1).Dimension measurement of the mold parts and products was repeated using CMM. Target Mold 3,4,5 2.)Measurement accuracy was raised by carrying out repeat measurement.	(1)The plastics Mold industry has not held CMM yet. (2)The text for a training course was already created.
4. Technical backup support services are implemented systematically.	4-1.Number of mold designs and their clients. 4-2. Number of implemented trial prototypes and their clients.	Improve C/P/S skill with practical training.	1).Dimension measurement of the mold parts and products was repeated using CMM. 2.)Measurement accuracy was raised by carrying out repeat measurement.	There is no demand from the model factory chosen until now. C/P does not still have the capability to perform this.

<p>5. Technical advisory services are implemented systematically.</p>	<p>5.Number of implemented technical advisory services and their clients.</p>	<p>Improve C/P/S skill with practical training.</p>	<p>1.) Dimension measurement of the mold parts and products was repeated using CMM. 2.) Measurement accuracy was raised by carrying out repeat measurement.</p>	<p>There is no demand from the model factory chosen until now. C/P does not still have the capability to perform this.</p>
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Achievement of Outputs (from Jan.2006 to May 2006)

SME Promotion

May 30, 2006

Outputs	Indicators	Target in this term	Achievements in this term	Reasons if planned targets wouldn't been satisfied
6. Interactions of the Project with private companies are strengthened.	6-1.No of customers 6-2.Number of companies on data base	<ol style="list-style-type: none"> 1. Improvement of Training Courses 2. Operation of Seminars 3. Operation of Back-up & Advisory Services 4. Company visits & compiles a customer directory. 5. Updating of Website 	<ol style="list-style-type: none"> 1. 35 courses were conducted until March 2006 for 288 trainees. 2. Project Tour and 3D Modeling Seminar were conducted. 3. Advisory services have been conducted with model factories. Back-up services are conducted mainly for the order PITAC had received. 4. 72 companies were visited to collect basic data. 5. Project website was uploaded in August 2005 and updated monthly. Monthly access is 85. 	<p>1. Successful. Need to expand the customers and improve the courses.</p> <p>2. Successful</p> <p>3. It takes a lot of time to process inquiries. Need to improve the methods with IED.</p> <p>4. Customers directory should be compiled in the next term.</p>

Annex 45 List of Attendance of the Discussions

Member of Evaluation Team

(1) Pakistani Team

- 1) Mr. Javaid Iqbal Sheikh : Acting General Manager/Project Director
Pakistan Industrial Technical Assistance Centre
(PITAC)
- 2) Mr. Muhammad Ajmal : Deputy Chief, Planning Commission
- 3) Mr. Zafar Iqbal : Economic Affairs Division (EAD), Ministry of
Finance, Economic Affairs and Statistics
- 4) Mr. Maher Sher Muhammad : Deputy Secretary, Ministry of Industries,
Production and Special Initiatives (MOIP&SI)
- 5) Mr. Hashim Hussain : Assistant Chief, MOIP&SI
- 6) Col. Syed Anwar Ali Pervez : General Manager, Technology Upgradation and
Skill Development Company (TUSDEC)
- 7) Syed. Mehmood Ghaznavi : President, Pakistan Plastic Manufacturers
Association (PPMA)
- 8) Mr. Razak Ahmad : Chairman, Pakistan Association of Automotive
Parts and Accessories Manufacturers
(PAAPAM)
- 9) Mr. Numan Siddiqui : Senior Manager Marketing, PITAC
- 10) Mr. Riaz Ahmad Mahmood : Manager Accounts, PITAC
- 11) Mr. Sarfraz Ahmad : Project Manager, PITAC

(2) Japanese Team

- 1) Mr. Takeshi NAKANO : Leader
Senior Assistant to the Director General,
Economic Development Department, JICA
- 2) Dr. Tetsuo SASAKI : Technical Evaluation
Chairman of Advisory Committee for the
Project
- 3) Ms. Chikako YAMAUCHI : Training Planning
Chief, Operation Department, the Material
Process Technology Centre

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| 4) | Mr. Etsuji YOSHIMURA | : Evaluation Management
Chief, Small and Medium Enterprise Team,
Group 1, Economic Development Department,
JICA |
| 5) | Mr. Jun IKEDA | : Evaluation Analysis
General Manager, UNICO International
Corporation |

Member of the Project Teams

(1) JICA experts

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|----|-------------------------|---------------------------------------|
| 1) | Mr. Minoru SASAGO | : Chief Advisor |
| 2) | Mr. Tetsuya HIRAO | : SME Promoter/Project Coordinator |
| 3) | Mr. Hiroaki YOSHIMATSU | : Expert, Mould Technology |
| 4) | Mr. Sadakatsu HASHIMOTO | : Expert, Mould Assembly & Trial Shot |
| 5) | Mr. Koji SAWADA | : Expert, CAD/CAM Network |

(2) PITAC counterparts

- | | | |
|-----|-------------------------|--------------------------------------|
| 1) | Mr. Javaid Iqbal Shaikh | : Engineer, Project Director, Acting |
| 2) | Mr. Sarfraz Ahmad | : Engineer, Project Manager |
| 3) | Mr. Hayder Ali | : Engineer, Administration |
| 4) | Mr. Tariq Baig | : Designer, Mould Design |
| 5) | Mr. Mazhar Ali | : Engineer, Mould Design |
| 6) | Mr. Shoaib Rashid | : Engineer, CAD/CAM/Assembly |
| 7) | Mr. Nadeem Shahid | : Engineer, Processing |
| 8) | Mr. Fakhar-e-Sayyam | : Assistant Foreman, Processing |
| 9) | Mr. Latif Awan | : Assistant Foreman, Assembly |
| 10) | Mr. Hafiz Samad | : Assistant Foreman, Assembly |
| 11) | Mr. M. Ahmad Raza | : Assistant Foreman, Assembly |
| 12) | Mr. Talib Hussain | : Technician, Assembly |
| 13) | Mr. Rana M. Raza | : Technician, Assembly |
| 14) | Mr. Muhammad Irfan | : Engineer, Injection/QAQC |
| 15) | Mr. Akhlaque Ahmad | : Engineer, Injection |
| 16) | Mr. Nadeem Shehbaz | : Assistant Foreman, QA/QC |