Project Design Matrix (PDM$_0$)

Project name: The quality Soybean Seed Multiplication and Training Project | Project Site: East Java Province | ANNEX 1

Target Group: Staff of BBI (Malang), BPSB (Surabaya), BPSB Branch(Malang), Model BBU(Pasuruan) and Model SPC(Jombang), and key seed growers

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
I .Overall Goal The production of soybean increases in East Java	1.The yield of soybean is increased to 1.6 t / ha	1. Results of post-project evaluation	1.Soy bean market price is profitable to farmer in comparison with other crops. 2. Effective agricultural policy for soybean production is implemented continuously..
II . Project Purpose The multiplication system of high quality Soybean Seed is strengthened in East Java.	1. The rate of high quality soybean seeds for reproduction is increased	1.Results of post-project evaluation conducted through the survey team dispatched from Japan or by the JICA Indonesia Office	1. Soybean production farmer's skills are improved. 2. The facilities of BBUs and SPCs are improved. 3. Soybean producers trust the certified seed. 4. Good varieties of soybean are developed and extended
III . Outputs 1. High-quality seeds are produced 2.Technical skills of seed production and management are improved 3. Technical skills of seed inspection are improved 4. The training system is strengthened	1-1 The uniformity of FS at the BBI is improved 1-1-1. The range of maturity in one variety is within two days 1-1-2. The number of hilum-types in one variety is one 1-2 The germination rate of FS at the BBI is more than 90% 1-3 The percentage of the normal seeds in FS is more than 85% 1-4 The germination rate of SS at the model BBU is more than 85% 1-5 The percentage of the normal seeds in SS at the model BBU is more than 80% 2-1 The yield of FS at the BBI is more than 1.5 t /ha 2-2 The yield of SS at the model BBU is more than 1.5 t /ha 2-3 The yield of ES by the model seed growers is more than 1.5 t /ha 3-1 More than 80% of the laboratory inspectors for soybean seeds at the BPSB master the practical inspection techniques 3-2 More than 80% of the field inspectors for soybean seeds at the BPSB master the practical inspection techniques 3-3 The number of useful inspection items is increased at BPSB ; 10 in the laboratory inspection and 2 in the field inspection 4-1 The total number of trainees is more than 600 4-2 The total number of training courses is more than 30	1.Mission report, periodical project report, improved manuals, results of experiments, other printed materials and records 2. Achievement of training & follow-up survey of trainees 3. Results of project evaluation survey	1. Sufficient financial support for BPSB, BBI, BBU, SPC is given. 2. The seed production and inspection technical staffs are disposed long in the project for the seed production system to take a root in Indonesia. 3. The term of validity of soybean seed certificate is lengthened. 4. The production and distribution of FS, SS and ES on the basis of demand and supply are promoted.
IV.Activities 1-1 The experts and the counterparts purify FS of major varieties 1-2 The counterparts produce and manage high quality soybean seed under the guidance of experts 2-1 The experts and counterparts conduct the survey on the actual soybean cultivation by farmers 2-2 The experts and counterparts carry out field trials for improving soybean production and management of soybean seed 2-3 The experts and the counterparts implement the training on seed production and management for high quality soybean seeds 2-4 The experts and the counterparts implement demonstration trials at the key seed growers 2-5 The experts and counterparts improve the existing manuals on the production and management of soybean seed 3-1 The experts introduce the new methods of seed inspection 3-2 The experts and the counterparts train the BPSB staff for seed inspection 3-3 The experts and the counterparts improve the existing manuals and standards on seed certification 4-1 The experts and the counterparts prepare the training manuals and materials 4-2 The experts and the counterparts improve the training curriculum 4-3 The experts and the counterparts implement the training courses	V. Input Japanese side 1 Expert (1) Long-term experts: a. Team Leader 60M/M b. Coordinator 60M/M c. Seed Production 54M/M d. Seed Inspection 55M/M e. Training 56M/M (2) Short-term experts: a. Agricultural Machinery 3.5M/M b. Pathology 5.0M/M c. Seed Processing 4.0M/M d. Entomology 5.0M/M 2 Equipment and Machinery (JPY) 1996 34,997,717 1997 40,028,720 1998 5,088,891 1999 12,773,969 2000 7,000,000 2001 3 Acceptance of Indonesian Personnel for Training in Japan a. Seed multiplication system b. Seed Production c. Seed Inspection d. Seed Multiplication e. Seed Processing 4 Local Cost (Rupiah) 1996 83,333,000 1997 276,937,500 1998 1,130,453,000 1999 916,335,300 2000 773,596,200 2001	Indonesian side 1. Counterpart assignment a. Project Director b. Project Manager c. At least two full C/P in BBI or BPSB for each expert 2. Land, Buildings, Facilities Office, conference room, training room, accommodation, etc Running Expenses (Rupiah) Running Expenses for the Project 1996 263,897,000 1997 439,270,000 1998 292,585,000 1999 586,980,000 2000 367,645,000 2001 3. Other Establishment and management of Joint Coordinating Committee	1. The field of model BBU is set up, then SS is produced 2. Sufficient and continuous financial support for the Project's implementation is given. 3. The cooperation from the other organization concerned is offered to the Project continuously. 4. C/Ps are not frequently transferred. Pre-Condition 1. High quality BS is supplied 2. The soybean seed production system is clearly defined and legalized. 3. The organization, personnel, function and legal status of BBI, BBU, SPC and BPSB are clarified. 4. Necessary number of C/Ps with appropriate qualification and experience are assigned. 5. Necessary budget for the Project is assured. 6. Cooperation from other organizations concerned with the Project is assured. 7. The Office space for the experts in DIPERTA and BPSB in Surabaya is assured. 8. Soybean inspectors are assured in BPSB. 9. The BBI and Model BBU are strengthened through assigning more technical staff.

ANNEX 2. List of Japanese Experts Dispatched

(1) Long-term Experts

No	Name	Subject	Term
1	Nagaaki Sekiya	Leader	1996. 07. 01 ~ 1998. 07. 14
2	Tuyoshi Nabeta	Coordination	1996. 07. 01 ~ 2000. 06. 30
3	Keizo Higashiyama	Training	1996. 10. 29 ~ 1998. 10. 28
4	Yuki Ichikawa	Inspection	1996. 11. 26 ~ 2001. 06. 30
5	Takayuki Tsuruuchi	Production	1997. 01. 08 ~ 1999. 07. 07
6	Takashi Sanbuichi	Leader	1998. 07. 22 ~ 2001. 06. 30
7	Yuzo Shozaki	Training	1998. 10. 15 ~ 2001. 06. 30
8	Nagaaki Sekiya	Production	1999. 07. 01 ~ 2001. 06. 30

(2) Short-term Experts

No.	Name	Subject	Term
1	Tetsuo Tamaki	Machinery techniques	1998. 02. 03 ~ 1998. 02. 28
2	Kunio Nemoto	Seed processing	1998. 02. 03 ~ 1998. 03. 21
3	Yoshiro Mikoshiba	Plant pathology	1998. 09. 22 ~ 1998. 10. 20
4	Tadatora Okada	Entomology	1998. 09. 22 ~ 1998. 10. 20
5	Kunio Nemoto	Seed processing	1999. 07. 01 ~ 1999. 09. 30
6	Tadatora Okada	Entomology	1999. 07. 01 ~ 1999. 10. 30
7	Yoshiyuki Inoue	Agricultural machinery	2000. 07. 01 ~ 2000. 09. 15
8	Takashi Yamamoto	Plant pathology	2000. 07. 01 ~ 2000. 10. 30

ANNEX 3. List of Indonesian Counterparts Accepted for Technical Training in Japan

No	Year	Name	Training Subject	Training Term
0	1995	Mr.Jamaluddin	Seed Cultivation (as Individual expert)	96.05.29~96.10.14
1	1996	Mr.Riyadi	Seed multiplication	96.09.29~96.10.18
2	;	Mr.Soekoreno	Seed multiplication	96.09.29~96.10.18
3	;	Mr.Suparno	Seed multiplication	96.09.29~96.11.27
4	1997	Ms.Sri Suharti	Seed inspection	97.08.24~97.10.24
5	;	Mr.Munawir	Seed multiplication	97.11.13~97.12.03
6	;	Mr.Djiko	Seed multiplication	97.11.13~97.12.03
7	;	Mr.Nurdin	Seed production	98.03.30~98.10.15
8	1998	Mr.Tony	Training	98.09.07~98.11.10
9	;	Ms.Sri Susila	Seed Inspection	98.09.07~98.11.10
10	;	Ms.Sefti	Seed multiplication	98.10.04~98.11.05
11	;	Mr.Suyono	Seed multiplication	98.10.04~98.11.05
12	1999	Ms.Sutji Elmi	Training	99.07.04~99.09.09
13	;	Mr.Susanto	Seed inspection	99.07.04~99.11.14
14	;	Mr.Muljono	Seed production	99.07.04~99.07.25
15	2000	Mr.Soni	Seed inspection	00.06.13~00.11.15
16	;	Mr.Sumarno	Seed multiplication	00.10.11~00.10.20
17	;	Mr.Slamet	Seed processing	00.11.06~00.12.19

ANNEX 4 : List of Major Machinery and Equipment Provided by Japan

FY	No.	Item	Price ¥ (Rp.)	Qty	Installed place	Use	Control
1998	98CJ002	Electronic balance PG5001	169,000	1	BBI	B	A
1996	96EI003	Portable pH meter TOA HM-12P	118,065 (2,315,000)	4	BBI 3, BPSB 1	B	A
1996	96EI009	Seed crusher CEMOTEC-1090	918,918 (18,018,000)	1	BPSB	B	A
1996	96EI010	Thermostatic drying oven ADVANTEC FV-430	600,831 (11,781,000)	2	BPSB 1, BBI 1	A	A
1996	96EI011	Large thermostatic drying oven ADVANTEC FV-1000	1,882,818 (36,918,000)	1	BBI	A	A
1996	96EI015	Direct projector Plus DP-30	223,000 (4,380,000)	1	TC	B	A
1996	96EI019	OHP: PLAS CX900	271,696 (5,327,375)	1	TC	A	A
1996	96EI038	Video displayer Panasonic TX-28	225,919 (4,429,775)	1	TC	B	A
1997	97EI004	OHP: HP－A380 Solar Zoom、Elmo	311,458 US$ 2,491.67	1	TC	A	A
1997	97EI007	Wooden shelter Model TM-1001、Tec Inter	812,500 US$ 6,500.00	1	BBU	A	A
1997	97EI015	Electric drying oven Model BE200,32 litter, Memmart	238,146 US$ 1,905.17	1	BBI	A	A
1997	97E1022	Hand Tractor Remodel	304,286	4	BBI 2, BBU 2	A	A

		MK5,4.8Ps, Yamondo	US$2,434.29				
1996	96EJ003	Rainfall recorder 3-6030-01	130,000	2	BBI 1, BBU 1	A	Λ
1996	96EJ010	Small rice polisher CP-18	450,000	2	BBI 2	A	Λ
1996	96EJ011	Small winnower T-20	170,000	2	BBI 2	A	Λ
1996	96EJ014	Sieve grador MH-601	1,674,000	1	BBI	A	Λ
1996	96EJ017	Clean bench, PAU-1300BG	850,000	1	BPSB	C	Λ
1997	97EJ001	Robitzsgh actinography,3-7030-01	120,000	1	BBI	Λ	Λ
1997	97EJ006	Vacuum sealer V-400	560,000	1	BBI	B	Λ
1997	97EJ009	Electronic analytical balance BP210S	160,000	4	BPSB	B	Λ
1997	97EI011	Visual presenter EV-450AFPAL	370,000	1	TC	B	Λ
1996	96EI001	ISUZU Panther Diesel 2500cc、	2,228,700 (43,700,000)	3	SBY 2, MLG 1	Λ	Λ
1997	97EJ013	Low temperature room	6,147,500	1	BBI	Λ	Λ
1997	97EJ014	Seed Processing plant	19,210,000	1	SPC	Λ	Λ
1998	98EI010	Minibus Kijang (LSX－D)＋Double AC	1,972,000 (123,250,000)	1	MLG	Λ	Λ

List of Supplementary Funds to Cover Local Costs by Japan (Rupiah)

ANNEX 5

Fiscal Year	General field work expenses	Technology exchange expenses	Project infrastructure development expenses	Education and promotional activity expenses	Expenses for measures to develop a main body of technical experts	LLDC special field work expenses	Localization expenses	Note
1996	83,333,000							
1997	120,000,000				156,937,500			
1998	370,991,000				359,644,000			
1998	399,818,000							Emergent support
1999	366,116,200	83,286,900		183,500,000	173,632,200	87,000,000		
2000	317,016,200		25,000,000		230,580,000		201,000,000	Up to the IIIrd quarter

List of Budgetary Allocation by the Indonesian Side(Rupiah)

Fiscal Year	
1996	263,897,000
1997	439,270,000
1998	292,585,000
1999	586,980,000
2000	367,645,000
2001	

ANNEX 6. List of Indonesian Counterparts Assigned

No	Area	Name	Position	Japanese Expert
1	Project Management	Mr.Munawir	Director, Directorate of Seed Development (DSD), Directorate General of Food Crops and Horticulture (DGFCH)	Nagaaki Sekiya Takashi Sanbuichi
2		Mr.Sugagyono D.	Director, DSD, DGFCH	
3		Mr.Tarkim	Director, DSD, Director General of Food Crops Production (DGFCP)	
4		Mr.Djoko	Head, DINAS Pertanian Jawa Timur	Nagaaki Sekiya Takashi Sanbuichi
5		Mr.Soehardjo	Head, DINAS Pertanian Jawa Timur	
6		Mr.M.Maksum	Head, DINAS Pertanian Jawa Timur	
7	Preject Coordination	Mr.Tarkim	Head, Sub-Directorate of Food Crops Seed, DSD,DGFCH	Nagaaki Sekiya Takashi Sanbuichi
8		Mr.Ibin	Head, Sub- Directorate of Legume Seed, DSD, DGFCP	
9		Mr.Riyadi	Chief, Legume Seed Section, DSD, DGFCH	
10		Ms.Sefty	Sub- Directorate of Legume Seed, DSD, DGFCP	
11		Mr.Soekardi	Head, Food Crops Production DINAS Pertanian Jawa Timur	Takashi Sanbuichi
12		Mr.Suyono	Head, Food Crops Production DINAS Pertanian Jawa Timur	
13		Mr.Amin	Chief, Seed Production Section, Food Crops Production, DINAS Pertanian Jawa Timur	
14	Seed Produvtion	Mr.Soekoreno	Head, BBI Malang	Takayuki Tsuruuchi Nagaaki Sekiya
15		Mr.Jamaluddin	Chief, Production Section, BBI Malang	
16		Mr.Nurdin	Production Section, BBI Malang	
17		Mr.Suparno	Head, BBU Pasuruan	
18		Mr. Taranggono	Head, Pt.Pertani, Jombang	
19		Mr.Lalan	Head, Pt.Pertani, Jombang	
20	Seed Indspection	Ms.Sri Susila	Coordinator, Seed Inspection, BPSB III	Yuki Ichikawa
21		Ms.Sri Suharti	Coordinator, BPSB III Malang	
22		Mr.Susanto	Variety Evaluation Section, BPSB III	
23		Mr.Soni	Seed Certification Section, BPSB III	
24	Training	Mr.Tony	Food Crops Production, DINAS Pertanian Jawa Timur	Keizo Higashiyama Yuzo Shozaki
25		Ms.Sutji	Agricultural technology, DINAS Pertanian	
26		Mr.Budi Waluyo	Production, BBI Malang	
27	Seed Processing (Short term)	Mr.Slamet	Seed Processing Section, BBU Malang	Kunio Nemoto
28		Mr.Suparno	Head, BBU Pasuruan	
29		Mr.Suparnoto	Pt.Pertani Jombang	
30	Machinery (Short term)	Mr.Bejo	BBI Malang	Tetsuo Tamaki Yoshiyuki Inoue
31		Mr.Sukiman	BBU Pasuruan	
32	Plant Pathology (Short term)	Ms. Zainab Nunung	Laboratory Inspectore, BPSB III	Yushio Mikoshiba Takashi Yamamoto
33		Ms.Nurmahmudia	Laboratory Inspectore, BPSB III Malang	
34	Entomology (Short term)	Mr.Yudhi Nasrul	Field Ispector, BPSB III	Tadatora Okada
35		Mr.Budi Purnomo	Field Ispector, BPSB III Malang	

Evaluation Summary ANNEX 7

	Evaluation Summary
Overall Goal	The production of soybean is increased in East Java
Project purpose	The multiplication system of high quality soybean seed is strengthened in East Java
Outputs	1) High -quality seeds are produced 2) Technical skills of seed production and management are improved 3) Technical skills of seed inspection are improved 4) The training system is strengthened
Inputs	(Indonesian side) 1) Counter personnel 1)-1. Project director 1)-2. Project manager 1)-3. Counterparts for Japanese experts 1)-4. Administrative personnel and other supporting staff 2) Physical facilities 2)-1. Building, facilities, experimental fields 2)-2. Space for machinery and equipment 2)-3. Electricity, water and communication facilities 2)-4. Others 3) Operating expenses 4) Others (Japanese side) 1) Japanese experts Long-term experts 1)-1. Team leader 1)-2. Coordinator 1)-3. Seed production 1)-4. Seed inspection 1)-5. Training Short-term experts 2) Technical training of Indonesian counterpart personnel in Japan 3) Equipment and machinery 3)-1. Machinery and equipment 3)-2. Vehicles 3)-3. Others 4) Others: Local cost for training