# **Attachment GP-5**

**Post Project Strategy Paper** 

### The Project for Improvement of Road Maintenance

April 2016

### Post Project Strategy Policy Paper

In order that healthy sustainability is maintained upon completion of the project at the end of November 2016, this post project strategy policy paper has been drafted for mutual discussions with MOT and JICA by the JICA Experts Team.

### 1. Proposed Goals for MOT in 2021

### **1.1 Pavement Inspection**

- to be able to conduct pavement inspection in accordance with Pavement Inspection Manual for the entire international and republican roads in Tajikistan in a standardized manner.

- to maintain a database center in MOT for controlling all pavement inspection data within Tajikistan.

### 1.2 Pavement Repair

- to be able to conduct pavement repair in accordance with Pavement Repair Manual at 4 SETMs under which road maintenance machineries and equipment are handed over by JICA.

- to maintain a pavement repair data center in Gissar and Kurgan Tyube SETMs.

### 2. MOT Financial Prerequisites

MOT requires securing the following amount of fund for each concerned SETM for achieving goals in 2021.

Pavement Inspection	
For the required IRI survey and visual inspection:	20,000 Somonis each SETM
Pavement Repair	
For the required overlay of 5km of 7m width:	1,680,000 Somonis each SETM
Total for Both :	1,700,000 Somonis each SETM

In addition to the above, MOT requires securing the additional nominal amounts of fund as indicated in the attached Detailed Explanation Sheets.

### 3. Anticipated Strategy for Achieving Goals for MOT in 2021

### 2.1 Pavement Inspection

### Strategy 1

Continuation of training led by master trainers for ensuring that pavement inspection procedures recommended under pavement inspection manual are maintained for Gissar, Kurgan Tyube, Sogd and Kulyab SETMs.

### Strategy 2

Establishment of database center in MOT.

### Strategy 3

Extension of technical transfer by master trainers for ensuring pavement inspection procedures recommended under pavement inspection manual are implemented by 2 remaining SETMs.

### Strategy 4

Updating of pavement inspection manual by MOT

### 2.2 Pavement Repair

### Strategy 1

Continuation of training led by Gissar and Kurgan Tyube SETMs for ensuring that pavement repair procedures recommended under pavement repair manual are adhered to for Gissar, Kurgan Tyube, Sogd and Kulyab SETMs. Each SETM aims at repairing roads at the pace of or more than 5km each year accordingly

### Strategy 2

Establishment of pavement repair data center in Gissar and Kurgan Tyube SETM.

### **Strategy 3**

Updating of pavement repair manual by MOT

### 2.3 Organizational Strengthening within MOT

### Strategy 1

Strengthening of RCM to act as the database center for road maintenance in MOT.

### Strategy 2

Development in future to transform RCM to database center for all road infrastructure assets and increase management capacity

Detailed explanation sheets indicating action in steps together with the associated time frame are attached.

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Post Project Strategy Items	2013	2013	2014	2015	2016	2017	2018	2019	2020	2021	Remarks and notes
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rategy 2 velopment in future to transform RCM to database inter for all road infrastructure assets and increase											
inagement capacity line with 3.1 above, it is recommended that MOT seriously dy transformation of RCM to become the database netre for all road infrastructure assets owned by MOT cluding roads, bridges, tunnels, road maintenance							Transfor as a data all road i	nation of base cen hfrastruct	RCM ter for ure asset	<i>ه</i> ا	
ichineries/equipment as well as road disaster statistics that a comprehensive masterplanning of road maintenance under a single roof.					De	cision ma	king by M	от			
this subject											

Items for Post Project Strategy Consideration	before 2011	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Remark
Projects Undertaken and Pronosed in Road Sector			-		Pilot	Project #	2 Pilot Pro	ject #2	Post	Project F	Period		
JICA Project for Improvement of Road Maintenance						\$	Q	-	Î	1			
JICA Capacity Buiding for Road Disaster Mitigation (tentative)									tentative	for stud	y purpose		
JICA Road Maintenance Machineries Grant Aid Project for Khatlon and Republic Subordinate Region for Sogd and Khatlon East				-	delive	ary			tentative	delivery			
JICA Road Improvement Grant Aid Projects Other Road Improvement Projects by International Donors		-		-	-								
Road Maintenance Machineries and Equipment Provided by JICA													
Pavement Inspection DRIMS (formerly VIMS) equipment ( Sets of Equipment)					4 4	4 4 4	4 6 6	6 6 6	6 6 6	666	6 6 6	666	
Pavement Repair Asphalt Plant (Units) Other Machineries (Lump Sum.)					2	222	222	222	244	444	4 4 4	444	
QC Equipment (Sets of Equipment)			1.5.5	2.71		2 2	222	222	2 3 3	3 3 3	3 3 3	3 3 3	
Annual GDP Growth in US\$ (%)		Pleas	e refer to	Attachm	ent. The	growth fig	gure is in p	positive.					
Annual MOT Road Maintenance Growth in Somonis (%)		Pleas	e refer to	Attachm	ent. The	growth fig	gure is in p	postive.					
Project Contents					Pilot	Project #	2 Pilot Pro	pject #2					
5.1 Counterparts					-								
Sigsar SETM and 9 SEHMs Kurgan Tyube SETM and 13 SEHMs Sogd SETM and 3 SEHMs													
5.2 Overall Goal													
Pavement condition of international and republican roads under the jurisdiction of Gissar SETM and Kurgan Tyube SETM is Pavement condition of roads under control of MOT in the target area is improved.(Target Area: Gissar, Kurgan Tyube, Sogd and Kulyab SETMS)													
5.3.Project Purpose Implementation capacity of Gissar SETM and Kurgan Tyube SETM for used maintaneous is immercial							1						
Implementation capacity for road maintenance is improved.(Target Area: Gissar, Kurgan Tyube, Sogd and Kulyab SETMs)	1												
5.4 Deliverables					-		11/2 4		-			lun data	
Pavement Repair Manual							JICA ve	rsion				update	
							1.1						

# **Attachment GP-6**

# 7<sup>th</sup> JCC Meeting

Minutes of Meeting dated 22 November 2016





### MINUTES OF MEETING FOR THE 7th JOINT COORDINATING COMMITTEE MEETING FOR THE PROJECT FOR IMPROVEMENT OF ROAD MAINTENANCE THE REPUBLIC OF TAJIKISTAN

22<sup>nd</sup> of November 2016

Dushanbe, Tajikistan

The Seventh Joint Coordinating Committee (hereinafter referred to as "JCC") meeting on the Project for Improvement of Road Maintenance (hereinafter referred to as "the Project") was held on the 22<sup>nd</sup> of November, 2016 at the Ministry of Transport (hereinafter referred to as MOT) to confirm progress and achievement made from the start of the Project in October 2013 to the end of the Project including the results of all verifiable indicators and the Post Project Strategy Paper. As a result of the meeting, the JCC members mutually agreed on the matters mentioned in Attachment 1.

Mr. Ganjalzoda Sherali Acting Chairman, Joint Coordination Committee The Minister of Transport

Mr. Kiyoshi Ishii Vice Chairman, Joint Coordination Committee Resident Representative, JICA Tajikistan Office

#### **ATTACHMENT 1: DETAILS OF MEETING**

- 1. The JCC Meeting commenced at 9:40 AM with an introduction of participating members by Mr. Yatimov Olim, Project Manager.
- 2. Acting chairman, Your Excellency Mr. Ganjalzoda Sherali, the Minister of Transport, made an opening speech. Acting Chairman thanked the Japanese side for their assistance for support of transport sector in the Republic of Tajikistan. He also thanked that the Project enabled training of the staff from Gissar, Kurgan Tyube, Sogd and Kulyab regions in the field of pavement inspection and pavement repair.
- 3. Resident Representative of JICA Mr. Kiyoshi Ishii and Vice Chairman of JCC explained about the uniqueness of the technical cooperation scheme under JICA, and that this Project was the first technical cooperation project in the transport sector implemented by JICA Tajikistan office. He then confirmed the objective of the 7th JCC Meeting as well as the project goal. He also asked the Acting Chairman, the Minister of Transport to consider retaining the project office currently occupied by the JICA Experts Team (hereinafter referred to as the Experts) for use under the planned new technical cooperation project.
- 4. The Chief Advisor of the Experts Mr. Hiroshi Mita conducted presentations regarding the activities for the past 6 months as well as the activities conducted from the beginning of the Project to present the outcome of all verifiable indicators under PDM Version 3 using PowerPoint presentation slides. He also presented 2 minor changes made on the Post Project Strategy Paper which was originally presented on 24 May 2016 under the 6<sup>th</sup> JCC meeting. At that time, the paper was agreed by all JCC members for basic acceptance. He requested this time for full acceptance informing the members that this was the request jointly agreed by the Experts and Road Construction and Maintenance Department of MOT. Two changes were 1) the change in MOT financial prerequisites and 2) consideration for pavement repair on local roads. He explained that the second change would require minor changes to PDM and hence, introduction of Version 4 of PDM.
- Representatives of the Counterparts from Gissar SETM, Kurgan Tyube SETM presented their comments on how the Project contributed deeply in improving their day to day operation for pavement inspection and repair.

- 6. Acting Chairman made the following comments on the results of the Project;
  - Acting chairman praised the Experts and the Counterparts for publication of Pavement Inspection Guideline and Pavement Repair Guideline, which would be most useful for SETM and SEHM engineers on site.
  - 2) For necessary funding required for proper road maintenance as estimated by the Experts of 1,518,000 Somonis per year per each SETM, Acting Chairman confirmed that MOT will try its best to allocate such funds in future.
- 7. All members reconfirmed the following two topics presented by the Chief Advisor as outlined in 5 above.

The 2 changes requested for the Post Project Strategy Paper (Attachment PP-1): All JCC members approved adopting the Post Project Strategy Paper in Attachment PP-1.

Version 4 of PDM (Attachment PP-2)

All JCC members approved adopting the Version 4 of PDM in Attachment PP-2.

- 8. To end the meeting and on behalf of the Tajikistan Side, Acting Chairman reaffirmed that the results of the Project would contribute to the development of transport sector in Tajikistan. He also assured that MOT would always closely cooperate with JICA. Furthermore, he stated that MOT would retain the project office currently occupied by the Experts for use under the planned new JICA technical cooperation project.
- 9. In return and on behalf of the Japanese side and as the Vice Chairman, Mr. Kiyoshi Ishii of JICA Tajikistan Office concluded that the Project achieved significant improvement in both pavement inspection and pavement repair and thanked MOT for full cooperation. He also thanked MOT for assuring the use of the current project office for further use under the planned new JICA technical cooperation project.

The meeting ended at 11:20 PM.

# **ATTACHMENT 6: Meeting Photos**



ATTACHMENT 4: Post Project Strategy Paper (Attachment PP-1)

### The Project for Improvement of Road Maintenance

November 2016

This is the revised version based on the change made to Pavement Inspection Guideline 2016.

### Post Project Strategy Policy Paper

In order that healthy sustainability is maintained upon completion of the project at the end of November 2016, this post project strategy policy paper has been agreed by MOT and JICA Experts Team. This paper is in line with PDM Version 4.

### 1. Proposed Goals for MOT in 2021

### **1.1 Pavement Inspection**

- to be able to conduct pavement inspection in accordance with Pavement Inspection Manual for the entire international and republican roads in Tajikistan in a standardized manner.

- to maintain a database center in MOT for controlling all pavement inspection data within Tajikistan.

### **1.2 Pavement Repair**

- to be able to conduct pavement repair in accordance with Pavement Repair Manual at 4 SETMs under which road maintenance machineries and equipment are handed over by JICA.

- to maintain a pavement repair data center in Gissar and Kurgan Tyube SETMs.

### 2. MOT Financial Prerequisites

MOT requires securing the following amount of fund for each concerned SETM for achieving goals in 2021.

In addition to the above, MOT requires securing the additional nominal amounts of fund as indicated in the attached Detailed Explanation Sheets.

### 3. Anticipated Strategy for Achieving Goals for MOT in 2021

### 2.1 Pavement Inspection

### Strategy 1

Continuation of training led by master trainers for ensuring that pavement inspection procedures recommended under pavement inspection manual are maintained for Gissar, Kurgan Tyube, Sogd and Kulyab SETMs.

**Strategy 2** 

Establishment of database center in MOT.

### **Strategy 3**

Extension of technical transfer by master trainers for ensuring pavement inspection procedures recommended under pavement inspection manual are implemented by 2 remaining SETMs.

Strategy 4

Updating of pavement inspection manual by MOT

### 2.2 Pavement Repair

### Strategy 1

Continuation of training led by Gissar and Kurgan Tyube SETMs for ensuring that pavement repair procedures recommended under pavement repair manual are adhered to for Gissar, Kurgan Tyube, Sogd and Kulyab SETMs. Each SETM aims at repairing roads at the pace of or more than 5km each year accordingly

### **Strategy 2**

Establishment of pavement repair data center in Gissar and Kurgan Tyube SETM.

### Strategy 3

Updating of pavement repair manual by MOT

### 2.3 Organizational Strengthening within MOT

### Strategy 1

Strengthening of RCM to act as the database center for road maintenance in MOT.

### **Strategy 2**

Development in future to transform RCM to database center for all road infrastructure assets and increase management capacity

Detailed explanation sheets indicating action in steps together with the associated time frame are attached.

ATTACHMENT 5: Version 4 PDM dated 22 November 2016 (Attachment PP-2)

## LOGICAL FRAMEWORK (PROJECT DESIGN MATRIX: PDM) 4

PROJECT TITLE: Project for Improvement of Road Maintenance	DURATION: Originally 31 months from Oct	PDM Ver.4
	2013 to May 2016, Extended for 6 months to	
	November 2016	
TARGET GROUP: 22 SEHM <sup><math>*1</math></sup> s and 2 SETMs <sup><math>*2</math></sup> in Gissar and Kurgan –	TARGET AREA: International & Republican	DATE:
Tyube and Ministry of Transport (MOT) (original target group), 6 SEHMs and	roads in Gissar and Kurgan-Tyube (original	22-Nov2016
2 SETMs in Sogd and Kulyab (additional target group in the extended period)	target area) and in Sogd and Kulyab (additional	
	target area)	

<sup>\*1</sup>SEHM: State Enterprise on Highway Management, <sup>\*2</sup> SETM: State Enterprise of Transport Management

Narrative Summary	<b>Objectively Verifiable Indicators</b>	Means of Verification	Important Assumptions
Overall Goal Pavement condition of the roads in Tajikistan is improved.	<ol> <li>By the end of 2019, at least 30 km and 15 km of lengths of road repairing is implemented by hot-mix asphalt by the original and additional target groups respectively at International, Republican and Local roads according to the Road Repairing Guidelines</li> <li>The average Road Repair Index (RRI) of roads repaired under 1 above in the original target area has a reduction of at least 60% compared to the same before repairing</li> <li>The average IRI of the roads repaired under 1 above in the additional target area has a reduction of at least 50% compared to the same before repairing</li> </ol>	<ol> <li>Road maintenance record sheet of each SETM (monthly and yearly)</li> <li>2&amp;3 Form 1 of Road Inspection Guideline Final Version</li> </ol>	
Project Purpose	1. At least 90% of the results of roughness survey at original target 22	1. & 2 Road Inspection	-Current

Implementation			SEHMs, using the revised Guidelines is assessed accurate by the JICA	Record and its	socio-political
capacity for	road		experts by the end of the Project	assessment summary	situation is not
maintenance	is	2.	At least 80% of visual inspection results by original target 22 SEHMs,	3. Repairing record and its	changed
improved.			using the revised Guidelines is assessed accurate by the JICA experts	assessment summary	drastically.
			by the end of the Project	4. Date of approval by the	-Policy
		3.	At least 80% of results of the road repairing works #2 by three fourths	First Deputy Minister	including the
			of original target SEHMS, planned based on the results of the road	Head of Main Depart,	budget
			inspection and implemented according to the revised Guidelines, meet	MOT	allocation for
			requirements of time, cost, quality, and safety specified in the plans		the road
		4.	Road Inspection and Repairing Guidelines for SETM/SEHM revised		maintenance
	3		through the Project are approved by MOT by the end of the Project		and repair is
					maintained.
					-Road repairing
					equipment to
					use hot-mix
					asphalt is
					available for
					additional
					2SETMs by
	- 1				the end of
					2017
Outputs		la	Road Inspection Guidelines for SETM/SEHM are revised with the	1a Revised Inspection	-Sufficient
1. Road			newly developed Roughness Survey Manual by April 2014	Guidelines	number of the

inspec	tion <sup>*4</sup>	1b. International Roughness Index (IRI) of the roads in the original target	1b. Roughness Survey	engineers and	
skills o	of the	area is collected according to the revised Guidelines by the original	Report	operators of	:
target	SEHMs	target 2 SETMs in coordination with the original target 22 SEHMs at	1c. Inspection Record and	the target	:
are im	proved.	least twice by the end of the Project	its assessment summary	SEHMs is	
		1c. Visual inspection according to the revised Guideline is conducted at	Id. Final version of revised	kept.	
		least twice by all original target SEHMs by the end of the Project	Guidelines submitted to		
		Id. Road Inspection Guidelines for SETM/SEHM are finalized by	MOT		
		September 2016 for submission to MOT, reflecting feedbacks from the	1e. Inspection Record		
		road inspections (roughness survey and visual inspection) in the target	If. Test record and report		
		area			
		1e. Training of IRI measurement and visual inspection for additional 2			
		SETMs and 6 SEHMs were conducted at the additional target area by			
		the Master Trainers for Inspection from the original target			
		SETMs/SEHMs, using the revised Guidelines			
		If. At least 80% of the training participants from additional target SETM			
		and SEHMs pass the post-training test on basic elements of pavement			
		inspection			
					1
2. Road r	repairing*5	2a. Road repairing guidelines for SETM/SEHM are revised by April 2014	2a. Revised Road and		
skills o	of the	2b. At least 80% of the training participants from original target SETM	Repairing Guidelines		
target	SEHMs	passes the post-training test on road repairing to use hot-mix asphalt	2b. Test record and		
are im	proved.	2c. At least 5.0 km length of road repairing (#1 and #2) is implemented by	report		
		at least 80% of the original target SEHMs according to the revised	2c. Road Repairing		

Guidelines by the end of the Project	record
2d. Road Repairing Guidelines for SETM/SEHM are finalized by	2d. Final version of
September 2016 for submission to MOT reflecting the feedbacks from	revised Guidelines
road repairing works #1 and #2	submitted to MOT
2e. All the appointed laboratory technicians of the asphalt plants in the	2e&2f. Test record and
target SETMs score at least 70 out of 100 points in the post-training	report
tests	5
2f. At least 80% of the training participants from additional target 2	
SETM and 6 SEHMs passes the post-training test on basic elements of	
pavement repair by the end of the Project	

\*<sup>3</sup> Road maintenance means pavement maintenance, \*<sup>4</sup> Road inspection means pavement inspection

\*<sup>5</sup> Road repairing means pavement repairing

	Activities		Inj	puts		-Natural	
1.1	To review the existing Road Inspection Guidelines.	<ja< td=""><td>panese side&gt;</td><td>&lt;]</td><td>ajikistan side&gt;</td><td>disaster w</td><td>hich</td></ja<>	panese side>	<]	ajikistan side>	disaster w	hich
1.2	To revise the Road Inspection Guidelines with the attached Roughness	1.	Experts	1.	<b>Counterparts</b> for	affect	the
	Survey Manual.	a)	Leader/Road		the Project	activities of	f the
1.3	Conduct trainings (in each region) on Roughness Survey for the original		Maintenance	a)	Project Director	Project does	s not
	target 2 SETMs and 22 SEHMs.		Expert 1	b)	Project Manager	occur	
1.4	Carry out Roughness Survey on the roads in the original target area	b)	Road inspection	c)	Counterparts	-Security	
	according to the revised Guidelines by the target 2 SETMs in coordination		Expert 1			situation	of
	with the original target 22 SEHMs.	c)	Roughness	2.	<b>Office Facilities</b>	Tajikistan	
1.5	Organize a workshop (in Dushanbe) to summarize the results of		Survey Expert	a)	In the building of	which limits	s the
	Roughness Survey with the target 2 SETMs, 22 SEHMs and MOT.	d)	Road Repairing		MOT for the	activities of	f the
1.6	File the results of Roughness Survey (IRI data) by the original target 2		Supervision		Project with office	JICA exp	perts,
	SETM in the prescribed form of the revised Guidelines		Expert 1		furniture and	especially in	n the
1.7	Conduct trainings (in each region) on road inspection according to the	e)	Road Repairing		utilities such as	target area,	does
	revised Road Inspection Guidelines for the original target 22 SEHMs and 2		Supervision		telephone line,	not deterio	orate
	SETMs.		Expert 2		electricity, etc.	compared	with
1.8	Conduct visual inspection on the roads in the original target area at the	f)	Road	b)	In the building of	the same	in
	original target 22 SEHMs, according to the revised Guidelines.		Maintenance		SETM located in	December 2	015
1.9	Revise the Road Inspection Guidelines based on the results of the road		Expert 2/ Road		Kurgan-Tyube		
	inspection works (Act. 1.4 & 1.8)		Inspection		with office	Pre-Condition	on
1.10	Organize workshops (in each region) to introduce the revised Guidelines		Expert 2		furniture and	Tajikistan	
	for the original target 22 SEHMs, 2 SETMs and MOT.	g)	Interpreters		utilities such as	especially	the

# LOGICAL FRAMEWORK (PROJECT DESIGN MATRIX: PDM) 4

#### and procedures.

- 2.7 Revise the Road Repairing Guidelines further based on the results of the analysis (Act. 2.6)
- 2.8 Organize workshops (in each region) to introduce the revised Guidelines with the original target 22 SEHMs, 2 SETMs and MOT.
- 2.9 Plan the road repairing work #2 in the original target area by the selected target SEHMs according to the revised Guidelines reflecting the results of road inspection (Act. 1.8).
- 2.10 Monitor and give technical advice on the road repairing works #2.
- 2.11 Finalize the Road Repairing Guidelines based on the results of the road repairing works #2.
- 2.12 Organize workshops (in each region) to give feedbacks on the results of road repairing works #2, such as repairing materials and procedures, and to introduce the finalized Road Repairing Guidelines for the target SEHMs, SETMs and MOT.
- 2.13 Carry out training on appointed laboratory technicians from each target SETM to be able to conduct day to day quality control test at the asphalt plant.
- 2.14 Assist the original target SETMs/SEHMs in training additional 2 SETMs and 6 SEHMs on basic elements of pavement repair using road repairing works #2 in 2016.
- 2.15 Certify trainers for specific techniques for road repairing from the staff of the original target SETMs/SEHMs.

7

# **Attachment GP-7**

List of Master Trainers and Trainers Certified under the Project

No.	Name	SETM/SEHM	Certificate						
1	Mr.Odinaev Smoilbek	Gissar SETM	Inspection(MT)	Repair(MT)					
2	Mr.Qodirov Yusuf	Gissar SETM	19.2.5	Repair					
3	Mrs.Qodirova Zulkhumor	Rudaki SEHM	Inspection(MT)	Repair(MT)					
4	Mr.Ismoilov Umed	Hisor SEHM	Inspection(MT)	Repair					
5	Mr.Rustamov Ibodullo	Shahrinav SEHM	· · · · · · · · · · · · · · · · · · ·	Repair					
6	Mrs.Safarova Sayora	Shahrinav SEHM	Inspection	Repair					
7	Mr.Nematov Odil	Faizobod SEHM	Inspection(MT)	Repair					
8	Mrs.Bobokhonova Zuhro	Varzob SEHM	Inspection	Repair					
9	Mr.Izatulloev Maqsud	Varzob SEHM	Inspection	Repair					
10	Mr.Eshonov Usmon	Roghun SEHM	Inspection	-					
11	Mr.Mukhamedov Shamsiddin	Norak SEHM	Inspection						
12	Mr. Tabarov Hakimali	Vahdat SEHM		Repair(MT)					
13	Mr.Saidov Qayum	Vahdat SEHM		Repair					
14	Mr.Asoev Hussein	Vahdat SEHM			QC (MT)				
15	Mr.Akhmedov Suhrob	Vahdat SEHM	-	+ 1	QC (MT)				

Master List of Trainees Completed Program under The Project for Improvement of Road Maintenance by JICA (Gissar)

Note: (M'I') Master Trainer

No.	Name	SETM/SEHM		Certificate	
ŀ	Mr.Kholiqov Muzaffar	Kurgan-tyube SETM	Inspection(MT)	Repair(MT)	
2	Mr,Karimov Abdusalim	Kurgan-Tyube SETM		Repair	
3	Mr;Majidov Shuhrat	Kurgan-tyube SETM	Inspection	Repair	
4	Mr.Hikmatov Khairullo	Jomi SEHM	Inspection(MT)	Repair(MT)	
5	Mr.Ergashev Ulughbek	Jomi SEHM	Inspection	Repair	Approved
6	Mr.Toirov Maqsadjon	Qubodiyon SEHM	Inspection(MT)	Repair(MT)	
7	Mr.Qahhorov Nurmahmad	Bokhtar SEHM	Inspection	Repair	
8	Mr.Qanoatov Qurbon	Sarband SEHM	Inspection(MT)		
9	Mr.Kholiqov Faiziddin	Rumi SEIIM	Inspection	Repair	
10	Mr.Ghoibnazarov Mahmadsharif	Rumi SEHM	Inspection	Repair	
11	Mr.Abdurahmonov Majid	Shahrituz SEHM	Inspection	Repair	
12	Mr.Egamberdiev Hasan	Khuroson SEHM	Inspection	Repair	
13	Mr.Ghulomov Sharif	Vakhsh SEHM	Inspection		
14	Mr.Ghoibov Sharifkhon	Vakhsh SEHM		Repair	
15	Mr.Aliqulov Tagoy	Yovon SEHM		Repair	
16	Mr.Najmakov Rivoj	Jillikul SEHM		Repair	

Master List of Trainees Completed Program under The Project for Improvement of Road Maintenance by JICA (Krgan Tyube)

17	Mr.Faizulloev Mahmadsaid	Jillikul SEHM	Repair	
18	Mr.Saidov Shomahmad	Jillikul SEHM	Repair	
23	Mr.Anorov Rajab	Jillikul SEHM		QC(MT)
24	Mr.Abdulloi Mamadqul	Jillikul SEHM		QC(MT)
19	Mr.Murodov Ruziboy	N.Khusrav SEHM	Repair	
20	Mr.Negmatov Hakimullo	Bokhtar SEHM	Repair	
21	Mr.Malikov Ilbom	Piyandzh SEHM	Repair	
22	Mr.Kholiqov Mahmadkarim	Qumsangir SEHM	Repair	

Note: (MT) Master Trainer

#### Master List of Trainees Completed Program under The Project for Improvement of Road Maintenance by JICA (Kulyab)

No.	Name	SETM/SEHM	Certificate
1	Mr.Pirov Hamza	Kulyab SETM	QC(Trainer)
2	Mr.Boronov Salomuddin	Vose SEHM	QC(Trainer)

#### Master List of Trainees Completed Program under The Project for Improvement of Road Maintenance by JICA (Sogd)

No.	Name	SETM/SEHM	Certificate
l	Mr.Miraminov Ayub	Sogd SETM	QC(Trainer)
2	Mr.Ochilov Abduqahor	Bobojon Ghafurov SEHM	QC(Trainer)

				Y		Paveme	nt Repair					
in an	Pavement Inspection		Pavement Repair		Quality Control			Challenges which Confronted SEHMs				
81/TM6/81/TMs	Master Trainer	Trainer	Total	Master Trainer	Trainer	Total	Master Trainer	Trainer	Total	Total	Lack of PC Knowledges	Trainees let SEHM either in 2015 or 2016
Gissar SETM	1		A-1 1 -	1	1	2						
Vahdat SDUM			0	1	1		2	2	2	1	-	_
Varzob SELEM	· · · · · · · · · · · · · · · · · · ·	2	2		2	2			1	4		
Rudaki SEHM	1	10-12-11	T	1		T				2	() a)	
Shahrinay SI/DM	1 - 1	1			2	ž				3		
Hisor SEHM	1		1	-	- 1 -	1-1-				2		
Norak SETIM		1	1			Ő				Î		
Roghun SETIM	1	- 1	T	_		Ö	1		1	I. I.		_
Tursunzoda SEHM	1	1 m	ő			Ő	1		-	0		
Faizobod SEHM	- 1		1		- 1	1	1	1.00	-	4		
Sub-total	4	5	9	3	8		2	2	2	22		
Kurgan-Tyube SETM	- 1	1	2	1	2	0.00				3		
Bokhtar SETIM	1	1	1		2	$\vec{2}$				3		
Shahmuz SEUM	-	1	1	2	1	1		-	-	1		
Pyundzh SEITIM	h1		0	1	1	1						-
Qubodiyon SUTIM	1	1	Ĩ	1		T				2		
Jomi SEHM	1-1	1	2	1	1	2			( )	4		
Rum SETIM		2	2	1 1	2	2				4	1	
Vakhsh SEHM	· · · · · · ·	1	I	1	1	Ĩ				2		
Sarband SEHM	1					Q						
N Khusray SETIM			0		-1							-
Quinsungir SETIM	3		0		1	1				-1		
Yovon SEHM	1	1	<u> </u>		1							
Jilikul StatM		free and a	0		3	3	2		2	3		
Khuroson SEHM		1	1		-1	1				2		
Sub-total	4	8	12	3	17	20	2	0	2	34		
lotal	8	13	21	6	25	3	4	2	4	55		
Sogd SETM			and the second	1			· · · · · · · · · · · · · · · · · · ·	2	2	2		
Kulyab SETM	L			1				2	2	2		
Total	8	13	21	6	25	31	4	6	8	60		

SEHMS where the Expert were prevented access since May 2015

SEHMs where no certification is issued

# **Attachment GP-8**

# List of Equipment Procured (including Handover Certificate)



The Project for Improvement of Road Maintenance Исх.No.:JICA-CTI April 04 4 April 2014 Reference: The Project for Improvement of Road Maintenance Subject: List of hand over equipment's in frame of the Project for Improvement of Road Maintenance Unit Total in Production price in No. Item Quantity Unit Model USD \$ USD \$ year VIMS (Vehicle Intelligent Monitoring System) Acceleration Sensor and NI - USB DAQ 6009 2 Set 2014(New) 2000 4000 1 Transystem - GPS Logger 747Pro Rubber Hump (2 humps / Richell 6005 set) Acer Aspire - Laptop Computer 2 2013(New) 685 1370 Set E1-572G PENTAX 2 Digital Camera 2013(New) 228 912 4 Set WG-3 GPS Por THOBERI NALASINA

Very truly yours, Hiroshi MITA Chief Advisor, JICA Experts Team



CTI



ВАЗОРАТИ НАКЛИЁТИ ЧУМХУРИИ ТОЧИКИСТОН

ФАРМОИШ

Nº 60

## аз «13» 04 2014с. ш.Душанбе

«Оид ба мувозина ворид намудани тачхизотхо»

Дар асоси Табодули ёддоштхо ва Созишномаи гранти аз 28.03.2013с. байни Хукумати Чумхурии Точикистон ва Агентии Чопон 🕘 оид ба хамкорихои байналмилалй (JICA) доир ба «Лоихаи азнавкунонии тачхизотхои нигохдории роххо дар вилояти Хатлон ва Нохияхои тобеи чумхурй», фармоиш медихам:

1. Тачхизотхои пешниходнамудаи Агентии Цопон оид ба хамкорихои байналмилалй ба таври зайл супорида шаванд:

Nº	Номгуй	Миқдор (адад)	Соли истехсол	Арэнш (дол.ИМА)	Арзиши умумй (дол.ИМА)	Муассисам вобаста
1.	Тацхизоти раками барон санцидани сатхи нохамвории рох	2 адад	2014 (1188)	2000	4000	МД «Идорахон хочагии роххон автомобилгарди минтақахон Кургонтенпа ва Хисор»
2.	Ноутбук (Acer, Aspire E1-572G)	2 адад	2013 (1108)	685	1370	МД «Идорахои хочагии роххои автомобилгарди минтақахои Қургонтеппа ва Хисор»
3.	Суратгираки рақами (PENTAX WG-3 GPS)	4 адад	2013 (Han)	228	912	МД «Идорахои хочагии роххои автомобилгарди минтақахои Кургонтеппа ва Хисор»
	Ҳамаги	8 a.a.a.a		-	6282	

Эзох: курби асьор ба санаи 11.04.2014с. – 1 дол.ИМА = 4,831 сомонй.

2. Сардорони Муассисахои давлатии «Идорахои хочагии роххои автомобилгарди минтакахои Кургонтеппа (Нуруллоев Б.) ва Хисор (Мирзоев О.)»:

- дар асоси санад тачҳизотҳои зикршударо ба мувозинаи муассисаҳо ворид карда, дар мувозина тағйироти даҳлдор ворид намоянд ва истифодаи самараноки онҳоро зери назорати қатъй карор диҳанд;

- дар асоси қарори Ҳукумати Ҷумҳурии Тоҷикистон таҳти №320 аз 4 июли соли 2006 ба мувозина гузаронидани воситаҳои асосии мазкурро бо Кумитаи давлатии сармоягузорй ва идораи амволи давлатии Ҷумҳурии Тоҷикистон мувофиқа намоянд.

3. Назорати ичрои фармоиши мазкур ба зиммаи муовини якуми Вазир Ганчалов Ш.Р. вогузор карда шавад.

or for

Вазир

Х. Асозода

Фиристода шавад: РСХР, РМБМ, МД «ИХРА минтакахои Кургонтеппа ва Хисор»



县隆起 For

Искренне Ваш, Хироши МИТА Главный советник, Группа Экспертов ЛСА



jîca)

The Project for Improvement of Road Maintenance

Исх.No.:JICA-CTI November 14

14 November, 2016

To: Ministry of transport of the Republic of Tajikistan

Reference: The Project for Improvement of Road Maintenance

Subject: Hand over DRIMS Case under the framework of the Project for Improvement of Road Maintenance

Dear Sir,

The Experts Team is pleased to inform your good selves that the team will provide DRIMS equipment case as mentioned below.

The DRIMS equipment case will be handed over based on the ID of DRIMS Equipment such as Case ID 01, 02 for Gissar SETM and Case ID 03, 04 for Kurgan-tyube SETM.

ID	Item	SETM	Piece	Production year	Unit price USD	Total USD
01,02	DRIMS Case	Gissar	2	2016	530	1060
03,04	DRIMS Case	Kurgan- tyube	2	2016	530	1060

Provision is based on understanding that such supply will be effective for the long lasting use of equipment.

Very truly yours,

Hiroshi MITA Chief Advisor, JICA Experts Team

そっからう

Attachment: DRIMS equipment case photo



Project Completion Report The Project for Improvement of Road Maintenance

29 July, 2015



The Project for Improvement of Road Maintenance

Ref. No.: JICA-CTII

Mr. Mirzoev Sunrob First Deputy Minister Ministry of Transport Republic of Tajikistan

Reference: The Project for Improvement of Road Maintenance

Subject: Hand over and Installation of JICA Supplied laboratory equipment for Quality Control

Dear Sir,

Please kindly be informed that on the 16<sup>th</sup> of June, 2015we have successfully handed over JICA supplied laboratory equipment to Gissar and Kurgan-Tyube regions for quality control.

The installation of laboratory equipment for Quality Control was done on the 22<sup>nd</sup> of June, 2015 in Gissar region in Vahdat laboratory and on the 15<sup>th</sup> of July, 2015 was successfully installed and checked by connecting in power in Kurgan-Tyube region in Jilikul laboratory.

We look forward for your continuous cooperation and support.

Very truly yours,

For A.") ===== Mr. Hirosni MITA Chief Adviser, JICA Project Team

Cc: State Enterprises on Transport Management of Gissar region State Enterprises on Transport Management of Kurgan-Tyube region

No	Item	Q	uantity	Model
1	Manual Marshall Compaction	2	Nos	DS-63
2	Marshall Base Plate	6	Nos	DB-15
3	Marshall Collar	6	Nos	DB-15-C
4	Marshall Mold	24	Nos	DB-15-1
5(1)	Marshall Specimen Extruder (without Hydraulic Jack)	2	Nos	DS-80M
6	Digital Thermometer	2	Nos	DP-350
7	Sensor for Thermometer	2	Nos	JB-16
8	LP Gas Ring	2	Nos	DL-300
9	Rectangular Sample Pans	12	Nos	DL-41
5(2)	Hydraulic Jack for Marshall Specimen Extruder	2	Nos	DS-80M

C/No.	Type of package	No.	Description	Model/Specifications	Q'ty	Net weight	Gross weight	Measurement
	L					(kg)	(kg)	
			a			244	340	1570×920×1100
		4	Core drilling machine	TA-342	2			1.589M3
1	Case			Inc. Instruction manual 2 pc/set				
		5	Blade for above	φ100*300mm	4			
						256	340	/00×10/0×1960mm
		6	Asphalt compaction machine	TA-352	2			1.468M3
				Accessories				
2	Case			• Cable : 3.5SQ 3P/VCT cord				
				• Spare rammer (4.5kg) : 1pc				
				Instruction manual 2 pc/set				
						80	140	800×770×1110mm
		8	Marshall apparatus	A-11/A-12/A-13/A-14/A-15	2			0.684M3
				Accessories :				
	Case			Prooving ting : 50kN				
				Test head : 1 pc/set				
				Flow meter : 2 pcs/set				
3				Mould : 3 pcs/set				
				Collar : 3 pcs/set				
				Base plate : 1 pc/set				
				Cable : 3.5SQ 3P/VCT cord 5M/set				
				Instruction manual 2 pcs/set				
						138	250	1520×1390×950mm
		9	Stand for Marshall apparatus	Stand for above apparatus	2			2.007M3
4	Case			W600*D500*H650mm, SS400				
						203	320	$1760 \times 970 \times 1280$ mm
-	Corre	30	Constant temperature oven	TG-112	1			2.185M3
Э	Case			Instruction manual 2 pcs/set				
						203	320	1760×970×1280mm
		30	Constant temperature oven	TG-112	1	200	520	2 185M3
6	Case			Instruction manual 2 pcs/set	1			2.1051415
Ŭ	Case			Per set				

						645	820	470×2200×1530mm
		1	Step-down transformer	LD21-01KF2+TYC-500	2			4.948M3
		2	Step-down transformer	3SD-05KB+TYC-05K	2			
		3	Step-down transformer	3SD-075KB+TYC-05K	2			
				55D-075KB+11C-05K				
		7	Tampar	A 10	2			
		/		A-19	2			
7	Case	10	Test head	A-14	2			
		11	Flow meter	A-13	8			
					0			
		12	Stainless beaker	G-14_5000cc	6			
		12			0			
		12	Polysthylene besker	5000-22	c			
		15	1 olystily che beaker	500000	0			
			0(	C 14 2000				
		14	Stainless beaker	G-14 3000cc	6			
		15	Polysthylene beaker	3000cc	6			
		16	Stainless beaker	G-14 1000cc	6			
		17	Thermometer (Glass rod)	G-23d	4			
		18	Digital thermometer	DP-350	2			
				including needle type sensor				
				Instruction manual 2 pc/set				
		19	Rod type sensor for above	JB-16-3C	6			
		20	Asphalt curing bath	TA-306	2			
				Instruction manual 2 pcs				
		21	Dial gauge 20mm	DG-17	10			
					10			
		22	Test sieve for asphalt	TA-332	1			
				Stainless made				
				Opening : $75\mu$ m , $150\mu$ m , $300$				
				2.00mm 、 2.36mm				
r								
				4.75mm、9.5mm、13.2				
7	Case			mm、19.0mm、26.5mm、31.5mm、				
				75 0mm, 90 0mm				
				,				
				Accessory : Receiver, cover 1 pc				
				each				
		22	Test sieve 0.075mm	TC 242	4			
		23		10-242	4			
			Qualitations to a face	0.17	-			
		24	Stainless basket	C-17	2			
		25	Electronic balance	GF-6000	2			
			with stand & water bath	Instruction manual 2 pcs/set				
				Stand, Water bath				

1	1		İ					
		26	Electronic balance	GF-2000	2			
				Instruction manual 2 pcs/set				
		27	Enamelled tray	G-322 W495×D335×H70mm	8			
		28	Enamelled tray	G-322 W365×D275×H55mm	20			
		29	Caliper 30cm	GT-102c	2			
		31	Consumablews	Contents :				
		31 - 1	Waste cloth	Cotton 100% 5kg /set	2			
		31 - 2	Leather glove	2 pairs/set	2			
		31 - 3	Working gloves	3 dozen/set	2			
		31 - 4	Tammping rod	φ16*500mm 1pc/set	2			
		31 - 5	Core storage case	2 pcs/set	2			
		31 - 6	Plastic hammer	400 g L=300mm	2			
		31 - 7	Wooden hammer	φ50mm L=300mm	2			
		31 - 8	Filter paper	φ100mm 5 packs/set	2			
		31 - 9	Mixing bowl	φ300mm 3 pcs/set	2			
		31 - 10	Mixing spoon	L=300mm 5pcs/set	2			
		31 - 11	Hand scoop	L=286mm roud type 3 pcs/set	2			
		31 - 12	Hand scoop	L=286mm Square type 2 pcs/set	2			
		31 - 13	Spatula	L=/245mm 5pcs/set	2			
		31 - 14	Spatula	L=/215mm 5pcs/set	2			
		31 - 15	Wire brush	L=130mm Brush: brass : 1 pc/set	2			
		31 - 16	Wire brush	L=130mm Brush : steel, 1 pc/set	2			
		31 - 17	Bymetal thermometer	: 0~200°C φ110mm 2pcs/set	2			
		31 - 18	Bymetal thermometer	0~200°C : φ80mm 1 pc/set	2			
	Total		Seven(7) cases			1,769	2,530	15.066M3

# HAND OVER JICA SUPPLIED LABORATORY EQUIPMENT FOR QUALITY CONTROL FOR GISSAR REGION



No.2 Asphalt Compaction Machine, No.2-1 Cable, No.2-2 Spare rammer (4.5kg), No.2-3 Instruction manual, No.9 Tamper



Item No. & Description:

No.22 Test Sieve for Asphalt, 22-1 Size: 75mm, 150mm, 300mm, 425mm, 600mm, 1.18mm, 2.00mm, 2.36mm, No.22-2 Size: 4.75mm, 9.5mm, 13.2mm, 19.0mm, 26.5mm, 31.5mm, 37,5mm, 53.0mm, 63.0mm, 75.0mm, 90.0mm, No.22-3 Receiver, cover one pcs each, No. 23 Test sieve 0.075mm TC 242



Item No. & Description:

No. 3 Marshall Apparatus, No.3-1 Proving ring 50kN, No. 3-2 Test head, No.3-3 Flow meter, No.3-4 Mold, No. 3-5 Collar, No. 3-6 Base plate, No.3-7 Cable, No. 3-8 Instruction manual, No.10 Test head, No.11 Flow meter, No.20 Constant Temperature Oven



Item No. & Description:

No.1 Manual Marshall Compaction, No.2 Marshall Base plate, No.3 Marshall Collar, No. 4 Marshall Mold, No.5 Marshall Specimen Extruder with Hydraulic Jack, No. 7 Sensor for digital thermometer, No.8 LP Gas Ring, No.9 Rectangular Sample Pans

# INSTALLATION OF JICA SUPPLIED LABORATORY EQUIPMENT FOR QUALITY CONTROL FOR IN GISSAR REGION, VAHDAT AP LABORATORY



Item No. & Description: No.2 Constant Temperature Oven TG-112



Item No. & Description: No.4 Asphalt Curing Bath TA-306



Item No. & Description: No. 6 Marshall Specimen Extruder



Item No. & Description: No. 7 Core drilling machine TA-342 with Blade 100\*300mm

# HAND OVER JICA SUPPLIED LABORATORY EQUIPMENT FOR QUALITY CONTROL FOR KURGAN-TYUBE REGION

Hand Over JICA Supplied Laboratory Equipment Figure 1



### Item No. & Description:

No. 12 Stainless beaker, No. 13 Polyethylene beaker, No. 14 Stainless beaker, No. 15 Polyethylene beaker, No.16 Stainless beaker, No. 17 Thermometer (Glass rod), No. 18 Digital thermometer, No. 19 Rod type sensor for Digital thermometer, No. 21 Dial gauge 20mm, No. 27 Enameled tray, No.28 Enameled tray, No. 29 Caliper 30cm, No.30-1 Waste Cloth, No.30-2 Leather glove, No. 30-3 Working gloves, No.30-4 Tamping rod, No. 30-5 Core Storage Case, No. 30-6 Plastic hummer, No. 30-7 Wooden hummer, No. 30-8 Filter paper, No. 30-9 Mixing bowl, No. 30-10 Mixing spoon, No. 30-11 Hand scoop, No. 30-12 Hand scoop, No.30-13 Spatula, No. 30-14 Spatula, No.30-15 Wire brush, No. 30-16 Wire brush, No.30-17 Bimetal thermometer, No. 30-18 Bimetal thermometer Hand over JICA supplied laboratory equipment

Figure 2



#### Item No. & Description:

No. 22,22-1,22-2 Test Sieve for Asphalt-TA332, Opening: 75mm,150mm,300mm, 425mm, 600mm, 1.18mm, 2.00mm, 2.36mm, 4.75mm,9.5mm, 13.2mm, 19.0mm, 26.5mm, 31.5mm, 37.5mm, 53.0mm, 63.0mm, 75.0mm, 90.0mm, No.22-3Receiver, cover 1pc each, No.23Test Sieve 0.075mm TC-242

Hand over JICA supplied laboratory equipment Figure 3



Item No. & Description:

No.3 Marshall Apparatus, Accessories: No.3-1Proving ring 50kN, No.3-2 Test head, No.3-3 Flow meter, No. 3-4Mold, No.3-5 Collar, No. 3-6 Base plate, No.3-7Cable 3.5SQ3P/VCT, Instruction manual, No. 4 Stand for Marshall Apparatus, No.10 Test head, No. 11 Flow meter, No.20 Asphalt curing bath Hand over JICA supplied laboratory equipment

Figure 4



Item No. & Description:

No. 1 Core drilling machine, No.1-1 Blade for core drilling machine, No.2 Asphalt compaction machine, No.2-1 Cable, No.2-2 Spare rammer (4.5kg), No. 2-3Instruction manual, No.5 Constant Temperature oven, No. No.6 Step-down transformer LD21-01KF2+TYC-500, No.7 Step-down transformer 3SD-05KB+TYC-05K, No.8 Step-down transformer 3SD-075KB+TYC-05K, No. 24 Stainless basket, No.25 Electronic balance GF-6000, No.25-1 Stand, No.25-2 Water bath



Item No. & Description:

No. 1 Manual Marshall Compaction, No.2 Marshal Base Plate, No.3 Marshall Collar, No.4 Marshall Mold No. 5Marshall Specimen Extruder with Hydraulic Jack, No.7 Sensor for digital thermometer, No.8 LP Gas Ring, No.9 Rectangular Sample Pans

# INSTALLATION OF JICA SUPPLIED LABORATORY EQUIPMENT FOR QUALITY CONTROL IN KURGAN-TYUBE REGION, JILIKUL AP LABORATORY



Item No. & Description: No.2 Constant Temperature Oven TG-112

Installation of JICA supplied laboratory equipment Figure 3



Item No. & Description: No. 3 Marshall Apparatus and Stand for Marshall Apparatus

Installation of JICA supplied laboratory equipment Figure 4



Item No. & Description: No.4 Asphalt Curing Bath TA-306

Installation of JICA supplied laboratory equipment Figure5



Item No. & Description: No.5 Electronic balance GF-6000 with stand, water bath and Stainless basket

Installation of JICA supplied laboratory equipment Figure6



Item No. & Description: No. 6 Marshall Specimen Extruder

<image>

Item No. & Description: No. 7 Core drilling machine TA-342 with Blade 100\*300mm



The Project for Improvement of Road Maintenance

### Исх.No.:JICA-CTI November 28

**28 November**, 2016

To: Ministry of Transport of the Republic of Tajikistan

Reference: The Project for Improvement of Road Maintenance

Subject: Hand over printer Canon 2520i under the framework of the Project for Improvement of Road Maintenance

Dear Sir,

The Experts Team is pleased to inform your good selves that due to completion of the Project for Improvement of Road Maintenance printer Canon 2520i will be handed over to Ministry of Transport.

Current printer Canon 2520i was used during realization of the Project for Improvement of Road Maintenance.

Very truly yours,

Z VD T5 J Hiroshi MITA

Chief Advisor, JICA Experts Team