

REPORT ON DO-NOU TRAINING IN BURKINAFASO BY CORE RWANDA


Introduction

This report covers the activities conducted during the Do-nou training in Burkina Faso by CORE Rwanda organized by JICA Burkina Faso. The main objective of the training was to equip with Do-nou technology for road maintenance the main actors of road maintenance for them to become future trainers. The main participants of the training were 31 burkinabes from different sectors namely :16 National Volunteers, 9 Special delegates from provinces and 6 Engineers from Ministry (in charge of roads and urbanization) and affiliated Agencies. The tables below describe training processes and covered topics.



Summary of Activities

DATE	MAIN ACTIVITY	PLACE	PARTICIPANTS
October	Preparation of training. Guidance on site selection and necessary tools and materials	Sharing through emails	CORE and JICA Burkinafaso team
29 th -30 th November 2022	TRAVEL	FROM RWANDA TO BURKINAFASO(Kigali-Ouga)	Mme SIFA YVONNE, M. NTAKIRUTIMANA Obed
1 st -4 th December 2022	Preparation of practical training	JICA OFFICE, SITE	Mme SIFA YVONNE, M. NTAKIRUTIMANA Obed,JICA Staff
5 th -10 th December 2022	Actual Training	JICA OFFICE,SITE	CORE TEAM, JICA Staffs,Trainees
11 th -12 th December 2022	TRAVEL	FROM BURKINAFASO TO RWANDA.Ouaga-Kigali	Mme SIFA YVONNE, M NTAKIRUTIMANA Obed



Detailed Activity program

Date	Activity	Note	Picture
1 st December,2022	<p>Small meeting with JICA staffs</p> <p>Field visit to the proposed training sites:</p> <ul style="list-style-type: none"> -confirmation of the road section/part to be repaired in training. -Confirmation of murrum quarry 	<p>The training site was confirmed in Ouagadougou city -Zone 1, a residential area with high traffic mainly composed by motorcycles and bicycles for local access.</p> <p>Site condition</p> <p>The road section had wide potholes and clogged side drains making the road difficult to use and uncomfortable for travelers. The average width of the road was 9m and the training portion was of 40m long.</p>	
2 nd December,2022	-Checking of tools at JICA office	Hand rammers were not well fabricated, CORE team advised the supplier to increase the thickness of the handle	
3 rd December 2022	Checking of training materials and tools at hotel	Supplier promised to bring material of good quality especially boots and reflectors.	



First Day of Training-Theory session :5th December,2022

Time	Activity	Participants	Picture/Note
10:45AM -12:30 AM	<p>Introduction to earth road maintenance Presentation on Do-nou technology (definition, characteristics, Materials, tools, Planification, Do-nou technology's application procedures).</p> <p>Question and Answers.</p>	<p>CORE Team JICA Staffs National volunteers Special delegates</p>	
12:30 AM -1:30PM	Lunch Break		
1:30PM-4:30PM	<p>2ND Presentation:</p> <ul style="list-style-type: none"> -Maintenance of Do-nou Road <p>Questions and exchange</p> <ul style="list-style-type: none"> -Estimation of materials and direct costs <p>Questions and exchange</p> <ul style="list-style-type: none"> -Documentary Video of Do-nou Application -Groups making and distribution of safety gears 		 <p>Check the attached questions and answers for this presentation</p>

Second Day of Training :6th December 2022

Time	Activity	Participants	Picture/Note
9:00AM-12:30AM	<ul style="list-style-type: none"> - Recall on site safety and training purpose -Explanation on site identification and Data collection. Demonstration of basic practice of Do-nou technology(filling bags,tying) -General Site clearance 	<ul style="list-style-type: none"> -CORE Team -JICA Staffs -National volunteers -Special delegates 	
12:30AM-1:30PM	Lunch Break		
2:00PM-4:30PM	-General site clearance and marking of damaged area		




Third Day of Training, 7th December 2022

Time	Activity	Participants	Picture/Note
9:00AM-12:30AM	<ul style="list-style-type: none"> Recall about previous day activities and comments Explanation of the target of the day Demonstration (laying bags, compaction) to participants. Practice on bags filling, tying and compaction 	<ul style="list-style-type: none"> -CORE Team -JICA staffs -National volunteers -Special delegates 	
12:30AM-1:30PM	Lunch Break		
2:00PM-4:30PM	<ul style="list-style-type: none"> Practice on bags filling, tying laying and compaction. 		



Fourth Day of training ,8th December2022

Time	Activity	Participants	Picture/Note	
9:30AM-12:30AM	<ul style="list-style-type: none"> Recall of the task of the day and Donou procedures Practice on application of wearing course Receiving visitors from JICA Burkina and other government institutions 	<ul style="list-style-type: none"> -CORE Team -JICA Staffs -National volunteers -Special delegates 		
12:30AM-2:00PM	Lunch Break			
2:00PM-4:30PM	<ul style="list-style-type: none"> Compaction of Do-nou bags Application of wearing course 			

Fifth Day of Training, 9th December 2022

Time	Activity	Participants	Picture/Note
9:30AM-12:30AM	<ul style="list-style-type: none"> • Recall on site safety and field finishing activities. • Practice on application of wearing course • Final compaction • Results from practical training <ul style="list-style-type: none"> ❖ Total Area covered =325m² ❖ Maximum layers of Do-nou =4layers ❖ Minimum layers applied=1layer 	<ul style="list-style-type: none"> -CORE Team -JICA Staffs -National volunteers -Special delegates 	
12:30AM-2:00PM	Lunch Break		
2:00PM-4:30PM	<ul style="list-style-type: none"> • Final compaction • Site cleaning 		

Sixth day, 10th December 2022

Time	Activity	Participants	Picture/Note
9:00AM	Evaluation and group discussion (Special delegates and government representatives were given work different from that of National volunteers as we expected those officials to make action plans	<ul style="list-style-type: none"> -CORE Team -JICA Staffs -National volunteers -Special delegates 	<p>Government staffs in group discussion</p> 
10:30AM	Presentation		<p>Presentation of feedbacks</p> 
11:00	Distribution of certificate and closing ceremony		

Conclusion

The program was conducted as planned and it has been fruitful, participants were provided with enough package of Do-nou technology in earth roads maintenance and related documents for references. Through the evaluation of National volunteers, it was confirmed that they can disseminate Do-nou technology in their region of origin and Special delegates' evaluation and action plans in regard to use of Do-nou technology showed that Do-nou technology can be adopted in different Burkina Faso government 'road policies.

Recommendations:

- Extension of the time of practical training to allow trainees to learn smoothly.
- Provision of two to five casual labors at last stage of practical works to support the trainees especially for laying wearing course otherwise they get tired and loose interest.

Some of Question and Answers for the Do-nou Technology presentation

Q1: What can we do if we don't have the cylindrical jerrican to measure the quantity of soil?

Resp: The important aspect is to know that each bag contains approximately 20kgs of soil which is about 16litre of water means any jerrican size can be used after filling 16litre of water then cut to the level of the water will be good container.

Q2: How to confirm the moisture content in the soil to be used in Do-nou technology without going for laboratory tests, for villagers?

Ans: Physical test at field can be done to confirm Moisture content by using handful of damp sample and molding into ball where if after molding the sample stick together, the moisture is good and when it disintegrates then the sample is too dry.

Q3: Is it necessary to use Only bags of 45cm to 60cm? if they are not available, what can we do?

Ans: using the 45cm to 60cm is to have the same standard bags in the training, strong compacted to the same level and easy for transportation by any one from works but the available used bags in the area of 25kgs packages for rice, sugar, fertilizers and cement can be reused for Do-nou technology by putting the same quantity of soil, laying the same manner and apply the same compaction

Q4: is it easy to confirm camber formation manually?

Ans: It is very easy by using masonry string to the road surface through forming the hexagonal figures then the final compaction done by following to the level of string to confirm if the height on road crown is higher to road edges and confirm by using spirit level.

Q5: How to protect sides bags from exposure? We tried to use bags in our village but many of bags near drainage are exposed

Ans: While placing bags along the roadway, it is necessary to keep a space of 40cm minimum between last line of bags and drainages. That space is filled with soil and well compacted to protect bags from exposure. And if the road is too narrow to let 40cm apart, side bags can be covered with stabilized soil.

Thank you! Let us repair our roads by ourselves!