

Action Plan

Name	Bishnu Prasad Gotame
Country	Nepal
Organization	Government of Nepal Ministry of Education National Center for Educational Development, Educational Training center, Surkhet
Position	Trainer (Mathematics Education)

Title	Improvement in mathematics achievement
Period	FY 2010 to FY 2011 (BS 2067/68 to 2068/79)
Target Location	Surkhet Training Zone (11 District) Focus on Surkhet District
Target Group	Teacher (working in Primary and Secondary level) Mathematics

NARRATIVE SUMMARY	
Over All Goal	
Improve mathematics achievement through improved teaching learning practice in basic level and secondary level.	
SPECIFIC OBJECTIVES (PROJECT PURPOSE)	
Improve the mathematics teaching style through improved teaching methods and lesson study in primary level (lesson plan, teaching methods, materials development)	
My Learning in Japan	
<ol style="list-style-type: none"> 1. Daily report writing style. 2. Teaching methods in mathematics (developing thinking in student) 3. Text book content arrangement, text book development, use of text book and content delivery techniques. 4. Open ended and hands on mathematics. 5. Origami in teaching mathematics. 6. Lesson study 7. Development of lesson to apply problem solving approaches in mathematics teaching. 8. Japanese Education and teacher training system. 9. Achievement test in mathematics and Japanese student mathematics achievement. 10. Preparation of d-book, eBooks and GCL in teaching mathematics and visualization of mathematics. 11. Making project and developing action plan. 12. Teaching learning process/ activities in mathematics in Japanese school. 13. School goal setting, school learning environment. 14. Blackboard writing plan and techniques. 15. ICT and mathematics integration. 	
OUTPUTS by applying your learning in Japan	
Output 1: Sharing and action plan approved	

<p>Output 2: New mathematics Teacher Training Manual Developed (based on problem solving approach, open ended approach, ICT in mathematics, hand on mathematics. (Japanese text book is considered for elementary teacher training manual)</p> <p>Output 3: 275 teacher get training on mathematics from Surkhet Training Zone. 25 teachers from each district of 11 districts. Mathematics classroom activity improved.</p> <p>Output 4: 25 Secondary level teacher from Surkhet get training on mathematics teaching. Mathematics teaching situation improved.</p> <p>Output 5: 25 Primary teacher form Surkhet district use lesson study (ETC lab school practice lesson study approaches in mathematics and student achievement in mathematics increased.</p> <p>Output 6: Grade 1 mathematics and Training manual developed in d-book.</p>
ACTIVITIES (action)
<p>Output 1: Sharing and action plan approved</p> <p>Activity 1-1: Organize sharing workshop in organization. Present the action plan that submitted to JICA. Re-plan adjust office programme and finalized the plan.</p> <p>Output 2: New Teacher Training Manual Developed That Integrate All The Learned Contents In Japan Training</p> <p>Activity 2-1 Teacher demand collect from different districts. All RC are responsible to collect teacher Demand.</p> <p>Activity 2-2 collect all the demands in the training Center and then these contents, integrated into training manual. These demand will be clustered and finalize to set training contents. (Demand content and problem solving approach, open ended approach, lesson study approach, hand on approach, origami in teaching mathematics, blackboard writing, school goal setting, Japanese mathematics book, three way of thinking will be integrated)</p> <p>Activity 2-3: Develop Training manual (Manual Writing) for five days training workshop for 1 module and distribute to all Resource Center/ Training Centers, Lead RC. Teacher gets 3 modules within 2 years from first module competition.</p> <p>Output 3: 275 teacher get training on mathematics from Surkhet Training Zone. 25 teachers from 11 districts on the basis of new content.</p> <p>Activity 3-1: Provide 5 days training workshops for teacher through different Resource Center of different District.</p> <p>Activity 3-2: Provide support to the trainer for new strategies of training. Every teacher has to develop action plan, give at list 2 Project work in their school through new teaching Methods "Thinking How After/what next? Why? ". They will counsel after their project competition. Lesson study approach practice in small scale.</p> <p>Activity 3-3: Provide continuous monitoring and follow up support to the teacher.</p> <p>Output 4: 25 Secondary level teacher from Surkhet get training on mathematics teaching. Mathematics teaching situation improved.</p>

Activity 4. 1: Develop Teacher Training manual on problem solving approach, open ended approach, lesson study approach, and hand on approach, origami in teaching mathematics, blackboard writing and school goal three ways of thinking, Lesson plan and action plan.

Activity 4. 2: 25 secondary mathematics teacher will select from Surkhet District on the basis of popularity, previous training, their demands, Teacher Professional Development Quotas. At list one from each Resource Center.

Activity 4. 3: Conduct 5 days training workshop.

Activity 4. 4: Gave 2 project works for 20-30 days to apply problem solving approach, open ended approach, hand on approach, blackboard writing, using the Japanese style Lesson plan.

Activity 4. 5: Conduct Lesson Study exercise and School workshop (We have 2 days educational counseling for trained teacher).

Activity 4. 6: Develop and improve teaching methods in mathematics teaching on the basis of their prepared lesson plan. (Model lesson Presentation by trainer)

Output 5: 25 Primary teacher form Surkhet district use lesson study (ETC lab school and some other school practice lesson study approaches in mathematics and student achievement in mathematics increased.

Activity 5. 1: Conduct head teacher orientation and discussion workshop (1 day)

Activity 5. 2: Conduct 5 days training for elementary math/ (Math + science) teacher on lesson study approach. (School must be selected for Surkhet Valley and Priority will be given be the interested school teacher).

Activity 5. 3: Conduct Project work in school by trainee to apply new teaching methods.

Lesson study approach practice in school through these trained teacher. They improve their teaching ability and quality through lesson study approach.

Activity 5. 3: Provide support for the teacher Resource Persons and School Supervisor to conduct lesson study in school effectively.

Activity 5.4: 2 day workshop on lesson study, analysis of the implementation problems and effectiveness in teaching and student achievement. Develop lesson study model school.

Output 6: Grade 1 mathematics and Training manual developed in d-book.

Activity 6.1: Develop d-book by using d-book software as model.

Activity 6.2: Distribute d-book for school that uses lesson study approach.

Government of Nepal
National Center for Educational Development

Educational Training Center, Surkhet

Improving Teaching methods through Lesson study

SN	OutPut	Activites	Expected Result	Time schedule(Months) 20 11												Person in Charge	Implimentars	Materials Equipment	Budget Nepali Rs.	Remarks
				3	4	5	6	7	8	9	10	11	12							
1	Sharing and action plan approved	Organize sharing workshop	Organization staff well known about the plan and Japane traing												Bishnu Gotame	Bishnu	All the JICA Training Hand outs and Phots/Vedios	10000/-		
		Submmit action plan that submitted to JICA	familiar with JICA action plan												Bishnu Gotame	Bishnu	action plan			
		Re-plan adjust office programme and finalized the plan	action plan reformed												Bishnu Gotame	Office staff	JICA Training hand ours	5000/-		
2	New mathematics Teacher Training Manual Developed	Teacher demand collection	Demand collected												Bishnu Gotame	Resource Person		5000/-		
		Compilation of Demands in ETC	Training Centent developed												Bishnu Gotame	Trainers		10000/-		
		Develop Training manual	Training Manual Developed												Bishnu Gotame	Trainers	JICA Training of different approach , Japanese Mathematics text books	50000/-		
		Teacher Training Manual distribution	Each RC/LRC and Training Center get Teacher training												Bishnu Gotame	Hikmad shahi		10000/-		
3	275 teacher get training on mathematics from Surkhet training Zone.Mathematics classroom activity improved	Teacher Selection	Teacher selected for training												Bishnu Gotame	DEO, RC		10000/-		
		Provide 5 days training workshops	275 teacher trained on the basis of new content												Bishnu Gotame	Resource Person	JICA trainig Hand outs/Text book	900000/-		
		Project work conduction	Problem solving approach, open hand approach, hand on approach practice in school												Bishnu Gotame	Trainer/ Head Teacher		275000/-		
		Follow up/ backstopping	Teacher and Trainer get support and												Bishnu Gotame	Trainers		100000/-		
		Educational counceling and lesson study exercise	lesson study practiced in small scale												Bishnu Gotame	Bishnu/Traine	JICA trainnig hand our related to lesson study and Lesson Study vedio	50000/-		

		Evaluation of effectiveness	impact of new training on student achievement found													Bishnu Gotame	Bishnu	PISA Test Items	15000/-
4	25 Secondary level teacher from Surkhet get training on mathematics teaching. Mathematics teaching situation improved.	Develop Teacher Training manual (problem solving, open ended, lesson study, hand on approaches, origami in teaching mathematics, blackboard writing, three ways of thinking, Lesson	New Training Manual Develop													Bishnu Gotame	Bishnu	JICA training hand outs, Red Dragonfly mathematics challenges other documents	50000/-
		Select school and Mathematics Teacher identified	Participant teacher identified													Bishnu Gotame	DEO		5000/-
		Conduct 5 days training workshop.	Teacher got training based on new content													Bishnu Gotame	Trainers	JICA Training Hand ours book by Prof. Isoda and Special Issues	100000/-
		Gave 2 project works for 20-30 day per participant to use new teaching approaches	Japanese Mathematics Teaching approaches applied in School													Bishnu Gotame	HT/RPs Teacher	Lesson study Vedio	25000/-
		Conduct Lesson Study exercise and School workshop	well known about Japanese lesson study approach													Bishnu Gotame	Trainer	JICA Training Hand ours book by Prof. Isoda and Special Issues Lesson study	25000/-
		Model lesson Presentation by trainer	Teacher refined their teaching style													Bishnu Gotame	Trainer	Japanese Lesson Plan	5000/-
5	22 Primary teacher form Surkhet district use lesson study	Conduct head teacher orientation and discussion workshop	Develop positive thinking to apply Lesson study approaches in school													Bishnu Gotame	Bishnu/Traine	Lesson Study Ducoment	10000/-
		elementary math/ (Math + science) teacher on lesson study approach.	Teacher got training on lesson study and other new approaches in mathematics													Bishnu Gotame	Trainer	JICA Training Hand ours book by Prof. Isoda and Special Issues	50000/-
		Conduct Project work in school by trainee to apply new teaching methods	New teaching method applied in school													Bishnu Gotame	Trainer/ RP/ HT	JICA Training Hand ours book by Prof. Isoda and Special Issues	22000/-
		Lesson study approach practice in school	lesson study practiced													Bishnu Gotame	Trainer	Lesson Study Ducoment	30000/-

		conduction of 2 day workshop on lesson study, analysis and evaluation meeting	realized the importances of lesson study approache in teacher professional development											Bishnu Gotame	Trainer	PISA Test Items	10000/-
		Develop lesson study model school.	Lesson study Model school established											Bishnu Gotame	Trainer		30000/-
6	Grade 1 mathematics and Training manual developed in d-book.	Develop d-book by using d-book software as model	d-book developed											Bishnu Gotame	Bishnu	d-book software, hand outs	10000/-
		Distribute d-book for school that uses lesson study approach.	Lesson study school have d-book											Bishnu Gotame	Hikmat		5000/-
Total Cost																	

