

**Report on Capacity Building  
Workshop of Teachers for  
Foundation Camp under Secondary  
School Readiness Programme,  
Odisha 15th to 17th February 2016,  
Hotel Swosti Premium, Jaydev Vihar,  
Bhubaneswar**

Odisha  
Madhyamik  
Sikshya Mission  
and RMSA-TCA

Bhubaneswar

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# **Report on Capacity Building Workshop of Teachers for Foundation Camp under Secondary School Readiness Programme, Odisha**

*15<sup>th</sup> to 17<sup>th</sup> February 2016, Hotel Swosti Premium, Jaydev Vihar, Bhubaneswar*

Teachers are the pivotal in the education system. Teachers need to build up their teaching skills as well as their content knowledge in order to effectively facilitate teaching learning process. Several reports suggest the under achievement of students in secondary schools because of less participation of students in classroom activities. One way teaching still prevails in secondary schools where the teacher uses lecture methods to teach a topic. At present a new paradigm shift is needed in order to enhance the learning level of students in secondary stage of education.

The Secondary school readiness program was piloted in 10 secondary schools (4 Urban schools, 4 Rural schools, 1 Tribal school and 1 Minorities school) of Khordha district under the flagship of OMSM and RMSA-TCA. The diagnostic test was developed taking into account the learning indicators from class III to IX. From each class, Learning Indicator were discussed and taking few learning indicators items were developed for each subject. A total number of 40 test items were given in each subject. The diagnostic test on Science, Math and Odia (MIL) was administered in 10 secondary schools of Khordha in the month of December 11<sup>th</sup> and 12<sup>th</sup> 2015. A total number of 317 students in Science and Odia and 298 students in Math appeared the diagnostic test. Along with the diagnostic test context study was also done in 5 sample schools in order to have an insight of the background of students, teachers and school as a whole.

After the diagnostic test, the test papers were evaluated by the state resource persons of OMSM at RMSA-TCA office and school wise as well as child wise, item wise response was entered by RMSA-TCA team members. The correct response “y”, wrong response “N” and partially correct “P” was entered to tabulate the performance of students. Item wise percentage was calculated and histograms were plotted to show the level of students in class IX. Knowing the achievement level of students few subject wise learning indicators were chosen for the SSRP Material development workshop. The subject expert group developed learning materials for students and teachers in the four day workshop held from 8<sup>th</sup> February 2016 to 11<sup>th</sup> February 2016. 30 teachers from 10 Piloted schools (1 for Science, 1 for Math and

1 for Odia) of Khordha District, Odisha were invited to attend the 3 day Capacity building workshop which was held from 15<sup>th</sup> February 2016 to 17<sup>th</sup> February 2016 at Hotel Swosti Premium, Bhubaneswar.

The State Resource Group Meeting was organised on 3<sup>rd</sup> February 2016 under the chairmanship of Deputy Director, Quality, Smt Bijaya Patra, OMSM, Odisha. Mr Surendra Singh and Mr Smruti Jena Resource persons of Ignus ERG, Delhi participated in the meeting.

Objective of Capacity Building Workshop were as follows -

- To share the findings of the diagnostic test-Science, Math and Odia (MIL)
- To share the findings of the context study
- To familiarize the teachers with learning materials developed in the SSRP workshop by the subject expert group
- To finalize the next step in SSRP i.e SSRP- Foundation Camp for students

**Participants of Capacity Building Workshop:** In this workshop SRG members of SSRP, OMSM, 30 teachers from 10 piloted Schools, RMSA-TCA, Ignus ERG participated in the workshop. Ignus ERG provided the technical support for the conduction of workshop. The Experts of SSRP are as follows-

1. Smt. Bijaya Patra, Deputy Director, OMSM
2. Prof. Sandhya Sahoo, RIE, Bhubaneswar
3. Asst Prof. B K Panda, RIE, Bhubaneswar
4. Asst Prof S K Dash, RIE, Bhubaneswar
5. A. Baliarsingh, DSS, Khordha
6. A. Pradhan, Asst Teacher (Odia Expert)
7. Smt Bimala Singh, Retd Teacher (Odia Expert)
8. Shri Shiva Prasad Pal, Asst Teacher (Math expert)
9. Shri Prasanta Pradhan, Regional Team Leader, RMSA-TCA
10. Smt Jogamaya Bai, Regional Program Manager, RMSA-TCA
11. Smt Sangita Dash, Regional Project Manager, RMSA-TCA
12. Mr Subir Sukla, Principal coordinator, Ignus ERG, Delhi
13. Mr Surendra Singh, Resource persons of Ignus ERG, Delhi
14. Mr Smruti Jena Resource persons of Ignus ERG, Delhi

*(The detail attendance is attached as annexure)*

**Resources used the SRG meeting:**

1. Excel sheet -Diagnostic test findings-Science
2. Excel sheet -Diagnostic test findings-Math
3. Excel sheet -Diagnostic test findings-Odia
4. Brief Report of Context study
5. Excel sheet-Subject wise, item wise analysis of Students Response
6. Diagnostic question papers-Science, Math and Odia
7. Subject wise materials developed by experts (Science, Math, Odia)

All these were given as hand outs in the workshop to every participants

**Day 1: Capacity Building Workshop of Teachers**

The Capacity building workshop started at 10.30 am with hearty welcome by Team leader RMSA-TCA, Prsanta Pradhan and Deputy Director, Quality, Smt Bijaya Patra, OMSM, Odisha. All the participants in the workshop gave a brief self-introduction. Mr Subir Sukla, Principal Coordinator, Ignus ERG, Delhi briefly indicated "What and Why of SSRP". He also shared his experience, state wise work done, learnings from Bihar and MP under SSRP Program.

The second session was about the process followed for the diagnostic test which was explained by Ms Jogmaya Bai, Program Manager, RMSA-TCA, Bhubaneswar and Ms Sangita Dash, Project Manager, RMSA-TCA, Bhubaneswar. Findings of the diagnostic test was shared in the meeting. Subject wise and Item wise analysis was presented to the SRG. A deep discussion held among the subject experts. After that the context study findings was presented by Ms. Sangita Dash.

Mr. Subir Sukla started the third session with an activity "following instruction". Discussed about the critical pedagogy needed for the learning achievement of the students. Gave various examples why our students are experiencing hardship in participating in the teaching learning process in the secondary stage of education. After lunch, all the teachers were grouped in subject groups such as Science, Math and Odia- in round tables and had through discussion on the item wise analysis of the diagnostic test. In each group 10 school teachers teaching subject such as Science, Math and Odia, subject expert from state resource group member participated in the discussion. The item wise analysis in terms of percentage and gave an insight where our students have problems in understanding the concepts. Taking into account the learning indicators, the state subject group experts gave the suggestions to improve the learning achievement of students.

Mr. Subir Sukla facilitate the next session demonstrating activity for Science, Math and Odia. The main objective was to demonstrate the methodology of teaching a subject. The students should be given motivation to think, reflect and construct their own knowledge. The most important in teaching learning process is experience (E), Reflection (R), Application (A) and lastly Consolidation (C). The ERAC model was discussed with the teachers in detail. After the session the teachers were asked to design activities in order to teach the concepts which they have identified from the diagnostic test results following the ERAC design.

### **Day 2: Capacity Building Workshop of Teachers**

The day two started with the recapitulation of the important take away from previous day. The teachers worked in subject group on developing activities for students in the ERAC design. The first session was devoted for designing activities following the ERAC design. It took a lot of time for teachers to design activities. After the activities were designed each group presented their activities in the whole group. First Odia group presented the activity developed by the Odia group, then Science and at last Math group presented their activities. The groups were then asked to rate their activities refereing to ERAC format- Experience-were the students able to experience about the concept, how the reflection process took place, where they got a situation to apply and lastly how the consolidation was held. The group was facilitated by the resource persons from Ignus ERG.

Subjects	EXPERIENCE	REFLECTION	APPLICATION	CONSOLIDATION
Odia	√	X	X	√
Science	√	X	√	X
Math	√	X	√	X

### **Day 3: Capacity Building Workshop of Teachers**

The day three started with the recapitulation of the important take away from previous day. The materials developed by the subject expert group were distributed to the teachers of the pilot schools. The SRG members present in the subject group of Science, Math and Odia facilitate the session. They thoroughly discussed the activities developed by the group and also discussed the materials required for teachers to conduct the activity, procedure to be followed, sitting arrangement of the students, materials to be need for students inside the classroom while teaching learning process.

After lunch session was devoted for school level planning to conduct the Foundation camp for SSRP program. Participants were asked to form school wise groups and do a detail plan for their school. 10 small groups were formed and each group consist of one Math teacher, one Science teacher and one Odia teacher. It was finalised that SSRP foundation camp will be for 9 days and 6 hours. Each subject will be given 2 hours. They discussed and prepared a session plan for conduction of school level foundation camp of SSRP. One of the session plan is attached as an example. 10 SSRP school wise planning are annexed separately.

Subject/ Indicator	School Name: K C Vidyapitha , Mundamuhana, Jaanla								
	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
<b>Odia</b>	Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5	Indicator 6	Indicator 7	Indicator 8	Indicator 9
<b>Science</b>	Indicator 2	Indicator 3	Indicator 4	Indicator 5	Indicator 6	Indicator 7	Indicator 8	Indicator 9	Indicator 10
<b>Mathematics</b>	Indicator 3	Indicator 4	Indicator 5	Indicator 6	Indicator 7	Indicator 8	Indicator 9	Indicator 10	Indicator 11
2 hours each subject	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours	6 hours

The subject group teachers along with SRG developed the checklist for Science, Math and Odia to be used while monitoring the SSRP foundation Camp.

#### Science Checklist:

1. The teaching learning materials should be on the table of the students
2. Students must be participating in the activities
3. Students asking Science related questions to the teacher
4. Students are discussing in the groups
5. Students are writing about their observations
6. Students are observing, analysis and drawing pictures
7. Students are recording the data
8. The outcome of experiments or activities in written form should be deposited on the teachers table.

#### Mathematics Checklist:

1. Active participation of student
2. Use of TLM, models etc
3. Students asking Math related questions to the teacher

4. Students are solving Math related questions in the groups
5. Students are writing about their observations
6. Students are observing, analysis and drawing figures for better understanding
7. Students are recording the data
8. Different ways to solve a problems

**Odia (Language) Checklist:**

1. A lot of conversation happening among the students
2. Students are able to read
3. Students are able to write
4. Students are able to use dictionary
5. Students are able to punctuate properly
6. Students are able to draw analysis, picture reading, role out their feelings

The meeting came into end with word of thanks form the Deputy Director, OMSM-RMSA, Smt Bijaya Patra, followed by words of thanks by Mr. Prasanta Pradhan Team Leader, RMSA-TCA, Bhubaneswar.

**Annexures 1: Secondary School Readiness Program (SSRP)**

RMSA –TCA

**Teachers’ Training Program from 15 -17 February 2016**

**Training Design**

<b>Session</b>	<b>Day 1</b>	<b>Days 2</b>	<b>Day3</b>
Session 1	<ul style="list-style-type: none"> <li>• Registration – TCA – Samir</li> <li>• Welcome RMSA B. Patra -TCA Prasanta Pradhan RIE Prof. Sandhya Sahoo , B.Satpathy DEO &amp; introduction of participants</li> </ul>	Learning Indictor + Activity	Management of Learning : <ul style="list-style-type: none"> <li>• Planning</li> <li>• Evaluation</li> <li>• Organisation</li> </ul>

	<ul style="list-style-type: none"> <li>SSRP: What &amp; why?(TCA with support of OMSM &amp; IGNUS)</li> </ul>		
Session 2	Pedagogy : General ( ERAC) IGNUS, RMSA-TCA	Learning Indictor + Activity	Management of Learning : <ul style="list-style-type: none"> <li>Planning</li> <li>Evaluation</li> <li>Organisation</li> </ul>
Session 3	Pedagogy Subject Approach Odia – A.Pradhan, B.K .Panda Science – R.R.Mishra, K.Mohanty Mathematics : Dillip Tripathy , A.Baliarsingh Siba Prasad Pal / Pradeep Pradhan- Consolidation	Learning Indictor + Activity	Camp Plan ( Total for 54 hours , 18 hours * 3 subjects )
Session 4	Activity Plan Practice	Learning Indictor + Activity	Monitoring & Support
<b>Sitting arrangement of participants</b>	<b>For all the sessions in day 1 the whole group will sit together</b>	<b>For all the sessions in day 2 the group will sit subject-wise (The activity plan will be 18 hours for each subject)</b>	<b>For session 1 &amp;2 the group will sit school wise &amp; for session 3 &amp; 4 the group will sit subject -wise</b>

## Annexure 2: Secondary School Readiness Program (SSRP)

RMSA –TCA

Teachers' Training Program from 15 -17 February 2016

### Training Design

Session	Day 1	Days 2	Day3
Session 1	<ul style="list-style-type: none"> <li>Registration – TCA – Samir</li> <li>Welcome RMSA B. Patra -TCA Prasanta Pradhan RIE Prof. Sandhya Sahoo , B.Satpathy DEO &amp;</li> </ul>	Learning Indictor + Activity	Management of Learning : <ul style="list-style-type: none"> <li>Planning</li> <li>Evaluation</li> <li>Organisation</li> </ul>

	<p>introduction of participants</p> <ul style="list-style-type: none"> <li>• SSRP: What &amp; why?(TCA with support of OMSM &amp; IGNUM)</li> </ul>		
Session 2	Pedagogy : General ( ERAC) IGNUM, RMSA-TCA	Learning Indicator + Activity	<p>Management of Learning :</p> <ul style="list-style-type: none"> <li>• Planning</li> <li>• Evaluation</li> <li>• Organisation</li> </ul>
Session 3	<p>Pedagogy Subject Approach</p> <p>Odia – A.Pradhan, B.K .Panda</p> <p>Science – R.R.Mishra, K.Mohanty</p> <p>Mathematics : Dillip Tripathy , A.Baliarsingh</p> <p>Siba Prasad Pal / Pradeep Pradhan- Consolidation</p>	Learning Indicator + Activity	Camp Plan ( Total for 54 hours , 18 hours * 3 subjects )
Session 4	Activity Plan Practice	Learning Indicator + Activity	Monitoring & Support
<b>Sitting arrangement of participants</b>	<b>For all the sessions in day 1 the whole group will sit together</b>	<b>For all the sessions in day 2 the group will sit subject-wise</b> (The activity plan will be 18 hours for each subject)	<b>For session 1 &amp;2 the group will sit school wise &amp; for session 3 &amp; 4 the group will sit subject -wise</b>