

Orissa State Disaster Management Authority



OSDMA

ISO 9001:2000

National Cyclone Risk Mitigation Project

ORISSA

Summary of the Process, Methodology and Results of
ESMF Screening

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1. Project Background

Orissa has a coast line of 480 kms which is very vulnerable to disasters like cyclones, floods and storm surge. With the objective of mitigating the disaster, National Cyclone Risk Mitigation Project (NCRMP) will be implemented within 10 km from the sea coast in six coastal districts under Government of India and World Bank assistance. The Investment proposal for the State of Orissa under NCRMP includes three major sub-components namely

- construction of 149 cyclone shelters including 19 in Fish Landing Centres and six shelter cum godowns
- Connectivity to proposed and existing cyclone shelters total 191 approach roads
- Raising and strengthening of saline embankments- 156.98 km in 23 packages.

INVITATION FOR FEEDBACK

Environmental and Social Screening Results of the project sites proposed in the Year-1 for construction of cyclone shelters and connecting roads under National Cyclone Risk Mitigation Project (NCRMP), Orissa to be implemented in coastal districts under the Government of India and World Bank assistance, have been uploaded in the website.

OSDMA invites feedback from the stakeholders and general public relating to environmental and social issues in the proposed sites, within one month of uploading i.e. on or before 17th November, 2009. The feedbacks may be sent in the e-mail ID- ncrmp@osdma.org / dgm1@osdma.org.

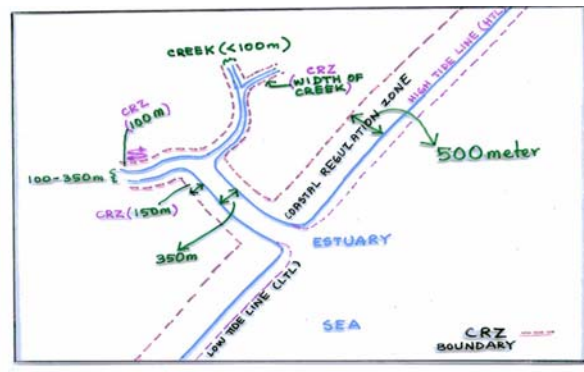
Steps taken for environmental screening of the projects.

Since the projects will be implemented close to the seacoast which is environmentally sensitive and densely populated areas, Environmental and social screening has been done for all the sub-projects. The steps taken for environmental screening of the projects are as follows.

- Coastal Regulatory Zone (CRZ) mapping of sites based on the ORSAC maps
- Collection of GPS readings of the sites
- Positioning of sites in GIS data layers
- Creation of 1 km buffer line of site
- Site checking for environmentally sensitive areas based on the forest and other thematic layers in GIS environment
- Interpretation of sensitive areas with respect to the sites from Survey of India maps and satellite images
- Field visit of sites for confirmation
- Determine the requirement of an EIA study & its scope and other applicable rules /regulations and clearances

CRZ mapping Process

Coastal stretches of bays, estuaries. Backwaters, seas, creeks, etc., which are influenced by tidal action upto 500 m from high tide line (HTL) and the land between the low tide line (LTL) and the HTL have been declared as Coastal Regulatory Zone (CRZ) by the Government of India in 1991. For regulating developmental activities, the coastal stretches are classified into;



CRZ-I- Ecologically sensitive and important areas and areas between HTL and LTL

CRZ-II- Developed areas, close to the shore, mainly urban and built up areas

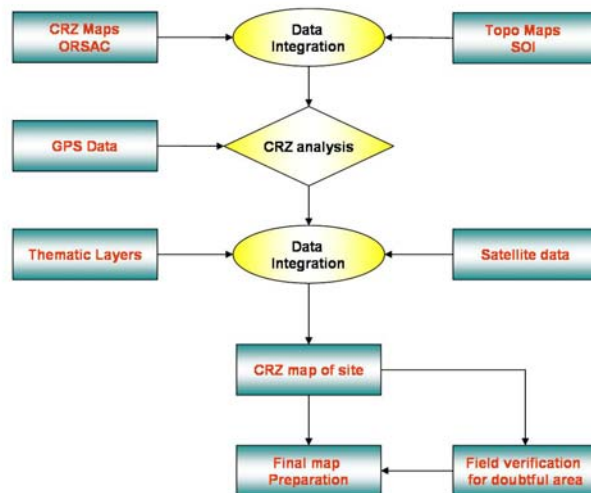
CRZ-III- Undisturbed areas and those areas which do not belong to either Category I or II

CRZ-IV- Coastal stretches in Andaman& Nicobar and small islands

CRZ maps for the entire State of Orissa have been procured from Orissa Remote Sensing Application Centre (ORSAC). Then the corresponding topographical maps with respect to the CRZ maps have been procured from Survey of India, Bhubaneswar. The latitude /longitude information of each sites were collected from the field with handheld Garmin make Global Positioning System (GPS). The GPS data have been plotted in the CRZ maps and the site sensitivity were identified. The doubtful areas were further verified in the field and modified accordingly.

The result of CRZ mapping is as below.

1. All the packages of saline embankments are coming under CRZ
2. 100 out of 130 proposed cyclone shelters are outside the CRZ. All 19 sites for shelters for fishermen in Fish Landing Centres are within CRZ. All six locations of godowns are outside the CRZ
3. All connecting roads to the proposed CRZ free 100 cyclone shelters are outside the CRZ. All the proposed connecting roads to the existing cyclone shelters are free from CRZ.



On the basis of CRZ mapping, all the sub-projects proposed in the Year-1 are outside the CRZ.

CRZ status of Shelters and connecting roads

Sl No	District	Proposed Shelters	Shelters in CRZ	Shelters in NoCRZ
1	Balasore	47	07	40
2	Bhadrak	15	01	14
3	Kendrapada	08	02	06
4	Jagatsingpur	06	02	04
5	Puri	43	13	30
6	Ganjam	11	05	06
	Total	130	30	100

CRZ status of Saline Embankments

Sl No	District	No. of Embankments	Total length in km	Embankments in CRZ
1	Balasore	01	1.2	01
2	Bhadrak	02	30.5	02
3	Kendrapada	04	24.95	04
4	Jagatsingpur	02	18.0	02
5	Puri	12	72.14	12
6	Ganjam	02	10.19	02
	Total	23	156.98	23

The sub-projects, which are outside the CRZ have been proposed in the Year-1 of the NCRMP. After CRZ verification, the CRZ free sites were again screened as per the ESMF (Environmental and Social Management Framework) guidelines of the project and Environmental and social screening formats were filled up in the field with community involvement.

Environmental and social screening format:

Thereafter a team of officers comprising Sri B.N. Mishra, GIS Expert and Environment Specialist of OSDMA, Sri B Baral, Social Consultant of OSDMA, Sri K.C. Bisoi, Shelter Coordinator, Er S.K. Chatterjee, Engineering Consultant, One Engineer from OSDMA, Chief Engineer or his representative from RD Department, Local Tahasildar, Local Revenue Inspector, Headmaster of the concerned school, local Sarapanch and local NGO representative visited the Year-1 proposed sites for filling up the environmental and social screening format.

Steps adopted for Social Screening:

The team on arrival at the site conduct a transect walk around the village to ascertain the location of sensitive sites or sensitive issues. Villagers join the team during such transect walk. After the transect walk the team sits in the local school premises for detail discussion. The meeting called Gram Sabha is held in the school as per prior notice and attended by villagers, Local Self help Group members, Anganwadi workers and others. The screening is done in presence of the villagers and the proceeding of the Gram Sabha is recorded.

The steps taken for social screening of the projects.

- ❖ Assessing the multi-utility of the site and suitability of place
- ❖ Screening of sites as per the WB-NDMA guidelines
- ❖ Social mobilization through gram sabha

- ❖ Determine the requirement of an SIA study and Rehabilitation Assessment Plan
- ❖ Interaction with the major stakeholders
- ❖ Taking into account the community disaster sub-culture

Environmental Impact Assessment (EIA) & Social Impact Assessment (SIA) :

EIA and SIA study was done for the proposed 100 (CRZ free) cyclone shelter sites and the corresponding connecting roads in the field. Out of these, social problems were identified in respect of 8 sites. Hence these 8 sites have been left for further study. The 92 clear sites and their corresponding Screening formats have been uploaded in this website for public verification and feedback from the Public and the stakeholders.

OSDMA invites feedback from the interested persons, stakeholders and the general public within one month of uploading i.e. on or before 17th November, 2009. The feedbacks may be sent in the e-mail ID- ncrmp@osdma.org / dgm1@osdma.org.

LIST OF ENV. & SOCIAL SCREENING SITES

Sl. No.	Name of the District	Name of the Block	Name of the village	EMP Required	SMP Required
1	BALASORE	BAHANAGA	BISHNUPUR	No	No
2	BALASORE	BAHANAGA	GANDHIANA	No	No
3	BALASORE	BAHANAGA	KOCHIAKOILI	No	No
4	BALASORE	BAHANAGA	KURUDA	No	No
5	BALASORE	BAHANAGA	ODASALA	No	No
6	BALASORE	BAHANAGA	PAIKASTA	No	No
7	BALASORE	BAHANAGA	SAHASPURA	No	No
8	BALASORE	BAHANAGA	BAJANA	No	No
9	BALASORE	BAHANAGA	NUAPUR	No	No
10	BALASORE	BALIAPAL	ALADIHA	No	No
11	BALASORE	BALIAPAL	BISHNUPUR	No	No
12	BALASORE	BALIAPAL	DAGARA	No	No
13	BALASORE	BALIAPAL	BISIKADEIPUR	No	No
14	BALASORE	BALIAPAL	DEULA	No	No
15	BALASORE	BALIAPAL	GOBINDAPUR	No	No
16	BALASORE	BALIAPAL	PAKMUNDI	No	No
17	BALASORE	BALIAPAL	SURADIHA	No	No
18	BALASORE	BALIAPAL	IKARAPAL	No	No
19	BALASORE	BALIAPAL	KUNDALI	No	No
20	BALASORE	BASTA	GOTADIHA	No	No
21	BALASORE	BASTA	KAINAGIRI	No	No
22	BALASORE	BHOGARAI	JALAPAHI	No	No
23	BALASORE	REMUNA	MAHAMADABAD	No	No
24	BALASORE	REMUNA	MAHARAJPUR	No	No
25	BALASORE	REMUNA	MANDOGAN	No	No
26	BALASORE	SADAR	BADAKIA	No	No
27	BALASORE	SADAR	BINJHA	No	No
28	BALASORE	SADAR	GOPINATHPUR	No	No
29	BALASORE	SADAR	HIDIGAN	No	No
30	BALASORE	SADAR	JAYDEBKASBA	No	No
31	BALASORE	SADAR	PANCHUPADA	No	No
32	BALASORE	SADAR	PARAKHI	No	No
33	BALASORE	SADAR	ALUMEDA	No	No
34	BALASORE	SADAR	SARTHA	No	No
35	BALASORE	SADAR	SARTHABINDHA	No	No
36	BALASORE	SADAR	KOILISAHI	No	No
37	BALASORE	SORO	PAKHAR	No	No
38	BALASORE	SORO	TENTEI	No	No
39	BHADRAK	BASUDEVPUR	ARTUNG	No	No
40	BHADRAK	BASUDEVPUR	BALARAMPUR	No	No
41	BHADRAK	BASUDEVPUR	KHEDUALPUR	No	No
42	BHADRAK	BASUDEVPUR	TILADA	No	No
43	BHADRAK	CHANDBALI	ANKAPADA	No	No
44	BHADRAK	CHANDBALI	BIRIADIA	No	No
45	BHADRAK	CHANDBALI	SUNARIPOKHARI	No	No
46	BHADRAK	CHANDBALI	BALIARPUR	No	No

Sl. No.	Name of the District	Name of the Block	Name of the village	EMP Required	SMP Required
47	BHADRAK	CHANDBALI	BARAKOLA	No	No
48	BHADRAK	CHANDBALI	JANTUALI	No	No
49	BHADRAK	CHANDBALI	KADUANASI	No	No
50	BHADRAK	CHANDBALI	KHADALPOKHARI	No	No
51	BHADRAK	CHANDBALI	NACHHIPUR	No	No
52	BHADRAK	CHANDBALI	UTTARASAH	No	No
53	GANJAM	GANJAM	LUNGURI	No	No
54	GANJAM	GANJAM	PODAGADAIJHATIPADAR	No	No
55	GANJAM	GANJAM	RAJAPUR	No	No
56	GANJAM	GANJAM	BORIGAN	No	No
57	GANJAM	GANJAM	SATULI	No	No
58	JAGATSINGHPUR	BALIKUDA	SANTARAPUR	No	No
59	JAGATSINGHPUR	BALIKUDA	KUSUPUR	No	No
60	JAGATSINGHPUR	ERSAMA	KANKAN	No	No
61	JAGATSINGHPUR	KUNJANG	PANAPALI	No	No
62	KENDRAPADA	MAHAKALAPADA	BAHAKUD AND PITAPATA	No	No
63	KENDRAPADA	PATTAMUNDAAI	KAJALA BANDHA	No	No
64	KENDRAPADA	PATTAMUNDAAI	SATKURIA	No	No
65	KENDRAPADA	PATTAMUNDAAI	BALIKANA	No	No
66	KENDRAPADA	RAJNAGAR	POKHARIA	No	No
67	PURI	ASTARANG	KENDRAPATI	No	No
68	PURI	ASTARANG	SAHAN	No	No
69	PURI	ASTARANG	BANTILO	No	No
70	PURI	ASTARANG	MADHUPUR	No	No
71	PURI	BRAHMAGIRI	KAHALAPADA	No	No
72	PURI	BRAHMAGIRI	PALANKA	No	No
73	PURI	BRAHMAGIRI	BARUDI	No	No
74	PURI	BRAHMAGIRI	CHAMPAMANIK	No	No
75	PURI	GOP	BADATARA	No	No
76	PURI	GOP	BANGAR	No	No
77	PURI	GOP	KANTHIJHADHI (KANTHIGHARI)	No	No
78	PURI	GOP	KUNDISA	No	No
79	PURI	GOP	GAUDASAH (BHUAN)	No	No
80	PURI	GOP	SAREDA	No	No
81	PURI	KAKATPUR	ADHUAL	No	No
82	PURI	KAKATPUR	DHANITRI	No	No
83	PURI	KAKATPUR	RUNKEI	No	No
84	PURI	KAKATPUR	SUKAPOKHARI (JALESWARPADA)	No	No
85	PURI	KRUSHNAPRASAD	BAJARAKOTE	No	No
86	PURI	KRUSHNAPRASAD	BUDHIBAR	No	No
87	PURI	KRUSHNAPRASAD	GOMUNDIA	No	No
88	PURI	KRUSHNAPRASAD	JENAPUR	No	No
89	PURI	PURI SADAR	KANTASIL	No	No
90	PURI	PURI SADAR	JAMARSUAN	No	No
91	PURI	PURI SADAR	RENDUA	No	No

2. Summary of suggestions/feedback obtained in social consultation

On examination of the social consultation processes and the feedbacks received from various stakeholders consulted, the following major points were commonly raised.

- 1. The community feels that had there been safe shelter space available in their locality during the super cyclone 1999, loss of life and property would have been minimized.**
- 2. The community urgently needs the cyclone shelter building in the village.**
- 3. The building should be located in the premises of the school, so that those can be utilized for school and other community purposes during normal time.**
- 4. The community members voluntarily offer to take care/ maintain and manage the building after construction.**
- 5. They don't have any objection for the construction of the building.**
- 6. In some cases, the villages offered to donate land for construction of the building.**
- 7. Community members demand to provide drinking water facility in the shelter through tube wells duly providing storage facility of water.**
- 8. The shelter building should be given all weather connectivity. Some villagers proposed to connect the served villages with pucca and concrete roads so that their evacuation can be facilitated in all adversities.**

Exhibit A: Practical example of Environment screening using desktop approach

The actual process of environmental screening and social consultation has been presented systematically with the Power Point Presentation attached herewith.

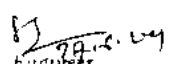
[View presentation](#)

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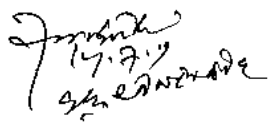
ଏତଦ୍ୱାରା ମୁକ୍ତପୁର ଗ୍ରାମ ନୂଆଗଡ଼ ଗୋପ ପଞ୍ଚାୟତ ର ଗ୍ରାମବାସୀମାନେ ଅଧ୍ୟେ ତା:-
୨୩-୦୨-୦୮ ସମୟ ୪ ଘଟିକା ସ୍ଥାନ ମୁକ୍ତପୁର ଠାରେ ଏକ ବୈଠକରେ
ଏକତ୍ରିତ ହୋଇ ନିମ୍ନଲିଖିତ ନିଷ୍ପତ୍ତି ଗ୍ରହଣ କଲୁ।

- ୧- ବାତ୍ୟା ଆଶ୍ରୟ ସୁଳା ପାଇଁ ଆମ ଗ୍ରାମର ନିରୁପିତ ସ୍ଥାନରେ ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ ହେଲେ ଆମଗ୍ରାମ
ଓ ଆଖପାଖ ଗ୍ରାମର ଲୋକମାନେ ବାତ୍ୟା/ବନ୍ୟା ସମୟରେ ଆଶ୍ରୟ ନେଇପାରିବେ।
- ୨- ଏହି ଆଶ୍ରୟସୁଳା ନିର୍ମାଣରେ ଆମ ଗ୍ରାମ ଓ ଆଖପାଖ ଗ୍ରାମର ପରିବେଶ, ଐତିହାସିକ ସୁଳା,
ଜାତୀୟ ଉଦ୍ୟାନ ଏବଂ ସଂରକ୍ଷିତ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ସ୍ଥାନ ଉପରେ କୌଣସି ପ୍ରତିକୂଳ ପ୍ରଭାବ ପକାଇବ
ନାହିଁ।
- ୩- ବାତ୍ୟା ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ ଓ ଆଶ୍ରୟସୁଳାକୁ ସଂଯୋଗ କରୁଥିବା ରାସ୍ତା ସୁରକ୍ଷାକରଣ କରାଗଲେ,
ଏହି ଅଞ୍ଚଳର କୌଣସି ପରିବାର ବାସଚ୍ୟୁତ ହେବେନାହିଁ କିମ୍ବା ତାଙ୍କର ଜୀବିକା ଉପରେ କୌଣସି
ପ୍ରତିକୂଳ ପ୍ରଭାବ ପକାଇବନାହିଁ।
- ୪- ଏହି ଉପ ପ୍ରକଳ୍ପ ନିର୍ମାଣରେ କୌଣସି ପରିବାରର ଜୀ ଅଧିଗ୍ରହଣ କରିବା ଦରକାର ପଡ଼ିବନାହିଁ।
- ୫- ଉପପ୍ରକଳ୍ପ ସ୍ଥାନ ଅନୁପ୍ରବେଶ ମୁକ୍ତ ଅଟେ।
- ୬- ଏହି ବାତ୍ୟା ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ, ପରିଚାଳନା ଓ ରକ୍ଷଣାବେକ୍ଷଣରେ ଗ୍ରାମବାସୀମାନେ ସମସ୍ତ
ସହଯୋଗ ଯୋଗାଇଦେବୁ।

B. Baral
Social Expert
OSDMA


Assistant Engineer
Rural Extension Section
ASTARANGA


Officer in Charge
Orissa State Disaster Mitigation Authority


17.7.17
Assistant Engineer

Assistant Engineer
R W Sub-Div, Kakatpur

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Debendra Parida age-35 s/o Purandar - କନ୍ୟା ବ୍ରହ୍ମାଣ୍ୟ
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 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 33 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 25 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 55 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 55
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 50
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 35
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 40 - ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 50 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 35
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 36 - ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 50 - ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 30
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 30 - ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 40
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 35 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 50 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 45 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 30 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 30 → ସମ୍ପର୍କୀ କନ୍ୟା
 ସମ୍ପର୍କୀ ସମ୍ପର୍କୀ → 60

Megumi Chakravarty → 20
 Pasanta Kumar Behara → 41
 Jitendra Behara → 38
 Bisoy Behara → 35
 Hemanta Behara → 50
 Girish Chandra Sengupta → 38
 Suresh Chandra Mohapatra → 29
 Suresh Kumar Behara → 40
 Suresh Kumar Behara → 60
 Suresh Kumar Behara → 27
 Suresh Kumar Behara → 19
 Tejabhar Behara → 21
 Tapas Behara → 20
 Bipin Kumar Behara → 21
 Dipak Behara → 25
 BAPi Behara → 27

ପ୍ରମୋଦ କେନ୍ଦ୍ରୀୟ	ବୟସ 35	ପାପା
ଗମନା ସିଦ୍ଧି ଚକ୍ରବର୍ତ୍ତୀ	କାନ୍ଧ	ସାବୁ ଚକ୍ରବର୍ତ୍ତୀ
ଶ୍ରୀମତୀ ସାମୁଏଲ	ପାପ	ହରିଚନ୍ଦ୍ରଚରଣ
Ramesh Behara	45P Ber Bahera	ହରିହର ଚକ୍ରବର୍ତ୍ତୀ
Behera	ପଦା. ଶ୍ରୀ. ଚକ୍ରବର୍ତ୍ତୀ	
	ପଦା. ଶ୍ରୀ. ଚକ୍ରବର୍ତ୍ତୀ	
ଶ୍ରୀମତୀ ଚକ୍ରବର୍ତ୍ତୀ		

National Cyclone Risk Mitigation Project
Environment and Social Screening Form

Part A: General Information

1. Name of the State	ORISSA.
2. Type of proposed sub-project activity (tick the applicable option)	
▪ Cyclone Shelter	
▪ Cyclone Shelter with Access Road/Culverts	✓
▪ Plantation of Mangroves	
▪ Roads/Bridges/Culverts	
▪ Shelter Belt Plantation	
▪ Saline Embankment	
▪ Coastal canal	
▪ Any Other (Please Specify)	
3. Location of the sub-project	
▪ Village	MADHUPUR.
▪ Tahuka	ASTARANG
▪ District	PURI
4. Size of the sub-project (approx. area in sq. m/hac or length in m/km, as relevant)	30 x 30 mts.
5. Land Requirement (in hac./sq. mt.)	
▪ Total Requirement	900 sqm.
▪ Private Land	
▪ Govt. Land	✓
▪ Forest Land	

6. Implementing Agency Details (sub-project level)	
• Name of the Department/Agency	R.D. Department
• Name of the designated contact person	En. A.U.N. Suhwohy
• Designation	Executive Assistant Asst. Engineer, Road & Highways Div.
• Contact Number	0436255348 0436255348
• E-mail Id	ee-nimatama@yahoocor.com
7. Details about the Screening Exercise	
• Date	17-7-09
• Name of the Person	TE. Antonny
• Contact Number	0436255369
• E-mail Id	-

Part B (1): Environment Screening

Question	Yes	No	Details
1. Is the sub-project located in whole or part within the Coastal Regulation Zone?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Estara Zone If yes, specify the zone
2. Is the sub-project located in whole or part in/near any of the following environmentally sensitive areas? ¹			
a. Biosphere Reserve	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, mention name and distance
b. National Park	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, mention name and distance
c. Wildlife/Bird Sanctuary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, mention name and distance

¹ The SDMA-⁽²⁾ should take adequate steps to ensure that there are no adverse impacts on the environment within 1 km radius of the listed protected areas during sub-project implementation. The Environmental Officers at the SDMA/UPM/NDMA need to ensure that the required avoidance, minimization and mitigation measures are taken care of during site selection, DFR preparation and implementation/construction stages of a sub-project. This will help facilitate project supervision and monitoring during the implementation stage as well.

Question	Yes	No	Details
d. Tiger Reserve/Elephant Reserve		✓	If yes, mention name and distance.
e. Wetland		✓	If yes, mention name and distance.
f. Important Bird Areas (IBAs)		✓	If yes, mention name and distance.
g. Coastal area with corals		✓	If yes, mention name and distance.
h. Mangrove area		✓	If yes, mention name and distance.
i. Estuary with mangroves		✓	If yes, mention name and distance.
j. Natural Lakes		✓	If yes, mention name and distance.
k. Swamps/Mudflats		✓	If yes, mention name and distance.
l. Habitat of migratory birds (outside protected areas)		✓	If yes, mention name and distance.
m. Migratory Route of Wild Animals/Birds		✓	If yes, mention name and distance.
n. Area with threatened/rare/endangered fauna (outside protected areas)		✓	If yes, mention name and distance.
o. Area with threatened/rare/ endangered flora (outside protected areas)		✓	If yes, mention name and distance.
p. Reserved/Protected Forest		✓	If yes, mention name and distance.
q. Zoological Park /Botanical Garden		✓	If yes, mention name and distance.
3. Is the sub-project located within 500 meters from rivers, streams, estuaries or deltaic mouths?		✓	If yes, mention name/s and distance/s.

Question	Yes	No	Details
4. Is the sub-project located in whole or part near any of the following sensitive features?²			
a. World Heritage Sites —prohibited		✓	If yes, mention name and distance.
b. Archaeological monuments/sites (under ASI's central/state list) - prohibited		✓	If yes, mention name and distance.
c. Historic Places (not listed under ASI – central or state list but regionally/locally important)		✓	If yes, mention name and distance.
d. Reservoirs/Dams		✓	If yes, mention name and distance.
e. Religious Places (Regionally or Locally Important)		✓	If yes, mention name and distance.
f. Public Water Supply Areas from Rivers/Surface Water Bodies/ Ground Water Sources		✓	If yes, mention name and distance.

Part B (2) - Result/Outcome of Environmental Screening Exercise		
1.	No Environment Impact Assessment Required	} NO
2.	Environment Impact Assessment Required	
3.	CRZ clearance required	
4.	Environmental Clearance Required	
5.	Forest Clearance Required	

² The SDMA should take adequate steps to ensure that there are no adverse impacts within 1 km radius of the listed sensitive features/areas during sub-project implementation. The Environmental Officers at the SDMA/NDMA-PUC/PML need to ensure that the required avoidance, minimization and mitigation measures are taken care of during site selection, DPR preparation and implementation/construction stages of a sub-project. This will help facilitate project supervision and monitoring during the implementation stage as well.

³ In case of archaeological sites/monuments, the prohibited area is 100 mts and the controlled area is 200 mts.

Note: Please refer to the relevant chapter of ESMF for information of regulatory framework and clearance requirements while Annexure No. -- provides guidance on conducting Environment Impact Assessment.

Part C (1) : Social Screening

1. Does the sub-project activity require acquisition of private land?			
Yes		No	✓
Give the following details:	Private Land (sq mts/hac.)		
	Govt. Land (sq mts/hac.)		900.00 sq
	Forest Land (sq mts/hac.)		
2. Does the proposed sub-project activity result in demolition/removal of existing structures?			
Yes		No	✓
If so, give the following details:			
• Number of public structures/buildings			
• Number of common property resources (such as religious/cultural/ drinking water/wells/etc)			
• Number of private structures (located on private or public land)			
3. Does the proposed Project activity result in loss of crops/trees?			
Yes		No	✓
4. Does the proposed Project activity result in loss of direct livelihood/ employment?			
Yes		No	✓
5. Does the proposed activity result in loss of mangrove ecosystem/community forest on which near by residents/local population are dependent for fuel wood/grazing etc.?			
Yes		No	✓
If yes, give the details of the extent of area to be lost (in acres/hac.).			
6. Does the proposed Project activity affect schedule tribe/caste communities?			
Yes		No	✓

Part C (2) - Result/Outcome of Social Screening Exercise		
	Output	Outcome
1.	Answer to all the question is 'No' and only forest land is being acquired	<input checked="" type="checkbox"/> No SIA/RAP required
2.	Answer to any question is 'Yes' and the sub-project does not Tra lai em niem vui khi duoc gan ben em, tra lai em loi yeu thuong em dem, tra lai em niem tin trong con nguoi ta dap vay. Gio day chi la nhung ky niem buon...	<input type="checkbox"/> Abbreviated RAP is required No
3.	Answer to any question is 'Yes' and the sub-project affects more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	<input type="checkbox"/> SIA/RAP Required No

*1. 17-7-09
JE, Astanaga*

*17/7/09
Assistant Engineer
R.W. Sub-Div. Kakatpur*

*B. Baral
Social Expert
OSDMA*

*J. J. J.
Executive Engineer
R.W. Division, Nimapara*

*Shelter Coordinator
Orissa State Disaster Mitigation Authority*

*GIS Expert & Env. Specialist (NCRWP)
Orissa State Disaster Management Authority
Rajiv Bhawan, Bhubaneswar, Orissa*

Screening result of Anladiha under Baliapal Block of Balasore District

ଗ୍ରାମ ସଭା ବିବରଣୀ

ଏତଦ୍ୱାରା ଆନାଡ଼ିହା ଗ୍ରାମ ଆନାଡ଼ିହା ଗ୍ରାମ ପଞ୍ଚାୟତ ର ଗ୍ରାମବାସୀମାନେ ଅନ୍ୟ ତା:-

୨୨.୦୨.୦୮ ସମୟ ୧୧.୩୫ ଧିନ ସ୍ଥାନ ପ୍ରାଥମିକ ବିଦ୍ୟାଳୟ J.P.V. ସ୍କୁଲ ଠାରେ ଏକ ବୈଠକରେ

ଏକତ୍ରିତ ହୋଇ ନିମ୍ନଲିଖିତ ନିଷ୍ପତ୍ତି ଗ୍ରହଣ କଲୁ।

- ୧- ବାଚ୍ୟା ଆଶ୍ରୟ ସୁଳା ପାଇଁ ଆମ ଗ୍ରାମର ନିରୁପିତ ସ୍ଥାନରେ ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ ହେଲେ ଆମଗ୍ରାମ ଓ ଆଖପାଖ ଗ୍ରାମର ଲୋକମାନେ ବାଚ୍ୟା/ବନ୍ୟା ସମୟରେ ଆଶ୍ରୟ ନେଇପାରିବେ ।
- ୨- ଏହି ଆଶ୍ରୟସୁଳା ନିର୍ମାଣରେ ଆମ ଗ୍ରାମ ଓ ଆଖପାଖ ଗ୍ରାମର ପରିବେଶ, ଐତିହାସିକ ସୁଳା, ଜାତୀୟ ଉଦ୍ୟାନ ଏବଂ ସଂରକ୍ଷିତ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ସ୍ଥାନ ଉପରେ କୌଣସି ପ୍ରତିକୂଳ ପ୍ରଭାବ ପକାଇବ ନାହିଁ ।
- ୩- ବାଚ୍ୟା ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ ଓ ଆଶ୍ରୟସୁଳାକୁ ସଂଯୋଗ କରୁଥିବା ରାସ୍ତା ସୁଦୃଢ଼ୀକରଣ କରାଗଲେ, ଏହି ଅଞ୍ଚଳର କୌଣସି ପରିବାର ବାସବ୍ୟୁତ ହେବେନାହିଁ କିମ୍ବା ତାଙ୍କର ଜାତିକା ଉପରେ କୌଣସି ପ୍ରତିକୂଳ ପ୍ରଭାବ ପକାଇବନାହିଁ ।
- ୪- ଏହି ଉପ ପ୍ରକଳ୍ପ ନିର୍ମାଣରେ କୌଣସି ପରିବାରର ଜମି ଅଧିଗ୍ରହଣ କରିବା ଦରକାର ପଡ଼ିବନାହିଁ ।
- ୫- ଉପପ୍ରକଳ୍ପ ସ୍ଥାନ ଅନୁପ୍ରଦେଶ ମୁକ୍ତ ଅଟେ ।
- ୬- ଏହି ବାଚ୍ୟା ଆଶ୍ରୟସୁଳା ନିର୍ମାଣ, ପରିଚାଳନା ଓ ରକ୍ଷଣାବେକ୍ଷଣରେ ଗ୍ରାମବାସୀମାନେ ସମସ୍ତ ସହଯୋଗ ଯୋଗାଇଦେବୁ ।

[Handwritten signature and stamp]

[Handwritten signature]
B. Barui
 Social Expert
 OSDMA

[Handwritten signature]
 26.06.09
 Assistant Engineer
 Road Works Sub-Division
 Balasore

[Handwritten signature]
C. S.
 Executive Engineer
 R. W. Divn., Jaleswar.

ପଞ୍ଜୀକୃତ
[Handwritten signature]
Laxmi Shari Kuyari
 Sarpanch, Aditi G.P.

Sl.No	Name	Age	Husband/Father's Name
1.	ସରୋଜ କୁମାରୀ କୁଲହାଣୀ	୪୪	ପଦ୍ମନାଭ କୁମାର କୁଲହାଣୀ
2.	Charitanga Kulkarni	55	Radhakshamy Kulkarni
3.	ଅନିଲ କୁମାରୀ	୨୪	ନରସିଂହ କୁଲହାଣୀ
4.	Mehin Kulkarni	୩୬	Efendro Biswas
5.	Sumanwar Kum	54	Samuday Kulkarni
6.	ନିରଂଜନ କୁଲହାଣୀ	56	ନରସିଂହ କୁଲହାଣୀ
7.	Indrakishan Kulkarni	57	Bhagabata Kulkarni
8.	Saroj Ku. Kulkarni	18	Ratnakar Kulkarni
9.	ଶରଣୀ କୁମାରୀ	60	ନୀଳକଣ୍ଠ କୁଲହାଣୀ
10.	Saroj Ku. Parba.	19	manjunay Parba.
11.	ନିରଂଜନ କୁଲହାଣୀ	32	ନରସିଂହ କୁଲହାଣୀ
12.	Benudhar Kulkarni	33	Gransadhar Kulkarni
13.	ନିରଂଜନ କୁଲହାଣୀ	୩୦	ନରସିଂହ କୁଲହାଣୀ
14.	ଅନିଲ କୁମାରୀ	୪୪	ନରସିଂହ କୁଲହାଣୀ
15.	Poojy Kumr Pat	38	Rajkumathi Pat
16.	ସରୋଜ କୁମାରୀ	୧୮	ନରସିଂହ କୁଲହାଣୀ
17.	ସରୋଜ କୁମାରୀ	୧୮	ନରସିଂହ କୁଲହାଣୀ
18.	Bidyanthu Kulkarni	22	Banshidhar Kulkarni
19.	Manmath Ke. Behere	62	Maheswar Behere.
20.	ନିରଂଜନ କୁଲହାଣୀ	55	ନରସିଂହ କୁଲହାଣୀ
21.	Deba datta Behere.	୫୦	Kimaram Behere
22.	Shibashan Kar Das.	25	ନରସିଂହ କୁଲହାଣୀ
23.	ନିରଂଜନ କୁଲହାଣୀ	28	ନରସିଂହ କୁଲହାଣୀ
24.	Natabar Kulkarni	27	ନରସିଂହ କୁଲହାଣୀ

Sl.No	Name	Age	Husband/Father's Name
1.	ଶ୍ରୀ ମନ୍ମଥେନ୍ଦ୍ର ବେହେରା	62	ପ୍ରମୋଦ ବେହେରା
2.	ମନ୍ମଥ କୁମାର ବେହେରା	88	କାର୍ତ୍ତିକ ଚନ୍ଦ୍ର ବେହେରା
3.	ଶ୍ରୀ ରଞ୍ଜନ ବେହେରା	58	ସୁକୁମାର ନାଥ ବେହେରା
4.	Komalakanta Behera.	88	Karttick ch. Behera.
5.	Smritidhar Kgr	88	Ramachandra Kgr
6.	Debabrata Samantary	30	Harekrushan Samantary
7.	Laxmidhar Behera	30	Chakradhar Behera
8.	ଶ୍ରୀ ସମ୍ୟକ୍ତ ସମ୍ପତ୍ତି	88	ବଳରାମ ସମ୍ପତ୍ତି
9.	Jagabandhu Behera	77	Banshidhar Behera
10.	Komal Lechan Behera	87	Banshidhar Behera
11.	Ratna Kari Behera	76	ସତ୍ୟଜିତ ବେହେରା
12.	ପ୍ରମୋଦ ବେହେରା	89	ଭ୍ରମର ବେହେରା
13.	ପ୍ରମୋଦ ବେହେରା	90	ପ୍ରମୋଦ ବେହେରା
14.	Prakrad Behera	30	ସତ୍ୟଜିତ ବେହେରା
15.	Amar Ku. Kulkarni	26	Debendra Natha Kulkarni
16.	Debabrata Samantary	84	Banshidhar Behera
17.	Prashanta Kulkarni	19	Sanjay Kulkarni
18.			
19.			
20.			
21.			
22.			
23.			
24.			

**National Cyclone Risk Mitigation Project
Environment and Social Screening Form**

Part A: General Information

1. Name of the State	Orissa
2. Type of proposed sub-project activity (tick the applicable option)	
• Cyclone Shelter	<input checked="" type="checkbox"/>
• Cyclone Shelter with Access Road/Culverts	<input type="checkbox"/>
• Provision of Mangroves	<input type="checkbox"/>
• Roads/Bridges/Culverts	<input type="checkbox"/>
• Shelter Belt Plantation	<input type="checkbox"/>
• Saline Embankment	<input type="checkbox"/>
• Coastal Guard	<input type="checkbox"/>
• Any Other (Please Specify)	
3. Location of the sub-project	
• Village	Aunla diba
• Taluka	Baliapal
• District	Balasore
4. Size of the sub-project (approx. area in sq. m/hec or length in m/km, as relevant)	278.7 m ² (3000 sqft)
5. Land Requirement (in hac./sq. mt.)	
• Total Requirement	0.040 Acre
• Government Land	NIT.
• Private Land	0.66 Acre.
• Forest Land	NIT.

6. Implementing Agency Details (sub-project level)	
• Name of the Department/Agency	Rural Works Dept.
• Name of the designated contact person	Er. Inara Ranjan Behuria.
• Designation	Executive Engineer, R.W. Divn, Jaleswar
• Contact Number	06781-237908
• E-mail Id	eeran_jaleswar@yahoo.com
7. Details about the Screening Exercise	
• Date	Dt. 06.06.2009
• Name of the Person	Jusar Kanti Behara, J.E. R.W. Section-1, Baliaipal
• Contact Number	9438289810
• E-mail Id	jekaliapal@yahoo.com

Part B (1): Environment Screening

Question	Yes	No	Details
1. Is the sub-project located in whole or part within the Coastal Regulation Zone?		<input checked="" type="checkbox"/>	If yes, specify the zone.
2. Is the sub-project located in whole or part in/near any of the following environmentally sensitive areas? ¹			
a. Biosphere Reserve		<input checked="" type="checkbox"/>	If yes, mention name and distance.
b. National Park		<input checked="" type="checkbox"/>	If yes, mention name and distance.
c. Wildlife/Bird Sanctuary		<input checked="" type="checkbox"/>	If yes, mention name and distance.

¹ The PIU should take adequate steps to ensure that there are no adverse impacts on the environment within 1 km radius of the listed protected areas during sub-project implementation. The Environmental Officers at the PIU/PNU need to ensure that the required avoidance, minimization and mitigation measures are taken care of during site selection, DPR preparation and implementation/construction stages of a sub-project. This will help facilitate project supervision and monitoring during the implementation stage as well.

Question	Yes	No	Details
d. Tiger Reserve/Elephant Reserve		✓	If yes, mention name and distance.
e. Wetland		✓	If yes, mention name and distance.
f. Important Bird Areas (IBAs)		✓	If yes, mention name and distance.
g. Coastal area with corals		✓	If yes, mention name and distance.
h. Mangrove area		✓	If yes, mention name and distance.
i. Estuary with mangroves		✓	If yes, mention name and distance.
j. Natural Lakes		✓	If yes, mention name and distance.
k. Swamps/Mudflats		✓	If yes, mention name and distance.
l. Habitat of migratory birds (outside protected areas)		✓	If yes, mention name and distance.
m. Migratory Route of Wild Animals/Birds		✓	If yes, mention name and distance.
n. Area with threatened/rare/endangered fauna (outside protected areas)		✓	If yes, mention name and distance.
o. Area with threatened/rare/ endangered flora (outside protected areas)		✓	If yes, mention name and distance.
p. Reserved/Protected Forest		✓	If yes, mention name and distance.
q. Zoological Park /Botanical Garden		✓	If yes, mention name and distance.
3. Is the sub-project located within 500 meters from rivers, streams, estuaries or deltaic mouths?		✓	If yes, mention name/s and distance/s.

Question	Yes	No	Details
4. Is the sub-project located in whole or part near any of the following sensitive features?²			
a. World Heritage Sites		✓	If yes, mention name and distance.
b. Archaeological monuments/sites (under ASI's central/state list) ³		✓	If yes, mention name and distance.
c. Historic Places (not listed under ASI – central or state list but regionally/locally important)		✓	If yes, mention name and distance.
d. Reservoirs/Dams		✓	If yes, mention name and distance.
e. Religious Places (Regionally or Locally Important)		✓	If yes, mention name and distance.
f. Public Water Supply Areas from Rivers/Surface Water Bodies/ Ground Water Sources		✓	If yes, mention name and distance.

Part B (2) : Result/Outcome of Environmental Screening Exercise		
1.	No Environment Impact Assessment Required	✓
2.	Environment Impact Assessment Required	✗
3.	CRZ clearance required	✗
4.	Environmental Clearance Required	✗
5.	Forest Clearance Required	✗

² The SDMA should take adequate steps to ensure that there are no adverse impacts within 1 km radius of the listed sensitive features/areas during sub-project implementation. The Environmental Officers at the PIU/PMU need to ensure that the required avoidance, minimization and mitigation measures are taken care of during site selection, DPR preparation and implementation/construction stages of a sub-project. This will help facilitate project supervision and monitoring during the implementation stage as well.

³ In case of archaeological sites/monuments, the prohibited area is 100 mts and the controlled area is 200 mts.

Note: Please refer to the relevant chapter of ESMP for information of regulatory framework and clearance requirements while Annexure No. --- provides guidance on conducting Environment Impact Assessment.

Part C (1) : Social Screening

1. Does the sub-project activity require acquisition of private land?			
Yes		No	✓
Give the following details:	Private Land (sq mts/hac.)		
	Govt. Land (sq mts/hac.)		✓
	Forest Land (sq mts/hac.)		
2. Does the proposed sub-project activity result in demolition/removal of existing structures?			
Yes		No	✓
If so, give the following details:			
• Number of public structures/buildings			
• Number of common property resources (such as religious/cultural/ drinking water/wells/etc)			
• Number of private structures (located on private or public land)			
3. Does the proposed Project activity result in loss of crops/trees?			
Yes		No	✓
4. Does the proposed Project activity result in loss of direct livelihood/ employment?			
Yes		No	✓
5. Does the proposed activity result in loss of mangrove ecosystem/community forest on which near by residents/local population are dependent for fuel wood/grazing etc.?			
Yes		No	✓
If yes, give the details of the extent of area to be lost (in acres/hac.).			
6. Does the proposed Project activity affect schedule tribe/caste communities?			
Yes		No	✓

Part C (2) : Result/Outcome of Social Screening Exercise		
	Output	Outcome
1.	Answer to all the question is 'No' and only forest land is being acquired	<input checked="" type="checkbox"/> No SIA/RAP required
2.	Answer to any question is 'Yes' and the sub-project does not affect more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	<input checked="" type="checkbox"/> Abbreviated RAP is required
3.	Answer to any question is 'Yes' and the sub-project affects more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	<input checked="" type="checkbox"/> SIA/RAP Required

11/03/09
 J.E.
 R.W. Section
 BPL

[Signature]
 Assistant Engineer,
 Rural Works Sub-Division
 Beliapal

[Signature]
 B. Baral
 Social Expert
 OSDMA

C. S.
[Signature]
 Executive Engineer,
 R. W. Divn., Jajpur.

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 GIS Expert & Env. Specialist (NCRMP)
 Orissa State Disaster Management Authority
 Rajiv Bhawan, Bhubaneswar, Orissa