

National Reconstruction Authority, (NRA) Management Information System (MIS)

Manual Part-3

NRA - MIS

User Manual Mobile-App Mobile based data collection from site level





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1.0 About this user manual

The User Manual contains all essential information for the user to make full use of the MIS and its operations parts of developed Management Information System. This manual includes a description of the system functions and capabilities, contingencies and alternate modes of operation, and step-by-step procedures for system access and use. Image and graphics has been used where ever possible to illustrate the software use steps of any event and activity under the software handling process.

NRA MIS user manual is the main document containing 3 parts of the software user manual developed under NRA MIS. This user manual is part 3 of the main user manual of NRA MIS covering mobile based applications uses for data capture, processing and uploading on the main server of NRA MIS.

1.1 NRA

The NRA is the legally mandated agency for leading and managing the earthquake recovery and reconstruction in Nepal. NRA provides strategic guidance to identify and address to the priorities for recovery and reconstruction, taking into account both urgent needs as well as those of a medium- to long-term nature. The NRA was formed on 25 December 2015, when the government appointed the Chief Executive Officer. The NRA's overall goal is to promptly complete the reconstruction works of the structures damaged by the devastating earthquake of 25 April 2015 and subsequent aftershocks, in a sustainable, resilient and planned manner to promote national interest and provide social justice by making resettlement and translocation of the persons and families displaced by the earthquake. NRA is committed to reconstruct, retrofit and restore partially- and completely-damaged residential, community and government buildings and heritage sites, to make them disaster-resistant using local technologies as needed.

1.2 MIS

NRA MIS has been developed primarily for Emergency Earthquake Assistance Project (EEAP) and other stakeholders supporting similar earthquake reconstruction initiatives in Nepal. The MIS has been developed for NRA and ministries to monitor the activities supported by the Asian Development Bank and other donors for monitoring of the projects, annual procurement plans, physical targets linked with line ministries and their financial budgets.



The MIS enables collection, analysis and monitoring the physical and financial progress for all civil work contracts and consultancies initiated for reconstruction post a disaster in the country. The data collection is supported by an online and android tab-based process, functional at all CLPIU and DLPIU levels. The data collection process includes real-time data capture and upload from GPS tagged location to see the actual progress at site level construction work linked with ongoing contracts. The data collection process will be monitored at NRA level with an administration support.

The MIS supports output generation. This includes tables, charts, maps, data consolidation reports, basic and advance analysis, pivot cross reports generation. These outputs facilitate monitoring the real-time progress on all the on-going projects.

Operationally, the NRA MIS is developed and organized to capture progress from different IAs functional as CLPIU for ministries and departments like DuDBC, DoE, DoR and DOLIDAR covering buildings, schools buildings, roads and rural roads respectively. The MIS is currently under finalisation and deployment trainings are being provided to the users of respective Govt. department to ministry.

1.3 Scope of MIS mobile application under NRA MIS

NRA MIS provides Google map based monitoring of GEO tagged reconstruction sites for all civil work contracts. Site engineers can use android TAB for real-time monitoring of site level activities for any allocated contract. The MIS server captures data from GPS enabled tab for real-time construction site visuals and data to produce reports for managers and top level decision makers. Data can be entered from Site level, DLPIUs for further monitoring at CLPIU and NRA level. This document provides the user level application operations information for android based data collection process. User using the android application under NRA MIS should use this manual to understand the application events and activities offered by the android based software. All the site level engineers, field surveyors etc. should take advantage of this user manual in order to utilise the application to its best.



2.0 Requirements

Listed below are the minimum hardware and software requirements that need to be ensured prior to start using the mobile software in any android device. This information can be checked by doing the following:

Step 1: Open android and click on "Settings" *Step 2*: Select "About" or "About Phone" as last option on the menu.

2.1 Mobile Hardware

Listed below are the minimum hardware requirements that need to be checked before installation on android OS.

1.	CPU	1.2 GHz or Higher
2.	RAM	1GB or Higher
3.	GPS version	20.2.xx.xx.xx Any version should be available
4.	WI-FI	4.xx.xx.xxx. Any version should be available

Table 1: Minimum hardware Requirements as Android device

2.2 Mobile Software

Listed below are the minimum software requirements for using the android devices

Table 2: Minimum Software Requirements as Android device

1.	Android version	4.2+ Any version of android above 4.2 can work
		If version is less than 4.2 then please try to
		upgrade the version or device as software will not
		work correctly on version lower than 4.2

See images



0:59 AM	Ø	😇 😤 🎿 🎟 87%	10:59 AM 📓	校 🕲 🛸 📶 🔳 80
	Settings		< About phone	
0	Lite mode	>	Device name	Dedmilidae
0	Child mode	>	Device name	Reuninnac
•	Additional settings	>	Model number	REDMI NOTE 3
ACCO	UNTS		Android version	5.1.1 LMY47V
0	Mi Account	1625628740 >		
8	Other accounts	>	Android security patch leve	2016-07-01
0	Sync	>	MIUI version	MIUI Global 7.5 Stable 7.5.3.0(LHOMIDE)
			CPU	Hexa-core Max1.8GHz
8	System apps	>	RAM	3.00GB
6	Installed apps	>	Internal memory	21.68GB available 32GB total
0	About phone	>	Baseband version	-8976_GEN_PACK-1.59336.1 .60150.2

2.3 Other important instructions

User must be comfortable using android any other smartphone to be able to use this software for data capture and upload on the NRA MIS server. This software doesn't require any special training on the OS itself and any basic android user can easily use the device and software for site level survey and progress monitoring including other activities under NRA MIS. The application has been designed as offline data collection process and online transfer of the data. User needs to be connected to internet only for preparation of the device and data syncing period; rest of the data collection and saving in the device can be executed as offline system and there is no need to be online all the time during use of the application.



3.0 Installation

User needs to install the application before started working on the app in mobile/android device. The application has not been hosted on Google play store as of now but eventually will be available after some time. The site users/engineers are currently given application by the NRA MIS helpdesk person whereas application will be shared as email setup. Please contact helpdesk person to get the application or ask Govt. department head to provide application setup at the time of training/demo. Users can also download application from this link. the nramis.org using http://nramis.org/tools/NRAMIS.zip. This link can be changed in future.

3.1 Android

Application can be installed on any android device passing through basic minimum hardware and software requirements provided in this document above. User using given version of software can download the application on their device and follow the steps below in order to start use of the application for survey. Users also need change the settings in android to make it open installation from unknown sources as application is not provided on Google play store as of now.

Step1. Open settings Step2. Open "security" or "privacy" settings





Step3. Make installation from "Unknown sources" as enabled (see images given above) Step4. Run the application .apk file after downloading and extracting from .zip



Downloading and Extracting from .zip file as .apk

Step5. Accept the terms and install the app





Click on next to install the app

Step6. Click on open to run the app for first time

Done Ope	n
----------	---

3.2 Setting up software for first use

After successful installation of the application users need to prepare the device for first time use with connected internet on the device. This part of the setup process cannot be executed without internet so please be connected with any stable Wi-Fi access point or be connected with 2G-3G connectivity of the service provider.



Step1. Please open application and click on button "Load device Data" to prepare the app for first time use. User needs to connected with internet before using this option

1	🗣 🕕 🗭 奈 🖬 📊 💷 13:03	
	(B)NRA	
Login here		
Email:	(required)	Alert
Password:		Device Ready for Use
	SUBMIT	Device Ready for Ose
		ок
	Load Device Data	

Click this button to start the data loading activity

Please make sure your device is connected with Internet before pressing button to "Load device Data" else nothing will happen in the preparation phase of the app.
In case users not getting the button "Alert:OK" then please click on the home button and then re click on the opp to get this as some of the opp version is not child to show up

and then re click on the app to get this as some of the app version is not able to show-up this screen .

After this user can login in the application with provided username and password to start the operations please contact with the facilitator in order to get the user name and password of the app based on your registration process and allocation of the GEO area in the field.



3.3 Login in the application

User now can login in the installed application with provided user name and password. Application already received the valid access credentials in the first time use which can be refreshed later also in case of any password change. Please follow the steps below to login in the application. User must enter valid credentials to login in the application.

Step1. Open the app for first time after setup

Step2. Enter valid user name and password given and click on "Submit"

	□ ∅ 🛜 🖪 . ■) 13:4
	NRA
Login here	
Email:	(required)
Password:	
	SUBMIT

Step3. User should be able to see the after login screen with these buttons





4.0 Software modules

There are various software module attached in the mobile app for various type of users. App provides different application uses for users of site and building survey and different modules access to users of progress monitoring and quality assurance monitoring from the site level against any contracts being monitored using the android device. Please follow steps below to see the various application modules and its uses.

4.1 Main menu

User can click on Menu on the main screen after logging in the app to see all the options and modules of the app. User can also click on the main screen buttons for quick access of the

application	View School Surve	/ List	school	SURVEV	list	and
application	View Building Survey List	huilding our			rofroch	hutten
	Refresh Project Master	building surv	ey list along	with maser	reiresn	DULLON
		to refresh all	the masters a	gain.		

Step 1: Click on the "Menu" button to see the main menu as shown below.





4.2 School survey

User can click on in the main menu to start the module. Module provides options and events to execute the field level school survey to record and report the status of damage happened on the school building at the time of disaster. The module can record the data from the official's interview and school location survey using the app. The survey has got 15 parts of the forms in order to complete the survey activity which includes clicking images and storing the GEO location from the satellite using the built-in android GPS chip in the user android device. Please follow the steps below to entry and edit data in the school survey module.

4.2.1 Data entry

User can open the module and can click on the start survey to start the survey of the school building after reaching to the location. Please see instructions and steps below to complete the 15 parts of the survey form.

	ullú ĝ 🛜 B .il Il 14:
Menu	NRA
	Start Survey
EMIS Code	(required)
Survey Date	(required)
16/08/2016	
Survey Start Time	
14:23:24	
	Save Details
Xooooo	Start Survey

Step 1: Click on the "Start school survey" in the main menu.

Step 2: Enter EMIS code (Most important to start and run the survey). And click on "Save Details".

Option to enter data and click on "save details" is on every part of the forms and user must follow this carefully while entering data in the app.



Step 3: After entering the EMIS code and saving the information please click on "Start survey".

Step 4: Enter details in the form and click on "save" and then user will get this message for saving of the data confirmation see below.

\odot	∥ <mark>]</mark> ∥∅ 🎅 🖪 . 📑 15:30
Menu	ONRA
	Start Survey
EMIS Code	
Survey Date	
16/08/2016 Survey Start Time	
Alert	
Data Save	d with EMIS Emis00045
	ОК

Step 5: Enter data in Part 1 for all required fields and "Save" data to continue to part 2 by pressing "Next"_____

Ø	🗣 🕕 🇭 🎅 🖁 📊 💷 15:30	Ð	🕕 🎗 奈‡ 🖪 川 📑 15:30
Menu	(S)NRA	Menu	(S)NRA
	Part-I	km	
	EMIS Code selected :Emis00045	Flagstone:	
Move Next Location Bloc	ck	Other1:	
		Specify Type Of N	faterial
District:	(required) Ward No.:	km	
VDC/Municipali	ity: Settlement Name:	Other2:	
		Specify Type Of N	faterial
Tole:		km	
Is it located v	within the Main City Area or Market Center:	School Info	
Name of the M	ain City Area, Market Centre:	Name of School	
If not Distance	from the nearest City or Market Centre:	EMIS Code: Emis00045	
GPS Coordin	ate of the site:		Save Details
Finding Geoloci	ation		Next



Step 6: Enter data in Part 2 for all required fields and "Save" data to continue to part 3 by pressing "Next"

Ø	ا اً 💭 🎅 🖪 📶 💷 15:30	Ø	🕕 🗭 奈 ; R 💷 15:30
Menu	(S)NRA	Menu	(S)NRA
	Part-II	Contact No.:	
	EMIS Code selected :Er	Signature:	
Move Next 3.		Organization:	
Survey Team:		Team Members:	
Survey Group	ID:	Name:	Organization:
		Name:	Organization:
Survey Date:		Name:	Organization:
		Name:	Organization:
Survey Team L	Leader:		
Name:			Save Details
Contact No.:			Next
Signature:			
Completion			

Step 7: Enter data in Part 3 for all required fields and "Save" data to continue to part 4 by pressing "Next"



ଚ	[] ∅ 奈: B., ■ 16:35	Ø	□ 💢 奈‡ 🖪 , ■ 16:36
Menu	(B)NRA	Menu	SNRA
	Part-III	5.1 Is the school	ol connected to electrical supply line
	EMIS Code selected :Emis0004!	N/A	
Move Next		Type Source :	
4. Accessibilit	y [Y/N]		
N/A		5.2 Does the so	chool have regular water supply source
		N/A.	
4.1 Select Typ	e of Road:	Type Source :	
N/A			
4.2 If no vehic	ular access, walking distance from the	5.3 Does the so	chool have internet facility
nearest main i	road:	N/A	
Rm/P	r (e.g 10/2).	Type Source :	
5. Services			
5.1 Is the scho	ol connected to electrical supply line		Save Details
N/A			Next
Type Source :			

Step 8: Enter data in Part 4 for all required fields and "Save" data to continue to part 5 by pressing "Next"

Ø	llllll) 🛱 奈‡ 🖪 📶 📑 15:30	D	I □IÍQ 🛜: B.1 ■1 15:30
Menu	(S)NRA	Menu	(S)NRA
	Part-IV EMIS Code selected :E	6.6 Total No. of Staff	55
Move Next	af	No. of Teachers:	
6.1 Select Typ	pe of School:	No. of Admin. Sta	affs:
N/A	stablishment (AD/BS):	6.7 Total No. of Stud	ients:
		No. of Boys:	
6.3 Details of Name :	Head Master/School In-charge:	No. of Girls:	
Contact No. :			
Address :			Save Details
6.4 Details of Name :	SMC Chairperson/Secretary:		



Step 9: Enter data in Part 5 for all required fields and "Save" data to continue to part 6 by pressing "Next". In this part users can enter data for multiple rows as shown below.

Ð	- B ; R . I	15:31	Ð	□ ∅ ≑‡ B.,	15:31 🕥	-	j j j	ê: 🛛 👘	15:33
Menu	SNRA		Menu	NRA	Me	enu	S NRA		
Move Next	Part-V	EMIS		Save Details Next			Save Details Next		
Block No No. of Story	inage states		Note:			Block No 1	No. of Story Class room	Open Record Open	Delete Delete
Classroom Age of bldg. (year	er)		Structure Type A=RCC Frame Stru Masonry in c/c m Masonry in mud (Specify:	tt ucture, B=Brick Masonry in c/c mortar, C ortar, D=Brick Masonry in mud mortar, B mortar, F=Steel Frame with Steel Truss, C 	=Stone Si =Stone A= 5=Others A= M	tructure Typ =RCC Frame Si lasonry in c/c r	pe: tructure, B=Brick Masonry ir mortar, D=Brick Masonry in d mortar, F=Steel Frame witi	n c/c mortar, C= mud mortar, E= n Steel Truss, G	Stone =Stone =Others
Structure Type (/ Roof Type (a·d) Damaged State ((1-4)		Roof Type: a=RCC Slab, b=St Structure with CO	eel Truss with CGI Sheet, c=Timber/Bamb II Sheet, d=Others (Specify:)	(S) 2000 R ر 4= 5t	oof Type: =RCC Slab, b=S tructure with C) Steel Truss with CGI Sheet, c CGI Sheet, d=Others (Specify	=Timber/Bambi	00
Assessment need Remarks	ded (Y/N)		Damaged State 1=completely dar damage	e: maged, 2=Major damage, 3=Minor damaj	ge, 4=No D 1* di	amaged Sta ∝completely da amage	, te: amaged, 2=Major damage, 3	I=Minor damag	e, 4=No

Multiple rows can be entered and removed if required using the delete option. User must confirm the actual no. of rows entered in the device for any school before data syncing as once data is uploaded that cannot be removed by user.

Step 10: Enter data in Part 6 for all required fields and "Save" data to continue to part 7 by pressing "Next". In this part users can enter data for multiple rows as shown below.



2	- II. II - R 🤅	15:33 🕑 🖿 🕕 🖄 🎲 🖪 📊 🖬 15:33
Menu	Senta	Menu 😂NRA
	Part-VI EMIS Code selected :Emis00045	No
Move Next 8. Condition of	of Toilet Facility	If NO, what type of facility is not working? Darmaged
No. of Toilet I	Blocks:	Any comments about cleanliness:
2		
No. of Boy's T	'oilet:	
2		Save Details
No. of Girl's T	oilet:	Next
1		
Are all the to	ilets functional (Y/N):	
No		
If NO, what ty	ype of facility is not working?	
Damaged		

Step 11: Enter data in Part 7 for all required fields and "Save" data to continue to part 8 by pressing "Next". In this part users can enter data for multiple rows as shown below.

Mover Next 9. Condition of No / Other	P: P: Temporary I m Structure	NRA art-VII Buildings	EMIS Cr	ode selec	Mer	NerNe		P	INRA art-VII		
Move Next 9. Condition of Block Classroo No / Other	P: Temporary I m Structure	art-VII Buildings	EMIS C	ode seler	Mo	we Ne		P	art-VII.		
9. Condition of Block Classroo No / Other	Temporary I	Buildings			Mo	we Ne	221				
9. Condition of Block Classroo No / Other	Temporary I	Buildings					and a				
Block Classroo No / Other	m Structure				9.0	Cond	ition of T	emporary	Buildings		
	Type(A-D)	Is Material reusable (Y/N)	Easy to relocate (Y/N)	Remarks		Block No	Classroom / Other	Structure Type(A-D)	Is Material reusable (Y/N)	Easy to relocate CY/N	Remark
						1	1	A	Y	Y	Bxbd
					1	Block	No Clas	s room is M	terial Receable	Onen Record	Delete
						1		1	Y	Open	Delete
	Sa	ve Details									
2		Next						Sa	ve Details		
						_			Next		

Step 12: Enter data in Part 8 for all required fields and "Save" data to continue to part 9 by pressing "Next".



Ø	∥🗍 🏹 🎅 🖪 . ■ 15:33	Ø	∥]∥́Q́ ?? В.1 ■ 15:33
Menu	(B)NRA	Menu	(3) NRA
	Part-VIII	Remark	ership
	EMIS Code selected :Emisu0045	N/A	
Move Next 10. New Cons	struction Space	Land Ownership	Certificate in the name of school
		N/A	
10.1 Is there s materials in t	space available for storing construction he site?	Government Lan school	nd & VDC/Municipality has given letter for use for
N/A		N/A.	
Remark		Government Lan to school	nd & VDC/Municipality has yet to issue letter for use
		N/A	
10.2 Is there e activities?	enough water available for construction	Private Land & L	and Owner has given the land for use for school
N/A		N/A	
1976		Private Land & O	owner has yet to issue the letter for use to school
Remark		N/A.	
10.3 is there s without demo	space available for new building construction olishing Temporary Building?		Save Details
N/A			
Remark			Next
10.4 If Tempo	orary Building is demolished for construction		
of now building	na is there any alternative colution needblo		

Step 13: Enter data in Part 9 for all required fields and "Save" data to continue to part 10 by pressing "Next".

\odot		?;∎"	15:34	⊘ ∎	- 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	🕄 🖪 📶 🔳 15:34	Ø	- - - - - - - - - - - - - - - - - - -	J.,	15:34
Mei	nu 🕙NRA			Menu	S NRA		Menu	S NRA		
							Encroachment	on historical/cultural areas	N/A	
	Part-IX		EMIS Code		Part-IX	EMIS Code selector	Encroachment	on precious ecology	N/A	
			Enilo Code			Emis code selecter	Impacts on the and solid waste	sustainability of associated sanitation disposal systems	N/A.	
11	Environmental Information			11. Environme	ntal Information		Dislocation or in	woluntary resettlement of people	N/A	
a) 1	The school-site is adjacent to or within an	iy of the follow	ing areas.	a) 1		_	Disproportional children, Indige groups	te impacts on the poor, women and nous Peoples or other vulnerable	N/A	
N/A	Adjacent to or within	Yes/No	Remarks	N/A			Occupational ar	ad community health and safety risks	N/A	
	Underground utilities	N/A					Requirements I spoil materials	or disposal of fill, excavation, and/or	N/A	
	Protected area	N/A		Yes			Long-term imp needing to drai	acts on groundwater flows as result of n the project site prior to construction	N/A.	
	Wetland	N/A					Social conflicts countries are h	if workers from other regions or red	N/A.	
	Mangrove	N/A		No		\bigcirc	Risks to commo shock, or failure	nity safety caused by fire, electric e of the buildings safety features	N/A	
	Estuarine	N/A				\smile	during operatio	n		
	Buffer zone of protected area	N/A		Buffer zone o	f protected area	N/A	Uniers Capecity	1	N/A	
	Special area for protecting biodiversity	N/A		Special area f	or protecting biodiversity	N/A				
	Bay	N/A		Bay		N/A				
	Others (Specify)	N/A		Others (Speci	(y)	N/A		Save Details		
								Next		
b) /	Any Potential Environment Impacts that	will caused by	the school	b) Any Potential	Environment Impacts that wil	I caused by the school				6



Step 14: Enter data in Part 10 for all required fields and "Save" data to continue to part 11 by pressing "Next".

u 🥴NRA			Menu	(NRA
Part-X			Information or	Displaced Persons
			a) Any estimate o school-project?	f the likely people that will be displaced by the
ve Next Probable Involuntary Resettlement Effec	rts		N/A	
riobable involuntary Resettlement Enter			If Yes, Approx.	no. of people
1) Involuntary Acquisition of Land.			Remarks	
Particular	Yes/No	Remarks	b) Any female-he	ad of households or vulnerable to poverty risks?
Will there be any land acquisition?	N/A		N/A.	
Is the site for land acquisition known?	N/A		If Yes, Approx.	no, of people
Is the ownership status & current usage of land to be acquired known?	N/A		Remarks	
Will easement be utilized within the area where the school existed?	N/A		c) Any displaced (N/A.	persons from indigenous or ethnic minority group
Will there be loss of shelter & residential land due to land acquisition?	N/A		If Yes, Approx. I	no. of people
Will there be losses of crops, trees δ_i fixed assets due to land acquisition?	N/A		Remarks	
Will there be loss of businesses or enterprises due to land acquisition?	N/A		2	
Will there be loss of income sources & means of livelihoods due to land acquisition?	N/A			
			L	Save Details
2 Involuntary restrictions on land use or o	on acces	is to		Next
ally designated parks & protected areas				

Step 15: Enter data in Part 11 for all required fields and "Save" data to continue to part 12 by pressing "Next". In part 11 users also need to click the image by clicking the image button as shown below.



After clicking the image capture button

the camera will open to

capture image and saved images will re appear in the app for further saving to database.
User should be careful in taking images using the camera. It should be correct in light and sharpness balance and should be taken from perfectly above the site plan paper.

Image can be re-clicked by pressing the same button in order to edit the image.





Step 16: Enter data in Part 12 for all required fields and "Save" data to continue to part 13 by pressing "Next". In part 12 users also need to click the image by clicking the image button as shown below.

5	-l 🗊 🔅 🕅 🕕	17:24	ı, B 🗟 🕲 🗇	17:25
Menu	S NRA	Menu	S NRA	
	Part-XII		Part-XII	EMIS
Move Next 14. Take Goog phone/tablet	gle Map location screen capture in	Move Next 14. Take Goo phone/table	ogle Map location screen capture in t.	
27.7187758 85.3189983 Tue Aug 16 20	016 17:24:09 GMT+0545 (NPT)	27.7187756 85.3189983 Tue Aug 16 2	2016 17:24:09 GMT+0545 (NPT)	
<u></u>	$\mathbf{\hat{v}}$			
	Save Details		Save Details	
	Next		Next	



➔ User should see longitude and latitude information up 6 decimal places be appearing on the screen automatically but in case this information is missing then please enter this information up to 6 decimal places using other GEO coordinates finder.

If GEO coordinates information is missing then users android hardware is not supporting GPS hence this needs to be corrected manually by entering the data in the app.

Step 17: Enter data in Part 13 for all required fields and "Save" data to continue to part 14 by pressing "Next". In part 13 users also need to click the image by clicking the image button as shown below.



User need to enter 4 images for east, west, north and south location by capturing directly from different locations in app. The image capture should cover whole building correctly.

Step 18: Enter data in Part 14 for all required fields and "Save" data to continue to part 15 by pressing "Next". In part 14 users also need to click the image by clicking the image button as shown below.



6	- B. I 🖿	17:44	🕕 🗭 🎅 🖪 📊 📑 17:45
Menu	(3) NRA	Menu	S NRA
EMIS Co	Part-XIV ode selected :Emis00045	MoveMexi 16. Minutes of members, Staff	Meeting with Local Representatives, SMC 5 & Others.
Move Next 16. Minutes of members, Stal Date:	f Meeting with Local Representatives, Sh Iffs & Others.	Date: 08/07/2016 Venue: Venue address	
Venue: Venue Attendees			
	\sim		Save Details
	Save Details		Next

Step 18: Enter data in Part 15 for all required fields and "Save" data. Part 15 is last part for any one survey and user can continue with next survey or can sync data to server.

گ	j Di Q	🛜 🖥 📶 🔲 17:45		ලි 🛜 🖪 . 📑 17:45
Menu	Second		Menu 🙆NR	A
alocted Emich	Part-XV		school catchment area (if the info collected):	rmation can be
17. Any othe	r important information.			
a) If there is a in hilly rural i densely popu	any other schools within : region) or within 1 km dis ılated area),	2 km distance (if it is stance (if it is in a	Obtain climatic records of last 50 persons (asking them about the hi temperature, rainfall, landslides/I	years from elderly ighest/lowest flood/snowfall/storm etc.
S.N.	Name of the school	School Type	during the span of 50 years).	
1		N/A.		
2		N/A.		
3		N/A.		4
4		N/A.	Any other relevant information:	
5		N/A.		
b) Any displa minority grou	ced persons from indiger ups?	ous or ethnic	Submit	
Remarks				
			Sync Data	n
c)Major profe (approximate	ession/trades in the catcl ely)	nment		



7 User can continue data entry for next survey or can sync data also if connectivity is available. Same data or schedule can be re loaded for editing also in case of any requirements before syncing of the data to server.

4.2.2 Data modification in school survey

User can open the entered data for editing in the list mode. This option allows user to edit any schedule entered in the app before syncing process. User can also change images and text based on the requirements. But user needs to be careful as all image capture also takes note of GPS information from GPS satellite so it is recommended to recheck all the data before leaving the site. Please follow steps mentioned below in order to modify the information of any entered sire survey schedule.

List data



Step 2: Check and select the schedule to be modified and click on "Open" _____



lenu	() NF	RA	
ist Data			
	Show	list	
EMISCode	Show Date	list Open	Delete

Step 3: Loaded schedule will appear in the same form where data entry happened. Now select the menu again.

E *	- - - - - - - - - - - - - -	R 18:08	ę			j (R ((î	18:18
Menu	SNRA			f	¥	g+	×	Menu
	Start Survey			Ø	N F	RA		
	New Entry			-				
EMIS Code Emis00045		(required)	NAVIGA	Home				Move Next
Survey Date		(required)	III					7. Building D
16/08/2016 Survey Start Time 15:29:54			/	Form Part	-1			Block No
	Save Details		1	Form Part	-2			No. of Story
	Start Survey							Classroom
			/	Form Part	-3			Age of bldg. (ye

Step 4: Click on the part that needs to be modified from menu and jump to the part where modification needs to be done and make required changes and press "Save" button again.



-	5	Ū ļ	?≑∎.ıI	18:09	ロ 🤄 山 岡 奈 🖪 II 💵 18:09
Menu SNRA					
Part-VI S Code selected :Emis00045					
Move N 8. Cond	at dition of Toilet	Facility			No. of Girl's Tollet:
No. of	Foilet Blocks:				Are all the toilets functional (Y/N):
3					Alert
No. of	Boy's Toilet:				Data Saved for EMIS Emis00045
					ОК
+	1	2	3	•	Any comments about cleaniness:
(4	5	6	;	
) -	7	8	9		Save Details
. ′	*	0	#	Next	

User can follow the same method to modify the images also before syncing process. Data can be modified wherever required.

4.3 Building survey

User can click on provides options and events to execute the field level building survey to record and report the status of damage happened on the building at the time of disaster. The module can record the data from the official's interview and building location survey using the app. The survey has got 15 parts of the forms in order to complete the survey activity which includes clicking images and storing the GEO location from the satellite using the built-in android GPS chip in the user android device. Please follow the steps below to entry and edit data in the building survey module.

4.3.1 Data entry

User can open the module and can click on the start survey to start the survey of the building after reaching to the location. Please see instructions and steps below to complete the 15 parts of the survey form.



Step 1: Click on the "Start building survey" in the main menu.

the state of the s	🕕 🏹 泠 🖪 . 🛛 🖿 18:3
Menu	NRA
	Start Survey
UID Code	(required)
Survey Date	(required)
16/08/2016	
Survey Start Time 18:31:08	
	Save Details
	Start Survey

Step 2: UID code for building is auto generated and no need to enter and/or modify the same (This is Most important to start and run the survey for building). And click on "Save Details" to continue.

Option to enter data and click on "save details" is on every part of the forms and user must follow this carefully while entering data in the app.

Step 3: After entering the UID code and saving the information please click on "Start survey".

Step 4: Enter details in the form and click on "save" and then user will get this message for saving of the data confirmation see below.





Step 5: Enter data in Part 1 for all required fields and "Save" data to continue to part 2 by pressing "Next"

. 4	🕕 💢 泠 🖪 18:31	₽ ₽	🕕 🗭 奈† 🖪 , 18:31
Menu 😢	NRA	Menu	NRA
Pa UID Code selected :Er	r t-I n7TBTWA	Flagstone: km	
Move Next Location Block		Other1: Specify Type Of M	aterial
District: (required)	Ward No.:	km Other2:	aterial
VDC/Municipality:	Settlement Name:	km	
Tole:		Building Info	
Is it located within the Main (City Area or Market Center:	Name of Building :In given	dicate location with building address if no name
Name of the Main City Area, Mark	et Centre:	Baseline UID Code:	This will be auto generated which can be changed if
If not Distance from the nearest C	ity or Market Centre:	Em7TBTWA	
GPS Coordinate of the site:			Save Details
			Next
Latitude:			

Step 6: Enter data in Part 2 for all required fields and "Save" data to continue to part 3 by pressing "Next"



@©©?≑¤.,, Æ Menu <mark></mark> ଔNRA	19:01 C	ାଇ ବିଶ୍ୱ 🖬 🖬 🖓 ତ୍ରିNRA
Part-II UID Code selected :£m7TBTWA	Contact No.: 319464999 Signature: Ndjsjdj	
Survey Team:	Organization: Djdjdjd Team Members:	
Survey Group ID:	Name: Name 1 Name:	Organization: Org1 Organization:
Survey Date:	Name:	Organization:
Survey Team Leader: Name:	Name:	Organization:
Contact No.:		Save Details
Signature:		

Step 7: Enter data in Part 3 for all required fields and "Save" data to continue to part 4 by pressing "Next"

\mathfrak{O}	🕛 🗭 🎅 🕏 🖪 📶 🌆 19:12	<u>م</u>	🕕 🗭 🛜 🕯 🖪 📲 🌆 19:13
Menu	(B)NRA	Menu	(B)NRA
	Part-III	5.1 Is the build	ing connected to electrical supply line
Move Next		Yes Type Source :	
4. Accessibili	ity [Y/N]		
N/A		Yes	liiding have regular water supply source
4.1 Select Ty	pe of Road:	Type Source :	
N/A		Tuu	
4.2 If no vehi nearest main	cular access, walking distance from the road:	5.3 Does the bu	ilding have internet facility
km/	Hr (e.g 10/2).	N/A Type Source :	
		Gfgg	
5. Services			
5.1 Is the buil	lding connected to electrical supply line		Save Details
N/A			Next
Type Source :			



Step 8: Enter data in Part 4 for all required fields and "Save" data to continue to part 5 by pressing "Next"

E 💭	🕕 🗭 🛜 🖪 "🛛 🖽 19:	8 E 0	🕕 💢 🎅 🕯 🖪 📊 🐼 19:19
Menu	(B)NRA	Menu	(B)NRA
UID Coo	Part-IV de selected <mark>Em7TBTWA</mark>	6.2 Year of Co	onstruction (AD):
Move Next	16	6.3 Details of Name :	Office Chief:
6.1 Select Type of	f Building:	Jfjfjf Contact No. : 31646494	
6.2 Year of Const	ruction (AD):	6.4 Total No. of Sta	ffs:
6.3 Details of Off	ice Chief:	2 No. of Clerk: 1	
Name :		No. of Others: 0	
			Save Details
6.4 Total No. of Staffs:			Next
No. of Clerk:			

Step 9: Enter data in Part 5 for all required fields and "Save" data to continue to part 6 by pressing "Next". In this part users can enter data for multiple rows as shown below.



በ. 🕕 🛱 🎓 🔒 📊 🚰 19:21	Ω (Ĵ) Ώ 🔶 R M 🛃 19::
Menu 🚱NRA	Menu 🔮NRA
Part-V UID Code selected :	Gghh Block No. of Story Class room Age of bldg. (year) Open Record Delete 1 2 5 12 Open Delete
Move Net	Save Details
Block No	Next
No. of Story	Note:
Rooms	Structure Type:
Age of bidg, (year) Structure Type (A-G)	A=RCC Frame Structure, B=Brick Masonry in c/c mortar, C=Stone Masonry in c/c mortar, D=Brick Masonry in mud mortar, E=Stone Masonry in mud mortar, F=Steel Frame with Steel Truss, G=Others (Specify:)
Roof Type (a-d)	Roof Type: a=RCC Slab, b=Steel Truss with CGI Sheet, c=Timber/Bamboo
Damaged State (1-4)	Structure with CGI Sheet, d=Others (Specify:)
Assessment needed (Y/N)	Damaged State:
Remarks	1=completely damaged, 2=Major damage, 3=Minor damage, 4=No damage

Multiple rows can be entered and removed if required using the delete option. User must confirm the actual no. of rows entered in the device for any school before data syncing as once data is uploaded that cannot be removed by user.

Step 10: Enter data in Part 6 for all required fields and "Save" data to continue to part 7 by pressing "Next". In this part users can enter data for multiple rows as shown below.



Ð	🕕 💢 🛜 🕯 🖪 川 🜆 19:36
Menu	S NRA
	Part-VI
	UID Code selected :Em7TBT
Move Next 8. Load Bearli	ng Capacity of building
Description :	
	Save Details
	Next

Step 11: Enter data in Part 7 for all required fields and "Save" data to continue to part 8 by pressing "Next". In this part users can enter data for multiple rows as shown below.

tion of Temporar	(Temporar	F	Part-VII		UII	Mer 9. (nu we Ne	ition of	(Tempora	Part-VII	UD	Code sele	
	Room/	Structure Turne(A_D)	Is Material	Easy to	Remarks		Block	Room / Other	Structure Type(A-D)	Is Material reusable (Y/N)	Easy to relocate CY/ND	Remarks	
500	oter	(here a)	redsable cr/ND	Nerocace L1/No			1	2	A	Y	Y	Dndnnd	
		S	ave Details				Block 1	«No R	2	Y Y Save Details	Open Record Open	Delete Delete	
			Next							Next		4	

Step 12: Enter data in Part 8 for all required fields and "Save" data to continue to part 9 by pressing "Next".



3	🕕 🗭 🛜 🕯 🖪 📶 🌆 19:40		🕕 🇭 🎅 🖪 📶 🜆 19:41
Menu	(S)NRA	Menu	(3) NRA
	Part-VIII UID Code selected :Em7TB'	N/A d) Length of Boundary	Wall needed:
Move Next 10. New Construct	tion Space	Type of Wall (Please ch	noose):
10.1 Is there space materials in the sit	e available for storing construction te?	e) Access Road to be b Number	uilt/developed
N/A Remark		m f) Remark Remark	
10.2 ls there enous activities?	gh water available for construction	10.10 Land ownership	
N/A		Land Ownership Certif	ficate in the name of office
Remark		N/A	
10.3 Is there space without demolishing	available for new building construction ng Temporary Building?		Save Details
N/A Remark			Next
10.4 If Temporary	Building is demolished for construction		

Step 13: Enter data in Part 9 for all required fields and "Save" data to continue to part 10 by pressing "Next".

E)	() () () ()	19:43	• •	÷ې ۲	🖪 📶 🚰 19:43	⊙ ∎	- - - - - - - - - - - - - - - - - - -	B 15:34
Menu	SNRA		Menu			Menu	B NRA	
	-					Encroachment o	n historical/cultural areas	N/A
	Part-IX			Part-IX		Encroachment o	on precious ecology	N/A
	OID CODE SEIECTED .EIT/TETW	<u> </u>				Impacts on the s and solid waste	sustainability of associated sanitation disposal systems	N/A
11. Environmenta	I Information		11. Environmental l	nformation		Dislocation or in	voluntary resettlement of people	N/A
a) The Building-site i	s adjacent to or within any of the	ollowing	a) [Disproportionat children, Indiger groups	e impacts on the poor, women and nous Peoples or other vulnerable	N/A
areas.			N/A			Occupational an	d community health and safety risks	N/A
Adjacent to or with	hin Yes/	No Remarks			\sim	Requirements for spoil materials	or disposal of fill, excavation, and/or	N/A
Underground utilit	lies N/A		Yes		\bigcirc	Long-term impa needing to drain	ects on groundwater flows as result of the project site prior to construction	N/A
Protected area	N/A				\smile	Social conflicts i	f workers from other regions or red	N/A.
Wetland	N/A		N.			Risks to commu	nity safety caused by fire, electric	NZA
Mangrove	N/A		NO			shock, or failure during operation	of the buildings safety features n	N/A
Estuarine	N/A		Estuarine		10A	Others (Specify)	E	N/A
Buffer zone of pro	tected area N/A		Buffer zone of protec	cted area	N/A			
Special area for pr	otecting biodiversity N/A		Special area for prote	ecting biodiversity	N/A			
Bay	N/A		Bay		N/A		Save Details	
Others (Specify)	N/A		Others (Specify)		N/A			-
							Next	



Step 14: Enter data in Part 10 for all required fields and "Save" data to continue to part 11 by pressing "Next".

			Menu	SINKA
Part-X			Information or	Displaced Persons
			a) Any estimate o school-project?	f the likely people that will be displaced by the
ve Next Probable Involuntary Resettlement Effec	cts		N/A	
			If Yes, Approx. r	io. of people
1) Involuntary Acquisition of Land.			Remarks	
Particular	Yes/No	Remarks	b) Any female-he	ad of households or vulnerable to poverty risks?
Will there be any land acquisition?	N/A		N/A	
Is the site for land acquisition known?	N/A		If Yes, Approx. r	o, of people
Is the ownership status & current usage of land to be acquired known?	N/A		Remarks	
Will easement be utilized within the area where the school existed?	N/A		c) Any displaced p N/A	persons from indigenous or ethnic minority group
Will there be loss of shelter $\&$ residential land due to land acquisition?	N/A		If Yes, Approx. r	to, of people
Will there be losses of crops, trees $\&$ fixed assets due to land acquisition?	N/A		Remarks	
Will there be loss of businesses or enterprises due to land acquisition?	N/A		~	
Will there be loss of income sources & means of livelihoods due to land acquisition?	N/A			
			L	Save Details
2 Involuntary restrictions on land use or o	on acces	s to		Next
2 Involuntary restrictions on land use or o ally designated parks & protected areas	on acces	sto		Next

Step 15: Enter data in Part 11 for all required fields and "Save" data to continue to part 12 by pressing "Next". In part 11 users also need to click the image by clicking the image button as shown below.



After clicking the image capture button

the camera will open to

capture image and saved images will re appear in the app for further saving to database.
User should be careful in taking images using the camera. It should be correct in light and sharpness balance and should be taken from perfectly above the site plan paper.

Image can be re-clicked by pressing the same button in order to edit the image.





Step 16: Enter data in Part 12 for all required fields and "Save" data to continue to part 13 by pressing "Next". In part 12 users also need to click the image by clicking the image button as shown below.

5	d) 🖄 📚 🛙 🕕	17:24 ED	🕛 🗭 🎅 🖪 📊 🌆 19:52
Menu	(B)NRA	Menu	SNRA
	Part-XII		Part-XII
Move Next 14. Take Googl phone/tablet.	le Map location screen capture in	MoveNext 14. Take Go phone/table	ogle Map location screen capture in t.
27.7187758		27.7190357	
85.3189983		85.3203129	
Tue Aug 16 201	16 17:24:09 GMT+0545 (NPT)	Tue Aug 16	2016 19:51:47 GMT+0545 (NPT)
2	\mathbf{N}		
	Save Details		Save Details
	Next		Next



➔ User should see longitude and latitude information up 6 decimal places be appearing on the screen automatically but in case this information is missing then please enter this information up to 6 decimal places using other GEO coordinates finder.

If GEO coordinates information is missing then users android hardware is not supporting GPS hence this needs to be corrected manually by entering the data in the app.

Step 17: Enter data in Part 13 for all required fields and "Save" data to continue to part 14 by pressing "Next". In part 13 users also need to click the image by clicking the image button as shown below.



User need to enter 4 images for east, west, north and south location by capturing directly from different locations in app. The image capture should cover whole building correctly.

Step 18: Enter data in Part 14 for all required fields and "Save" data to continue to part 15 by pressing "Next". In part 14 users also need to click the image by clicking the image button as shown below.



¢2	DIX 🔶 B.1	20:50	🕕 🗭 🎅 🖥 📊 📑 20:50
Menu	(B)NRA	Menu	(B)NRA
	Part-XIV	Date: 08/12/2016	
	UID C	ode sel-	
Move Next		Venue	
16. Minutes / r image). Date: 08/12/2016 Venue: Venue Attendees	requirements / detailed note if any <i>(Cli</i>	ck	
			Save Details Next
	Save Details		

Step 18: Enter data in Part 15 for all required fields and "Save" data. Part 15 is last part for any one survey and user can continue with next survey or can sync data to server.

9	, © ∅ (]	🕆 R 🔐 🚺 20:50		III 🗭 ᅙ 🕯 🖪 📊 🔤 20:51
Menu	(S) NRA		Menu	(B)NRA
	Part-XV UID Code s	elected :Em7TBTWA	building catch collected): Udjjddd	ment area (if the information can be
17. Any oth	ner important information.			
a) If there is in hilly rura densely po	s any other building within 2 k al region) or within 1 km distar pulated area),	rm distance (if it is nce (if it is in a	Obtain climat persons (askir temperature, during the spa	ic records of last 50 years from elderly 1g them about the highest/lowest rainfall, landslides/flood/snowfall/storm etc. 1n of 50 years).
S.N.	Name of the Govt. Building	Building Type	Dudhdhd	
1		N/A		
2		N/A		
3		N/A	Any other rele	evant information:
4		N/A	Dhdhdhd	
5		N/A		
b) Any disp minority gr	laced persons from indigenou roups?	is or ethnic		Submit
Remarks				Sync Data
c)Major pro	ofession/trades in the catchm ately)	ent		



7 User can continue data entry for next survey or can sync data also if connectivity is available. Same data or schedule can be re loaded for editing also in case of any requirements before syncing of the data to server.

4.2.2 Data modification in building survey

User can open the entered data for editing in the list mode. This option allows user to edit any schedule entered in the app before syncing process. User can also change images and text based on the requirements. But user needs to be careful as all image capture also takes note of GPS information from GPS satellite so it is recommended to recheck all the data before leaving the site. Please follow steps mentioned below in order to modify the information of any entered sire survey schedule.

List data

Step 1: Open list from main menu by pressing this button



Step 2: Check and select the schedule to be modified and click on "Open" _____



enu		ାଣାଡି ଲି: NRA	R .II
ist Data	-		
ist Data			
	Sh	ow list	
UID	Sh Date	ow list Open	Delete

Step 3: Loaded schedule will appear in the same form where data entry happened. Now select the menu again.

1	□ ∅ 🔶 R	21:03	ŝ			Ū Ū	R ((:	
Menu	(B)NRA			f	¥	g+	×	Menu
	Start Survey			R	NF	RΔ		
	New Entry				PINI	v		elected :Em7TB
UID Code		(required)	NAVIGAT	ON				
Em7TBTWA			A.	Users				Move Next Location Blo
Survey Date		(required)	R	Plome				
Survey Start Tin	ne			-	_			District:
18:31:08			1	Form Part	1			He HD
	Save Details							VDC/Municipal
	Start Survey		1	Form Part	-2			Sbdbd
								Tole:

Step 4: Click on the part that needs to be modified from menu and jump to the part where modification needs to be done and make required changes and press "Save" button again.





7 User can follow the same method to modify the images also before syncing process. Data can be modified wherever required.

4.4 Progress Monitoring site level

Progress Monitoring

User can click on in the main menu to start the module. Module provides options and events to execute the field level progress monitoring for any given contract to record and report the status of progress being done at the field level with visual images and data. The module can record the data from engineers point of view based on the guidelines provided to the site engineers to undertake survey of the site for progress monitoring at the site location using the app. The progress monitoring has got only few indicators and images to record the progress against each indicator head created at the time of project creation in order to complete the data collection activity which includes clicking images and storing the GEO location from the satellite using the built-in android GPS chip in the user android device. Please follow the steps below to entry and edit data in the progress monitoring module.



4.4.1 Data entry in progress monitoring module

User can open the module and can click on the progress monitoring to start the data collection of the site construction activities after reaching to the location. Please see instructions and steps below to complete the process

Step 1: Click on the "Menu" and then "Progress monitoring" to open the module



Step 2: Select the project from the list

e 🔹	1) () () ()	R .1 21:22					
Menu	NRA						
Progress Monitoring							
Select Project:	Select Project:						
-Select-							
	Load Project						
Physical Progress Head	Target Physical %ge	Action					

Step 3: Select project and click on "Load Project"



	2 1) Q ? E	2.11 2	1:22
Mei	-Select-	•	
Se	EEAP-Civil Work 1	0	
P	EEAP-Civil Work 2	\bigcirc	
	EEAP-School building worl in Sindupal	k 💿	
l	EEAP-new work 4	\bigcirc	
1	EEAP-Plan 1	\bigcirc	
	JICA FUND-Building Construction	\bigcirc	
	EEAP-building of school	\bigcirc	
	EEAP-building of school	\bigcirc	

Step 4: Select indicator head and click on "Open"

E 🕏	1 () () () () () () () () () (R .1 21:22					
Menu	NRA						
Prog	ress Monitoring						
Select Project: EEAP-Civil Work 1							
	Load Project						
Physical Progress Head	Target Physical %ge	Action					
Initiation of goods procurement part 1	11	Open					
First site progress review	1	Open					
Plinth level preparation and completion	5	Open					
Bidding processing	2	Open					
Completion of IFB	3	Open					



Step 5: Enter data in the module questions and click on "select site"

🖿 🗘 Menu	♥ ⊪⊠ 중 : ⊡.,,
P	rogress Monitoring Submission
Finding Geolocati	on
Description	EEAP-Civil Work 1
Date	
Remarks	
Physical Progress %ge	ħ
Site	-Select-
	Add images

Step 6: Select site from the list given for the selected contact.

ŝ	1 (R 21:23
Menu		
Date	08/11/2016	
Remarks	Test	
Physical		
-Select		
		\odot
Thani c	chandi pra v	0
	_	



Step 7: Click on the image box and add images to the record

Remarks	Test
Physical Progress %ge	1
Site	Thani chandi pra v

Step 8: Click on "Save details" to add records in the data base

4	III 🗭 🛜 🖪 📊 🔜 21:24
Menu	S NRA
^	Add Images
Alert Data Sa	ved for id 20160816212300665
	OK
	Save Details
	Sync Data



Step 9: User can see the list and edit option to make and required changes in the record

nu	2 11 © ? ■ 11 ■ 21: 1 () NRA			
\sim	\mathcal{N}	Add Images		
		Save Details		
Description	Date	Save Details Phy.Progress %ge	0pen Record	
Description	Date 2016/08/16	Save Details Phy.Progress %ge	Open Record Open	

User can follow the same method to modify the images also before syncing process. Data can be modified wherever required. User can add all the data as offline application.

4.4.2 Data modifications in progress monitoring module

User can open the module and can click on the "Progress Monitoring" under the main menu to start the module for listing of data for editing. Data edit should be done before sending the record to the main server. Please follow steps below to modify the data in the module.



Step 1: Open module by clicking on the progress monitoring



Step 2: Open module data by clicking on the "Open" from the displayed list for the selected contract and reporting head as shown below

1		21:22	1	- - - - - - - - - - - - - -	R .1 21:22		1] ⊧⊘ 🛜 R	21:24
M		\sim	Menu	NRA		Menu	()	IRA	
	-Select-	•	Pro	gress Monitoring		_			
s	EEAP-Civil Work 1	0	Select Project:			\sim	\sim	Add Images	
F	EEAP-Civil Work 2	\odot	EEAP-Civil Work 1	Load Droject					
k	EEAP-School building work in Sindupal			Target					
l	EEAP-new work 4	\odot	Physical Progress Head	Physical %ge	Action				
-	EEAP-Plan 1		Initiation of goods procurement part 1	11	Open			Save Details	
	JICA FUND-Building Construction	\bigcirc	First site progress review	1	Open	Description	Date	Phy.Progress %ge	Open Record
	EEAP-building of school	\bigcirc	Plinth level preparation and completion	5	Open	EEAP	2016/08/16	1	Open
	EEAP-building of school	\bigcirc	Bidding processing	2	Open			Tue Aug 16 2016	21:24:01
	g er eeneer	\smile	Completion of IFB	3	Open		2	GMT+0545 (N	(PT)

Step 3: Data and images will be loaded in the same form for editing

Remarks Physical Progress %ge Site	Test
Physical Progress %ge Site	1
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	Tue Aug 16 2016 21:24:01 GMT+0545 (MPT)



Step 3: Make required changes in the data and save again

Menu	(①)없 중: ▣,, ➡ 21:24 ⓒNRA
\sim	Add Images.
Alert Data Saved	for id 20160816212300665
	Save Details
	Syno buta

User should complete the editing of the data before syncing process. User should not make changes after sending data to server.

4.5 Quality Assurance (QA) site level

User can click on Oully Assurance in the main menu to start the module. Module provides options and events to execute the field level quality assurance for any given contract to record and report the status of quality assurance being done at the field level with visual images and data. The module can record the data from engineers point of view based on the guidelines provided to the site engineers to undertake survey of the site for quality assurance at the site location using the app. The quality assurance has got only few indicators and images to record the quality level against each indicator head created at the time of project creation in order to complete the data collection activity which includes clicking images and storing the GEO location from the satellite using the built-in android GPS chip in the user android device. Please follow the steps below to entry and edit data in the quality assurance module.



4.5.1 Data entry in quality assurance (QA) module

User can open the module and can click on the quality assurance to start the data collection of the site construction activities after reaching to the location. Please see instructions and steps below to complete the process

Step 1: Click on the "Menu" and then "Quality Assurance" to open the module



Step 2: Select the project from the list

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Menu	🙁 NF	RA
	Quality Ass	urance
Select Project	:	
-Select-		
Load QA Select QA Hea	Activity ad:	
-Select-		
Des	cription	Action

Step 3: Select project and click on "Load Activity"



	2 D C ? I	B .1 💽 2	1:22
Me	-Select-	•	
Se	EEAP-Civil Work 1	0	-
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ł	EEAP-School building wor in Sindupal	^k (
l	EEAP-new work 4		_
1	EEAP-Plan 1		
	JICA FUND-Building Construction	\bigcirc	
	EEAP-building of school		
	EEAP-building of school	\bigcirc	

Step 4: Select QA indicator head and click on "Open"

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	Quality Assurance	
Select Project	:	
EEAP-Civil Wor	k 1	
Load QA / Select QA Hea Foundation lev	Activity vd: el	
	Description	Action
QA Level 1 C	Theck foundation sdfs dj sd fsf	Open
QA Level 2 c	heck sdkjf sdfjsdfs fsffj sjf	Open
QA Level 3 s	f safsd fsafds	Open



Step 5: Enter data in the module questions and click on "select status"

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Menu	NRA	Menu	NRA
	Quality Monitoring	Date	8/12/2016
Foundation 1		Status Sa Description	tisfactory
Date	08/12/2016	-select-	0
Status	-select-	Satisfactory	
Description	uajajaj	Unsatisfacto	ry 💿
Site	-Select-	Worst	O
\sim	Add images		Save Details

Step 6: Select site from the list given for the selected contact.

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	Date	
	Status	Satisfactory
	Description	Тезу
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	-Select-	•
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Step 7: Click on the	image box and	add images to t	he record
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	Satisfactory	
Description	Tesy	
Site	Thani chandi pra v	
N	Add Images	
	Tue Aug 16 2016	
	Tue Aug 16 2016 21:2:5:56 GMT+0545 (NPT)	te

Step 8: Click on "Save details" to add records in the data base

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Data Sav	ed for id20160816212454273
	Save Details
	Sync Data



Step 9: User can see the list and edit option to make and required changes in the record

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		Save Details		
Date	Status	Description	Open Record	
2016- 08-12	Satisfactory	Tesy	Open	
		Tue Aug 16 20 GMT+054	16 21:25:56 5 (NPT)	
		Sync Data		

User can follow the same method to modify the images also before syncing process. Data can be modified wherever required. User can add all the data as offline application.

4.5.2 Data modifications in quality assurance (QA) module

User can open the module and can click on the "Quality Assurance" under the main menu to start the module for listing of data for editing. Data edit should be done before sending the record to the main server. Please follow steps below to modify the data in the module.

Step 1: Open module by clicking on the quality assurance





Step 2: Open QA module data by clicking on the "Open" from the displayed list for the selected contract and reporting head as shown below

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Me	-Select-		Menu	SNRA		Menu	C	NRA	
	EEAP-Civil Work 1			Quality Assurance					
Se	EEAP-Civil Work 2		Select Project: EEAP-Civil Work	1					
h	EEAP-School building work in Sindupal	C Load QA Activity						Save Details	
l	EEAP-new work 4	\odot	Select QA Head	t.		Date	Status	Description	Open Record
-	EEAP-Plan 1					2016- 08-12	Satisfactory	Tesy	Open
I	JICA FUND-Building Construction	\odot		Description	Action				
l	EEAP-building of school	\odot	QA Level 1 Cr QA Level 2 ch	eck sdkjf sdfjsdfs fsffj sjf	Open			Tue Aug 16 20 GMT+054	16 21:25:56 5 (NPT)
	EEAP-building of school	\bigcirc	QA Level 3 sf	sdfsd fsdfds	Open			Sync Data	

Step 3: Data and images will be loaded in the same form for editing

Description	Tesy	
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Step 3: Make required changes in the data and save again

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Save Details	
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➔ User should complete the editing of the data before syncing process. User should not make changes after sending data to server.

4.6 Data syncing to server

Sync Data	
User can click on	in the main menu to start the module. Module provides
options and events to execute for	data syncing process in order to upload all the data on the
main server. The module will unde	ertake all the possible data sinking activities from last know
sync process happened on the o	device. No data will be re synced on the server without
making any changes in the reco	rds. Data syncking should be done only with good and
stable internet connections of eith	her Wi-Fi or 2G/3G connectivity. Please follow the steps
given below.	

Step 1: Open the module by clicking on the "Sync Data" button in the main menu





Step 2: Click on the button "Click to Sync" to start the syncing process

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Home		
Sync	Data With Web	Server
Click To Sync 20	View Sync Status	Full Backup To local
Check to continue the syncing in batch till end record		To
Total Records Goir	ng To Sync:	

Step 2: Monitor the progress in the progress window and give sufficient time to upload all the data including images on the server. Repeat the process multiple times.

User should complete sync process after every data collection process in case net connectivity is available. In case of no connectivity at the field level, user should give more



time during the sync process after reaching back to connectivity area; as all images might take more time to sync. This process is very crucial and should be executed carefully



5.0 Contact information

National Reconstruction Authority: Singh Darbar Kathmandu 44600

5.1 NRA IT Support contacts

Nawaraj Gurung Mobile: +977 9841333398 support@nramis.org

5.2 Online issue/bug reporting

User can report the encountered bugs and can further follow-up the solution provided online. User can visit the site given below and can register themselves to be able to report the bug in the system.

Please visit http://support.nramis.org to register and report any issue related to NRA MIS