

Rajiv Awas Yojana Detailed Project Report KATNI



CSMC Meeting Dated: 13th August 2014

Prepared by

Implementing Agency:

Katni Municipal Corporation _{Katni} **Nodal Agency:**

Govt. of Madhya Pradesh

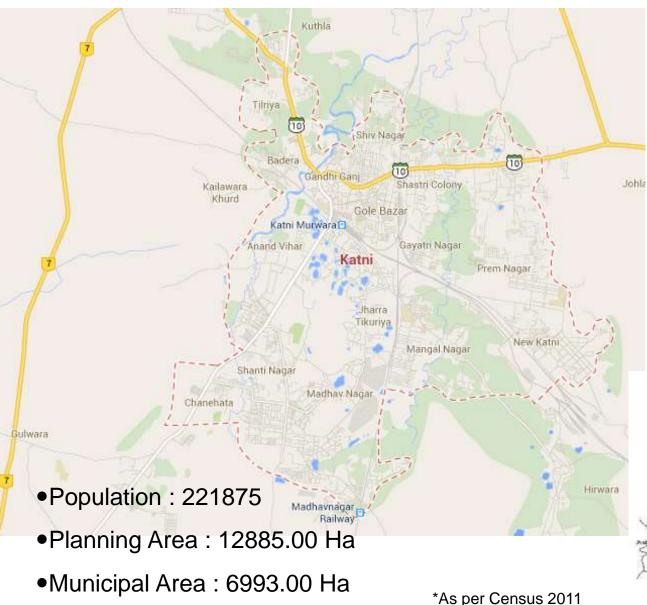
Urban Development and Environment Department.

With Technical Support from



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Katni - City Profile

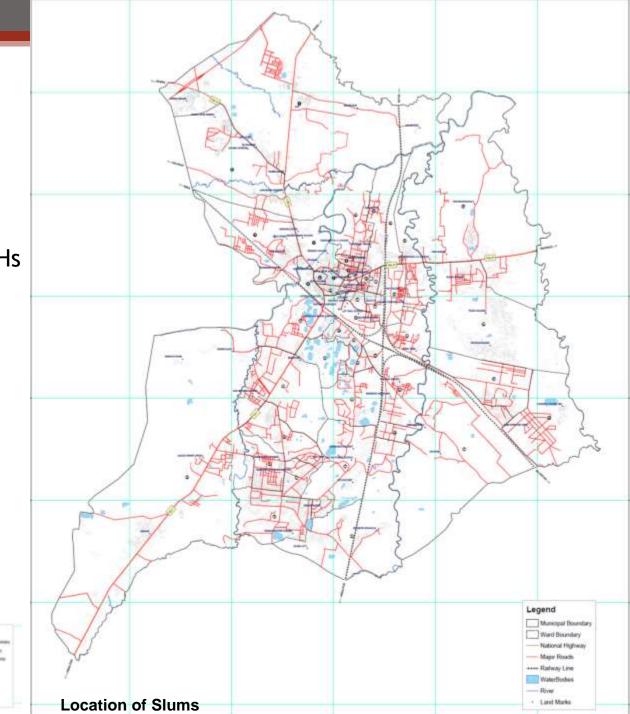


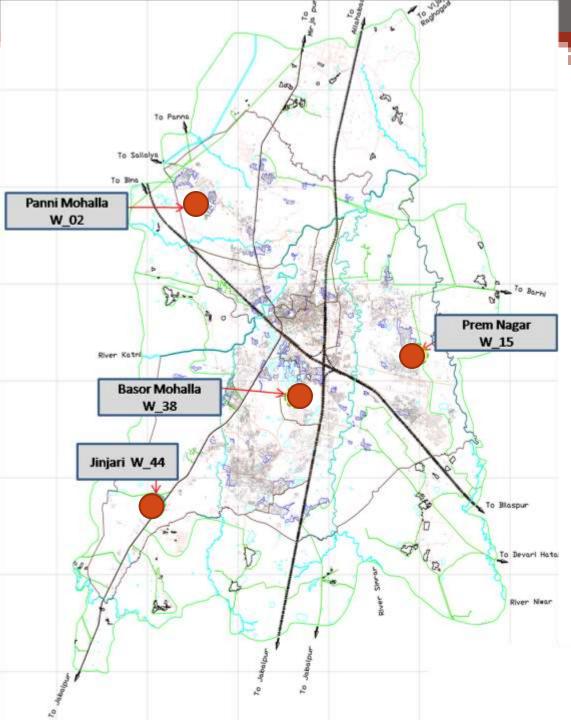
- Katni is a town on the banks of the Katni River in Madhya Pradesh, India.
- It is one of largest railway junctions in India and has the largest railyard
- Katni is connected by road to Varanasi, Nagpur, Bhopal, Raipur, Allahabad, Hyderabad, Bangalore.
- The Longest National Highway of India i.e. NH-7 run through the city. NH-78 start from Katni connecting Shahdol, Ambikapur end to Gumla



Katni City Slum Profile

- Total No. of Slums : 107
- Slum Population : 66363
- Slum Household : 16129 HHs
- No of Wards : 45 Wards





Location of Selected Slums

Details of Land Records

Name	Kh. No.	Area (Ha.)	Gram	
Panni	220, 221,	4.53	Paharua	
Mohalla	223/2, 211	4.33	ranalua	
Basor	49/2 to	1.44	Tikariya	
Mohalla	49/10	1.44	пкапуа	
Prem	1548/4 to	3.65	Khirhani	
Nagar	1548/6	2.05	niiiiiaiii	
Jinjari	1382/1	2.13	Jinjari	

Land of all the Proposed Sites belongs to GoMP.

Transfer of Land to ULB is Under Process.

Total City population as per Census 2011: 221883 Total no. of slums 107

Details of Selected Slum for DPR

SN	Name of Slum (Slum ID)	HHs	Population	Housing Condition	Infrastructure Condition	Socio- Economic Condition	Land Ownership	Proposed Strategy
1	Panni Mohalla (014)	164	781	Very Poor	Very Poor	Poor	GoMP	In-Situ Redevelop ment
2	Basor Mohalla (089)	114	490	Very Poor	Very Poor	Poor	GoMP	In-Situ Redevelop ment
3	Prem Nagar (039)	262	1049	Very Poor	Very Poor	Very Poor	GoMP	In-Situ Redevelop ment
4	Jinjari (101)	173	722	Poor	Very Poor	Poor	GoMP	Relocation
	Total	713	3042					

Why These Three Slums: All Three Slums were having Poor Housing and Infrastructure Condition and were located on Government Land. Also they were High Priority Slum in 3X3 matrix Analysis

Existing Condition - Panni Mohalla (W_02)







Housing & Infrastructure Condition at Panni Mohalla







Existing Condition - Basor Mohalla (W_38)



Housing & Infrastructure Condition at Basor Mohalla W_38



Existing Condition - Prem Nagar (W_15)



Housing & Infrastructure Condition at Prem Nagar



Existing Condition - Jinjari Slum (W_44)



Housing & Infrastructure Condition at Jinjari Slum



Micro-planning Process Photographs







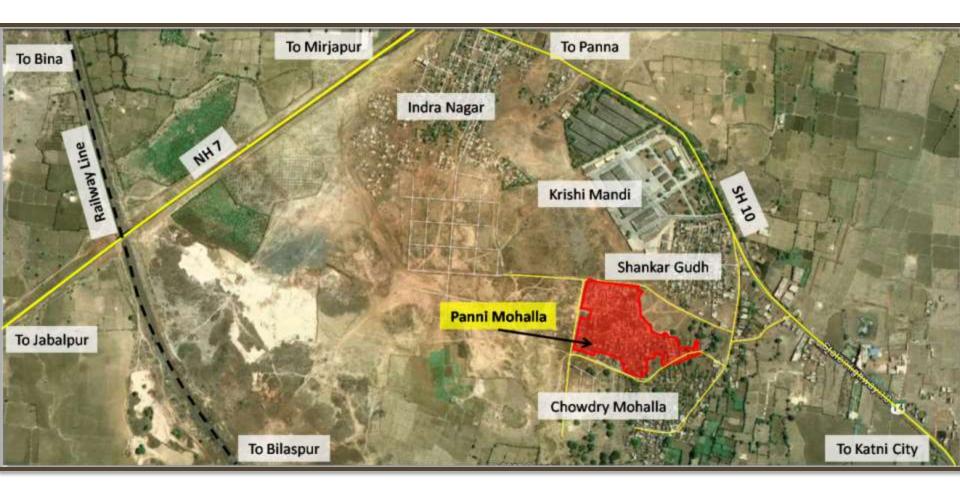
Details of Proposal in Slums

Panni Mohalla (W_02)

Satellite Image- Panni Mohalla

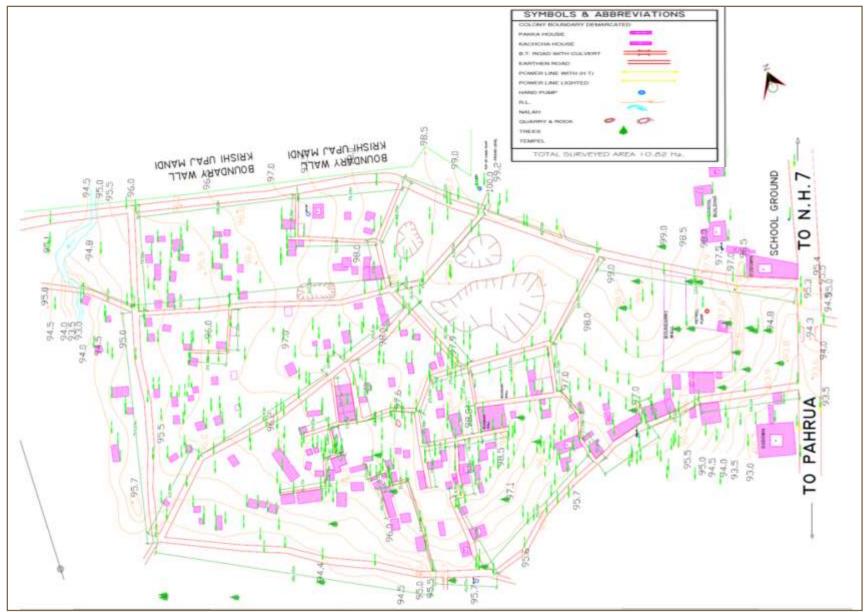


Location- Panni Mohalla (W_02)



Panni Mohalla is located about 300 meters off State Highway-10 in the south side.
Krishi Upaj Mandi is the nearest landmark.

Survey Map- Panni Mohalla (W_02)



Existing Condition - Panni Mohalla (W_02)







Housing & Infrastructure Condition at Panni Mohalla







Basic Information - Panni Mohalla (002)

1	Slum Code	02
2	Ward number	Ward No.02
3	Age of slum	40-45 years
4	Status of the slum	Notified
5	H.H. in the slum	164 (Pucca 14, Semi-Pucca 14, Kaccha 136)
6	Total Population in the slum	781
7	Area of the slum	4.5 Ha
8	Approach Road	Cement concrete Road
9	Inner Road	Kaccha

Proposal Details- Panni Mohalla (W_02)

- Based on The Total Station Survey & Micro Planning the site was analyzed for existing condition & infrastructure facilities and accordingly the design was developed.
- Panni Mohalla Total No of Households 164 Households and 36 adults requiring additional Dwelling Units (Total 200 Dwelling Units) have been considered in the proposal.
- Total Proposed Dwelling Units in Panni Mohalla is 200 Dus, based on the abovementioned requirements of 200.

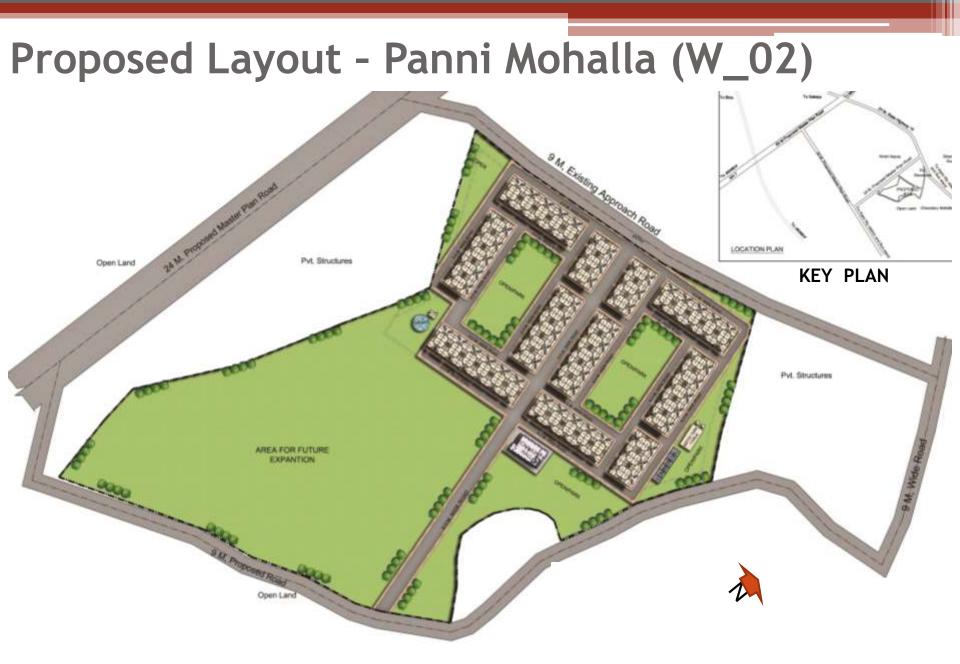


Slum Name (ID)	No of HHs	No of Pucca Houses Retained	Popul ation	No Adults	Housing Required for add adults/ married	Total Houses Required	Proposed No of Houses	Addition al Houses
Panni Mohalla (014)	164	-	781	36	36	200	200	0

Detail Proposal - Panni Mohalla (W_02)

S.N	Factors considered	Panni Mohalla W_02
1	Net Planning Area (Sq.M)	25163.26
2	Permissible Ground Coverage (33%)(Sq.M)	8303.88
3	Proposed Ground Coverage (Sq.M)	5962.26 (23.69%)
4	Area on Ground Floor (Sq.M)	5698.00
5	Proposed Built up Area on First Floor (Sq.M)	-
6	Proposed Built up Area for Community Hall- (Sq.M)	169.50
7	Proposed Built up Area for Commercial- GF (Sq.M)	94.76
8	Total built up Area on all floors (Sq.M)	5962.26
9	Total No .of Dwelling Units	200
10	Density (Units/Ha)	79 DU/Ha
11	FAR Consumed	0.24

The Net Planning area of Panni Mohalla is **25163.26 Sq M** of which **5962.26 Sq M** that is **23.69** % area was proposed for Ground Coverage .



LAYOUT PLAN

Bird's Eye View - Layout

Panni Mohalla



Dwelling Unit Design

TYPE A

 Proposed no. of dwelling units are 200 which are of A type cluster and having Ground Storied Structure.



Dwelling Unit	A Type (Sq.M)
Carpet Area	26.61
Built-up Area	28.49

- Dwelling Unit Design
 - The size of dwelling units of Type A is Carpet Area 26.61 Sqm, and built up area of 28.49 Sqm
- The dwelling units will be provided with
 - Two habitable rooms which include one Living Room and one bed room.
 - Cooking Alcove
 - Balcony
 - Individual toilet will opening in the Hall.

Typical DU: Type A

Perspective View Type A Housing

TYPE A HOUSING



Details of Proposal in Slums

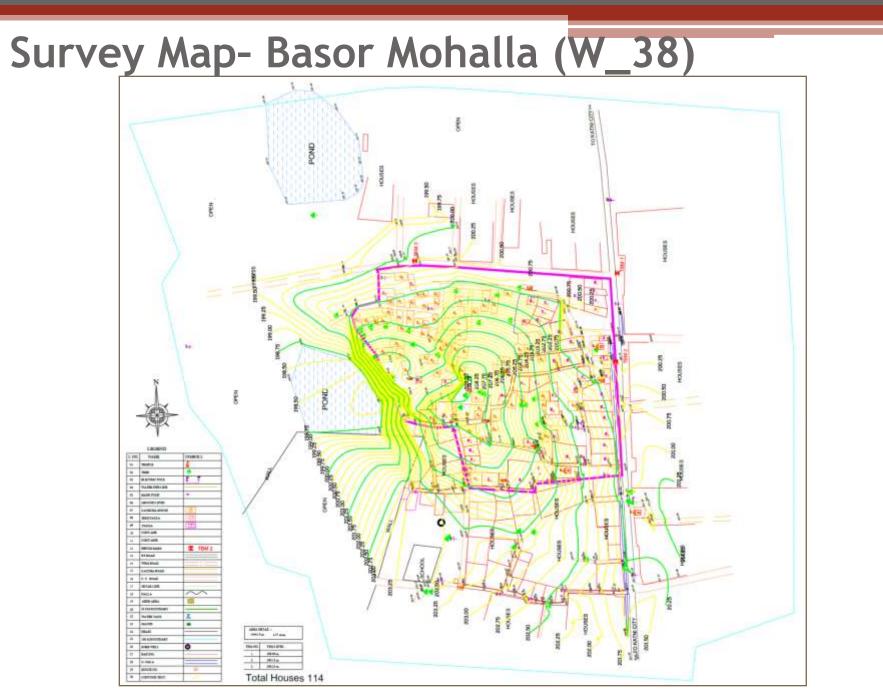
Basor Mohalla (W_38)

Satellite Image- Basor Mohalia (W_38)



Location- Basor Mohalla (W_38)





Existing Condition - Basor Mohalla (W_38)



Housing & Infrastructure Condition at Basor Mohalla W_38



Basic Information - Basor Mohalla (W_38)

1	Slum Code	089
2	Ward number	Ward No. 38
3	Age of slum	40-45 years
4	Status of the slum	Notified
5	H.H. in the slum	114 (Pucca 45, Semi-Pucca 4, Kaccha 65)
6	Total Population in the slum	490
7	Area of the slum	1.36 Ha
8	Approach Road	Cement concrete Road
9	Inner Road	Kaccha

Detail Proposal - Basor Mohalla

- Based on The Total Station Survey & Micro Planning the site was analyzed for existing condition & infrastructure facilities and accordingly the design was developed.
- Basor Mohalla Total No of Households 114 Households and 8 adults requiring additional Dwelling Units (Total 122 Dwelling Units) have been considered in the proposal.



Total Proposed Dwelling Units in Basor Mohalla is 122 Dus, based on the abovementioned requirements of 122.

Slum Name(ID)	No of HHs	No of Pucca Houses Retained	Popul ation	Housing Required for add adults/ married	Total Houses Required	Propose d No of Houses
Basor Mohalla (089)	114	-	490	8	122	122

Details of Redevelopment Proposal

S.N	Factors considered	Basor Mohalla (089)
1	Total land Area (Sq.M)	14441.93
2	Area Under River Buffer (Sq.M)	0.00
3	Area under Railway Buffer	0.00
4	Net Planning Area (Sq.M)	13565.76
5	Permissible Ground Coverage (33%)(Sq.M)	4476.71
6	Proposed Ground Coverage (Sq.M)	3714.88
7	Area on Ground Floor (Sq.M)	3481.88
11	Proposed Built up Area for Community Hall- GF (Sq.M)	169.5
12	Proposed No. of Convenient Shops	4
13	Total built up Area on all floors (Sq.M)	3714.88
14	Total No.of Units	122
15	Density (units/ha)	90 DU/Ha

The Net Planning area of Basor Mohalla is 13565.76 Sq M of which 4476.70 Sq M that is 33 % area was proposed for ground coverage .

Proposed Layout- Basor Mohalla



Dwelling Unit Design

TYPE A

 Proposed no. of dwelling units are 122 which are of A type cluster and having Ground Storied Structure.



Dwelling Unit	A Type (Sq.M)
Carpet Area	26.61
Built-up Area	28.49

- Dwelling Unit Design
 - The size of dwelling units of Type A is Carpet Area 26.61 Sqm, and built up area of 28.49 Sqm
- The dwelling units will be provided with
 - Two habitable rooms which include one Living Room and one bed room.
 - Cooking Alcove
 - Balcony
 - Individual toilet will opening in the Hall.

Typical DU: Type A

Perspective View Type A Housing

TYPE A HOUSING



Details of Proposal in Slums

Prem Nagar (W_39)

Satellite Image- Prem Nagar (W_39)



Location- Prem Nagar (W_39)



Survey Map- Prem Nagar (W_39)



Existing Condition - Prem Nagar (W_15)



Housing & Infrastructure Condition at Prem Nagar



Basic Information - Prem Nagar Slum

1	Slum Code	039
2	Ward number	Ward No. 15
3	Age of slum	40-45 years
4	Status of the slum	Notified
5	H.H. in the slum	262 (Pucca 130, Semi-Pucca 22, Kaccha 110)
6	Total Population in the slum	1049
7	Area of the slum	3.65 Ha
8	Approach Road	Cement concrete Road
9	Inner Road	Kaccha

Demographic/ Socio-Economic Profile

Domography	Information					
Demography						
Additional Adult Population	42					
Net Residential Density(HH/Ha)			71.78 HHs per	Ha		
Household Size			4.00			
Number of Literates		48.32 %	% of population	are literate	s	
Socio-Economic	Information					
	General		SC/ST	OBC		
Caste (HH)		73	122	66		
Major Livelihood			Daily Labore	rs		
Livelihood	Salaried	Self employed	Agriculture	Casual Labor	Others	
	0	0	9	161	92	
0	0-499	499-999	1000-1999	2000- 2999	≻3000	
	18	24	26	36	177	

Housing/ Tenure Status and Community Facilities

Housing	Information								
Built form	Kutcha			Semi Pucca		Pucca			
Duill Iorm		130				22		110	
Housing Condition			Ve	ry Po	or Housing				
Lease Title and Patta	Patta	Public Land Encroached		Pos	oss. Certificate/ acc. Right		/ Private land encroached		Rented
	124		1		105		2	4	9
Infrastructure				Info	ormation				
Water Cupply	HC		PSP	•	TW/HP	TW/HP/B		W	Others
Water Supply	119	17 32		86		0			
Type of Drains	% of Kutcha				% of Pucca				
Type of Drains	NA			NA					
Solid Waste Management	N	o Arrang	gement for	Gar	bage Dispos	sal and	d Collec	tion	
Street Light (Y/No)			Pai	rtiall	y Available				
Education facilities	Anganwadi is not present, Primary school & High Secondary School are present nearby								
Health Facilities	Primary health center is present, Govt Hospital is present within 0.5 km and Pvt is present within 2 km.								
Community Hall					NA				

Detail Proposal - Prem Nagar

- Based on The Total Station Survey & Micro Planning the site was analyzed for existing condition & infrastructure facilities and accordingly the design was developed.
- Prem Nagar- Total No of Households 262 Households and 42 adults requiring additional Dwelling Units (Total 304 Dwelling Units) have been considered in the proposal.



Total Proposed Dwelling Units in Prem Nagar is 304
 Dus, based on the abovementioned requirements of 304.

	um e(ID)	No of HHs	No of Pucca Houses Retained	Popul ation	Housing Required for add adults/ married	Total Houses Required	Propose d No of Houses
Prem (039)	Nagar	262	-	1082	42	304	304

Details of Redevelopment Proposal

S.N	Factors considered	Prem Nagar (039)
1	Total land Area (Sq.M)	36533.94
2	Area Under River Buffer (Sq.M)	0.00
3	Area under Railway Buffer	0.00
4	Net Planning Area (Sq.M)	33362.05
5	Permissible Ground Coverage (33%)(Sq.M)	11009.48
6	Proposed Ground Coverage (Sq.M)	9813.14
7	Area on Ground Floor (Sq.M)	8676.16
11	Proposed Built up Area for Community Hall- GF (Sq.M)	169.5
12	Proposed No. of Convenient Shops	967.48
13	Total built up Area on all floors (Sq.M)	9813.14
14	Total No.of Units	304
15	Density (units/ha)	91 DU/Ha

The Net Planning area of Prem Nagar is 33362.05 Sq M of which 11009.48 Sq M that is 33 % area was proposed for ground coverage .

Proposed Layout- Prem Nagar



Dwelling Unit Design

TYPE A

Proposed no. of dwelling units are 304
 which are of A type cluster and having
 Ground Storied Structure.



Dwelling UnitA Type (Sq.M)Carpet Area26.61Built-up Area28.49

- Dwelling Unit Design
 - The size of dwelling units of Type A is Carpet Area 26.61 Sqm, and built up area of 28.49 Sqm
- The dwelling units will be provided with
 - Two habitable rooms which include one Living Room and one bed room.
 - Cooking Alcove
 - Balcony
 - Individual toilet will opening in the Hall.

Typical DU: Type A

Perspective View Type A Housing

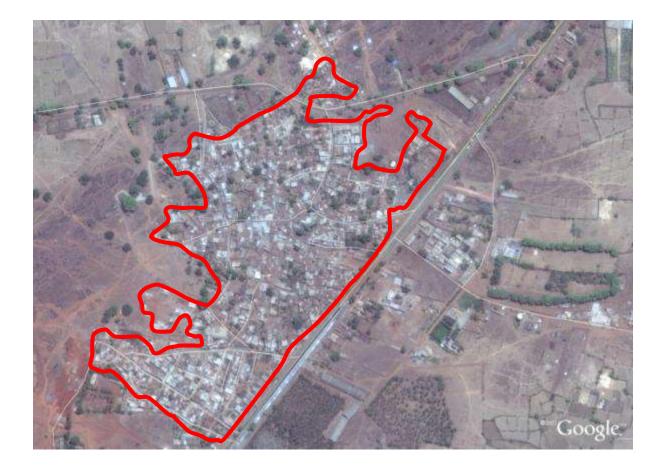
TYPE A HOUSING



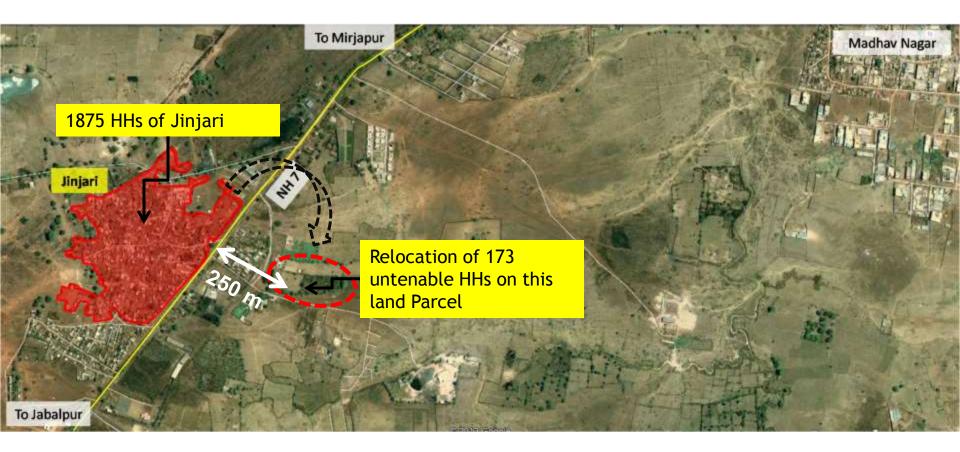
Details of Proposal in Slums

Jinjari (W_44)

Location - Jinjari (W_44)

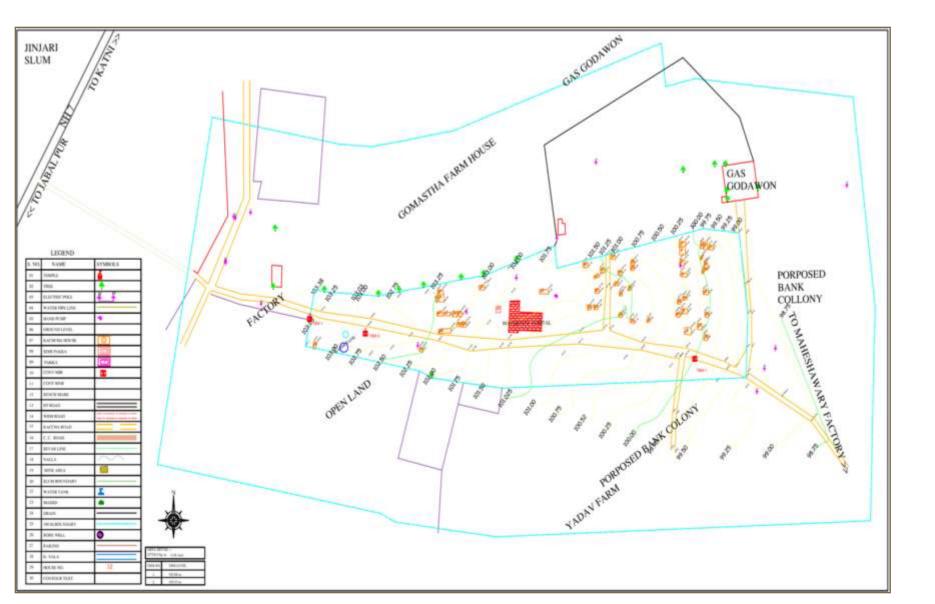


Location- Jinjari



- Jinjari settlement has direct access from the NH-7, which connects Mirjapur and Jabalpur.
- Jinjari is around 6 Km away from the main city and 5.7 km away from the Murwara railway station in the South West direction

Survey Map- Jinjari (W_44)



Existing Condition - Jinjari Slum (W_44)



Housing & Infrastructure Condition at Jinjari Slum



Basic Information - Jinjari

1	Slum Code	101
2	Ward number	Ward No. 44
3	Age of slum	40-45 years
4	Status of the slum	Notified
5	H.H. in the slum	173 (Pucca 79, Semi-Pucca 25, Kaccha 69)
6	Total Population in the slum	722
7	Area of the slum	0.3 Ha
8	Approach Road	Cement concrete Road
9	Inner Road	80% Kaccha

Detail Proposal - Jinjari Relocation Site

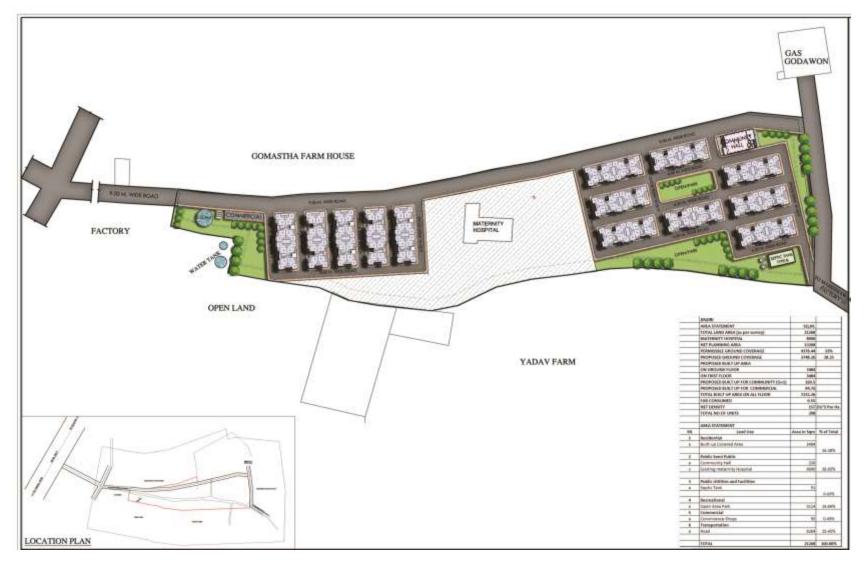
The Slum is part of Jinjari Abadi Area and is proposed to be relocated due to the cleared site is not enough to rehabilitate the Slum Households. The Slum site cleared from after relocation will be used for development of Community Open Space for Jinjari Village.



- The proposed Relocation site is on Government Land across the Abutting Road NH-7
- Jinjari Total No of Households 173 Households and 35 adults requiring additional Dwelling Units (Total 208 Dwelling Units) have been considered in the proposal.
- □ Total Proposed Dwelling Units in Jinjari Relocation Site is 208 Dus, based on the abovementioned requirements of 208.

Slum Name(ID)	No of HHs	No of Pucca Houses Retained	Popul ation	Housing Required for add adults/ married	Total Houses Required	Propose d No of Houses
Jinjari (101)	173	-	722	35	208	208

Proposed Layout- Jinjari



Bird's Eye View - Layout

Jinjari Relocation Site



Cluster Design

TYPE B

- Proposed no. of dwelling units are
 208 which are of B type cluster and having G+1.
- 4 dwelling units will share a common staircase and a lobby 2.2 m wide.
 Each floor will have 8 Dwelling units.



Typical DU: Type B

DU Design -

- Dwelling Unit Design
 - Total 208 DUs are proposed.
 - The size of dwelling units of Type B is carpet area 26.21 sqm, and built up area 30.76 sqm
- The dwelling units will be provided with
 - Two habitable rooms which include one Living Room and one bed room.
 - Cooking Alcove
 - Balcony
 - Individual toilet will opening in the Hall.



Typical Cluster Plan of Type B DUs

Dwelling Unit	B Type (Sq.M)
Carpet Area	26.21
Built-up Area	30.76

Typical Perspective view - Type B Housing

TYPE B HOUSING



Proposal Summary

Proposal Summary

S.N	Slum Name(ID)		Total Proposed Dwelling Units	Cluster Type	Block Layout
1	Panni Mohalla W_02 (014)	200	200	А	Ground Storied Structure
2	Basor Mohalla W_38 (089)	122	122	А	Ground Storied Structure
3	Prem Nagar W_15 (039)	304	304	А	Ground Storied Structure
4	Jinjari W_44 (101) Relocation	208	208	В	G+1 Structure
Total		834	626	Α	Ground Storied Structure
			208	В	G+1 Structure

Summary of Cost for DPR

Panni Mohalla (200 DUs), Basor Mohalla (122 DUs), Prem Nagar (304 DUs) and Jinjari (208 DUs)

S N	RAY Project Components	Total Project Cost in Rs La	Center Share in Rs La	State Share in Rs La
Α	Housing			
1	Construction of 626 DUs @ Rs.370347.46/- per DU (Ground Floor) house with carpet area of 26.61 sq.m.	2318.38	1408.50	909.88
2	Construction of 208 DUs @ Rs. 367783.30/- per DU (G+1) house with carpet area of 26.21 sq.m.	764.99	468.00	296.99
	Sub Total A	3083.36	1876.50	1206.86
B.1	Utility Infrastructure			
1	Water Supply	159.30	76.78	82.52
2	Sewerage	120.51	58.08	62.42
3	Storm Water Drain	42.17	20.33	21.85
4	Roads, Culvert and Pavements	444.78	214.38	230.40
5	Electrification	172.77	83.27	89.50
6	Solid Waste Management	2.29	1.11	1.19
7	Rain Water Harvesting	4.80	2.31	2.49
8	Transit Housing	102.60	49.45	53.15
	Sub Total B.1	1049.22	505.71	543.51
B.2	Social Infrastructure			
1	Community Hall	74.52	35.92	38.60
2	Informal Sector Market	37.34	18.00	19.34
3	Parks	17.63	8.50	9.13
4	Boundary Wall	119.04	57.37	61.66
	Sub Total B.2	248.53	119.79	128.74
	Sub Total B	1297.75	625.50	672.25
	Sub Total (A+B)	4381.11	2502.00	1879.11

Summary of Cost for DPR

Panni Mohalla (200 DUs), Basor Mohalla (122 DUs), Prem Nagar (304 DUs) and Jinjari (208 DUs)

S N	RAY Project Components	Total	Center	State
		Project Cost	Share in Rs	Share in Rs
		in Rs La	La	La
	Sub Total (A+B)	4381.11	2502.00	1879.11
С	O&M (4% of A+B)	175.24	131.43	43.81
	Sub Total (A+B+C)	4556.36	2633.43	1922.92
D	Capacity Building, Administrative & Other Expenses (A&OE) and IEC activities			
1	5% of (A+B+C) as Cost of DPR preparation, PMC and SQC, Capacity Building Community Mobilization Social Audit and TPIMA	219.06	0.00	219.06
	Total Project Cost (A+B+C+D)	4775.41	2633.43	2141.98

* Total Appraised Cost is Rs. 4775.41 Lakhs

Summary of Cost for DPR

Panni Mohalla (200 DUs), Basor Mohalla (122 DUs), Prem Nagar (304 DUs) and Jinjari (208 DUs)

S N	Details of State Share	Amount In Rs Lakhs
1	State Grant	763.27
2	ULB Share	547.15
3	Beneficiaries Share	831.56
4	Others	0.00
	Total State Share	2141.98

S N	Per DU Finance (Type A)	Amount In Rs Lakhs
1	Central Grant	2.25
2	State Grant	0.45
3	ULB Share	0.00
4	Beneficiaries Share	1.00
	Total Cost of DU - TYPE A	3.70

SN	Per DU Finance (Type B)	Amount In Rs Lakhs
1	Central Grant	2.25
2	State Grant	0.45
3	ULB Share	0.00
4	Beneficiaries Share	0.98
	Total Cost of DU - TYPE B	3.68

Thank You