NEW BARRACKPORE MUNICIPALITY

Detailed Project Report for Construction of 797 EWS Houses under BLC mode of Pradhan Mantri Awas Yojana (PMAY)-HFA (U) for New Barrackpore Municipality

2016-17

Submitted by

New Barrackpore Municipality

Dist: 24PGS (N), West Bengal

October, 2016

CONTENTS

Abbreviations

A&OE	Administrative and Other Expenses	LIG	Low Income Group
AHP	Affordable Housing in Partnership	MD	Mission Directorate
AIP	Annual Implementation Plan	MoA	Memorandum of Agreement
BMTPC	Building Materials & Technology Promotion Council	MoHUPA	Ministry of Housing and Urban Poverty Alleviation
CDP	City Development Plan	MoU	Memorandum of Understanding
CLS	Credit linked subsidy	NA	Non Agricultural
CNA	Central Nodal Agencies	NBC	National Building Code
CPHEEO	Central Public Health and Environmental Engineering Organisation	NHB	National Housing Bank
CSMC	Central Sanctioning and Monitoring Committee	NOC	No Objection Certificate
DIPP	Department of Industrial Policy and Promotion	NPV	Net Present Value
DPR	Detailed Project Report	PLI	Primary Lending Institution
EMI	Equated Monthly Installment	RWA	Residents' Welfare Association
EWS	Economically Weaker Section	SECC	Socio Economic and Caste Census
FAR	Floor Area Ratio	SFCPoA	Slum Free City Plan of Action
FSI	Floor Space Index	SLAC	State Level Appraisal Committee
HFA	Housing for All	SLNA	State Level Nodal Agency
HFAPoA	Housing for All Plan of Action	SLSMC	State Level Sanction and Monitoring Committee
IEC	Information Education & Communication	TDR	Transfer of Development Rights
IFD	Integrated Finance Division	TPQMA	Third Party Quality Monitoring Agency
IIT	Indian Institute of Technology	ULB	Urban Local Boday
IS	Indian Standard	UT	Union Territory

PREFACE

Pradhan Mantri Awas Yojana (PMAY) aims at Providing Housing for All (HFA) by 2022 when the Nation Complete 75 years of its independence.

The urban homeless persons of the cities contribute to the economy of the Nation as cheap labour in the informal sector; yet they live with no shelter or social security. The urban homeless people are facing many challenges like no access to elementary Public Services such as health, education, food, water and sanitation. Pradhan Mantri Awas Yojona (PMAY) aims at providing a pucca house to every family with water connection, toilet facilities, 24 X 7 electricity supply etc.

The Mission seeks to address the housing requirement of urban poor including slum dwellers through "In Situ" Slum Redevelopment, Affordable Housing through credit linked subsidy, and Affordable Housing in partnership and subsidy for beneficiary led individual house. Under the mission, beneficiaries can take advantage under one component only.

Total beneficiaries of the scheme are 797 nos. from 35 nos. slum and 9 nos. of Non Slum projected for the year 2016-0-17.

Total cost of the project for 2016-17 is **Rs. 3226.25 lakhs** as per relevant department & P.W.D. schedule of rates.

Introductory Note by Chairperson

New Barrackpore is a very small ULB situated in the vicinity of Kolkata. It is at a distance of about 17 km from proper Kolkata. Its total area is 6.89 sq.km. Its eastern boundary is marked by a canal, named as Fatesha. The northern side is demarcated by Sodepur Road and aforesaid Noai canal. North DumDum Municipality lies on its south. Madhyamgram Municipality is situated at the north-east part of the ULB. New Barrackpore Municipality lies in Ghola tehsil of North 24 Paraganas district situated in 22.76 degree North latitude and 88.37 degree East longitude. It is 2 Kms. from tehsil headquarters and 4 k.m. from district headquarters (Barasat) near Noai Canal. Linkages of rail have added to the importance of this ULB. Railway lines connecting Bongaon, Hasnabad with Sealdah, Dalhousie, Canning and Naihati have passed through the heart of this Municipality where there is a full-fledged busy railway station. A PWD Road connected with innumerable Municipal Roads and lanes is linked with the Sodepur Road and Jessore Road. DumDum Airport (now Netaji Subhas Chandra Bose International Airport) is at a stone's throw from its southern boundary.

On the outset I would like to take this privilege to let know you that New Barrackpore Municipality has finished the preparation of ***Housing for All Plan of Action for the time frame 2015-16 to 2021-22****. The municipality has conducted introductory workshop of the Housing for ALL among the members of Board of councillors. Thereafter the core team has been formed for the preparation of the Plan. The Core team has organized several workshops, Focus Group Discussions, Ward Level Consultations among the people across the sections of the citizens and the staff members of the municipality. Citizen, elected councillors and other stakeholders have had interactive sessions and opined about their need, demand, aspirations and the concerned personnel duly recorded those views. The* ***Housing for All Plan of Action*** *is the outcome of the series of Demand survey workshops, FGDs, Consultations and meetings. It has been compiled by the technical persons of New Barrackpore Municipality which have eventually become the* ***Housing for All Plan of Action*** *of New Barrackpore Municipality. The respected citizens expressed their valuable opinions and views. Again those views have been duly incorporated in the* ***Housing for All Plan of Action (HFAPoA).***

The people of the municipality, the elected councillors, the staff members, the surveyors, the technical persons have extended their fullest cooperation in preparing the whole process of ***Housing for All Plan of Action****. I must take the opportunity to acknowledge their endeavours and extend gratitude to the authorities of SUDA and MA Department of Govt. Of W.B. for extending their cooperation.*

I wish that this ***Housing for All Plan of Action*** *would enable the ULB to undertake comprehensive, sustainable development of its jurisdiction with the growing demand of 21st century's modernized society.*

Chairperson
New Barrackpore Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

A. Planning Core Team:

1. Mrs. Tripti Majumder, Chairperson, New Barrackpore Municipality
2. Mr. Mihir Dey, Vice Chairman , New Barrackpore Municipality
3. Mr. Prabir Saha, President, SWM Standing Committee
4. Mr. Arijit Khan, S.A.E, HFA-Nodal Officer, New Barrackpore Municipality
5. Mr. Tridib Kumar Kar, A.E, New Barrackpore Municipality
6. Mr. Mohua Banerjee, Urban Planner, New Barrackpore Municipality
7. Mr. Sukalpa Tarafder, S.A.E, New Barrackpore Municipality
8. Mr. Biplab Biswas, S.A.E, New Barrackpore Municipality
9. Mr. Debashis Mukherjee, Staff, New Barrackpore Municipality

NEW BARRACKPORE MUNICIPALITY

*Extract of the Proceedings of the Monthly meeting of the Board of Councillors, New Barrackpore Municipality held on **29-9-2016 at 4-00 P.M.** at Municipal VIP Conference Room.*

MEMBERS PRESENT

1. SMT. TRIPTI MAJUMDER, CHAIRPERSON
2. SHRI MIHIR DEY, VICE-CHAIRMAN
3. SHRI JAYGOPAL BHATTACHARYA,COUNCILLOR
4. SMT. LIPIKA DAS, COUNCILLOR
5. SMT. ARCHANA SEN, COUNCILLOR
6. SMT. SWAPNA BISWAS, COUNCILLOR
7. SMT. GOURI SAHA, COUNCILLOR
8. SHRI ABHIJIT BISWAS, COUNCILLOR
9. SMT. KUNTALA SAHA, COUNCILLOR
10. SRI ASHOK KUMAR MITRA, COUNCILLOR
11. DR. P.K. ADHIKARI, COUNCILLOR
12. SRI NIKHILMALO, COUNCILLOR
13. SMT. NIRMIKA BAGCHI, COUNCILLOR
14. SRI GURUPADA SARKAR
15. SRI PRABIR SAHA, COUNCILLOR
16. SMT. CHANDANA CHAKROBARTY, COUNCILLOR
17. SMT. PURNIMA ROY, COUNCILLOR

Smt. Tripti Majumder, Chairperson presides over the meeting.

AGENDA NO. 5 MISCELLANEOUS

*viii) For the year 2016-17, from survey list for 'House for All' scheme, 624 nos. of houses from different Wards have been approved and DPR is being prepared for 173 nos. of cases for future plan. **Total (624 + 173)= 797** nos. of cases have been considered and approved in this meeting of BOC unanimously.*

Sd/- Tripti Majumder
Chairperson
New Barrackpore Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Attested

Chairperson
New Barrackpore Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

mbextractresolution

Annexure-7C

(Para 14.5 of the Guidelines)

Format for Project under Beneficiary led Construction or Enhancement

1	Name of the State	:	WEST BENGAL
2	Name of the City	:	NEW BARRACKPORE
3	Project Name	:	HOUSING FOR ALL(U)
4	Project Code	:	
5	State Level Nodal Agency	:	SUDA
6	Implementing Agency / ULB'	:	NEW BARRACKPORE MUNICIPALITY
7	Date of approval by State Level sanctioning and Monitoring Committee (SLSMC)	:	

8	No. of locations covered in project No.of Slum Covered = 35 No. of Non Sium Area Covered = 9	:	Name of Location NEW BARRACKPORE MUNICIPALITY	No. of benificiary Slum= 709 Non Slum= 88	Whether Slum (Y/n) Yes	if yes, 1 if notified, 2 if recognised and 3 if identified (1) Notified	if slum, whether it gets completely rehabilitated Y/n Not Applicable

9	Project Cost	:	3226.26

10	No of Beneficiaries covered in the project	:	Gen	SC	ST	OBC	Total	Minority	Person with Disability
			512	110	12	163	797		Nil

11	Whether beneficiary have been selected as PMAY guideline? (Yes/No)	:	Yes

12	No. of houses constructed / acquired Please specify ownership (any of these)	:	Joint( ) 557	Female ( ) 240	Male ( )	Transgender (0)			
13	No. of beneficiaries covered in project	:	Male ( ) 390	Female( ) 407	Transgender (0)				

14	Whether it has been ensured that selected beneficiaries have rightful ownership of the land	:	Yes
15	Whether building plan for all houses have bee approved	:	Yes
16	i) GoI grant required (Rs. 1.5 lakh per eligible benificiary) (Rs in Lakhs)	:	1195.50
	ii) State grant, if any (Rs. In lakhs)	:	1684.86
	iii)ULB grant, if any (Rs. In Lakh)	:	146.65
	iv) Benificiary Share (Rs.in lakhs)	:	199.25
	Total (Rs.in lakh)	:	3226.26
17	Whether technical specification/ design for housing have been ensured as per Indian Standards/NBC/ State noms.	:	Yes
18	Whether it has been ensured that balance cost of construction is tied up with State grant, ULB grant & beneficiary share?	:	Yes
19	Whether trunk and line infrastructure is existing or being provisioned i) Water Supplu (Yes/ No)	:	Yes
	(ii) Sewerage (Yes / No)	:	No
	iii) Road (Yes / No)	:	Yes
	iv) Strom Water Drain (yes/No)	:	Yes
	v) External Electrification (Yes/No)	:	Yes
	vi) Solid Waste Management (Yes/No)	:	Yes
	vii) Any other, specify	:	No
	viii) In case, any infurture has not been proposed, reasons thereof.	:	Sewerage Scheme has not been proposed due to desired level of supply of water as CPHEEO norms has not been achieved.
20	Whether disaster (earthquake, flood, cyclone landslide etc.) resistance features have been adopted in concept, design and implementation?	:	Yes

21	Whether Demand Survey completed for entire city?	:	Yes
22	Whether city-wide integrated project have been formulated? If not, reasons therof.	:	Yes
23	Whether validation with SECC data for housing conditions conducted?	:	Yes
24	Whether Direct Benefit Transfer (DBT) of fund to individual bank account of benificiary ensured in the project?	:	Yes
25	Whether there is provision in DPR for tracking/ monitoring the progress of indivitual houses through geo-tagged photographs?	:	Yes
26	Whether any innovation/cost effective/Green technology adopted in the project?	:	Conventional technology adopted
27	Comments of SLAC after techno economic appraisal of DPR.	:	
28	Brief of project , including any other information ULB/State would like to furnish.	:	

*State will give code number to each project sanctioned under HFA as 'ABCDEFGHIJKLM'
(Where 'AB' is State Code as per census 'CDEFGH' is city code as per census 'IJ' is running number of project of the city and 'K' is project component code i.e. 'k' will be 1-for in-situ- slum redevelopment, 2 –for Relocation 3- for AHP and 4-for Beneficiary led-Construction or enhancement) ,' L' will be N- for New, R- for Revised, 'M' will be running number which will be O for new and 1 and so on for revision.

It is hereby confirmed that State /UT/ and ULB have checked all the beneficiaries as per guideline of HFA. It is also submitted that no beneficiary has been selected for more than one benefit under the Mission including Credit Linked Subsidy Scheme (CLSS) component of the Mission.

Signature
Chairman/Chairperson/Mayor/Commissioner

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Signature
(State Level Nodal Officer)

Signature
Chief Engineer
M.E Dte

Chief Engineer
M.E. Directorate
Deptt. of Municipal Affairs
Govt. of West Bengal

Signature
(Secretary / Principal Secretary, Concerned Department)

Executive Summery

Project Details

1	State		:	West Bengal
2	City		:	New Barrackpore
3	Project Name		:	Pradhan Mantri Awas Yojana , Housing For All. (Urban)
4	Project Cost	(Rs. In Lacs)	:	3226.25
5	Central Share	(Rs. In Lacs)	:	1195.50
6	State Share	(Rs. In Lacs)	:	1684.85
7	ULB Share	(Rs. In Lacs)	:	146.65
8	Beneficiary Share	(Rs. In Lacs)	:	199.25
10	SOR Adopted		:	PWD (WB) w.e.f 1.7.14 with current corrigendum.

Project Contributions (Physical + Financial) (Rs. In lacs)

Sl No.	Scheme Component	Type	Quantity	Unit	Rate (in Rs./unit)	Proposed project cost (in lakh)	Appraised Project Cost (in lakh)	Central Share	State Govt. Share	ULB Share	Benificiaries Share
A. HOUSING											
1	New in- situ										
	Single storied units		797	Nos.	368000.00	2932.96	2932.96	1195.50	1538.21		199.25
2	Up-gradation										
3	Rental										
4	Transit										
	Total Housing Cost Sub Total (A)					2932.96	2932.96	1195.50	1538.21	0.00	199.25

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Sl No.	Scheme Component	Type	Quantity	Unit	Rate (in Rs./unit)	Proposed project cost (in lakh)	Appraised Project Cost (in lakh)	Central Share	State Govt. Share	ULB Share	Benificiaries Share
B. INFRASTRUCTURE											
1	Roads										
i	CC Roads	2.5 m wide	6852.81	Mtr	4097.00	280.76	280.76	0.00	140.38	140.38	
iii	Interlocking Block										
iv	Culverts										
2	Water Supply										
i	UGSR										
ii	SR										
i	Internal Pipeline		797		1572	12.53	12.53	0.00	6.26	6.26	
iv	Pump Station & tube well										
	Total Infrastructure Cost Sub Total (B)					293.29	293.29		146.64	146.65	0.00
	Total (A+B)					3226	3226	1195.50	1685	146.65	199.25

Signature of the ULB Level Competent

Name & Designation:
TRIPTI MAJUMDER
Address: CHAIRPERSON
New Barrackpore Municipality
Fax No: + 91-33-
Telephone No.: + 91-33-
Mobile No.:
E-mail:

Signature of the State Level Nodal Officer
Name & Designation: Sri M.N. Pradhan, IAS
Director, SUDA

Address: State Urban Development Agency

Fax No: 91-33-23585767
Telephone No: + 91-33-23585767
Mobile No.: (0) 9830031488
E-Mail: wbsudadir@gmail.com

Signature of the State Level Competent Technical Officer
Name & Designation: Amit Das, Chief Engineer, Municipal Engeneering Dte, Govt. of West Bengal

Chief Engineer
M.E. Directorate
Dept. of Municipal Affairs
Govt. of West Bengal

Address: Bikash Bhawan, South Block, 1St Floor, Salt lake , Kolkata - 7000 91

Fax No: +91- 33- 23375474
Telephone No.: +91-33-23371331
Mobile No.: (0)9475825219
E-mail: ce_medte@yahoo.com

Signature of the Chairman / CEO/Commissioner of ULB/ Implementing Agency
Name & Designation:
Chairperson, New Barrackpore Municipality

Address: 112 Ashutosh Mukherjee Road, New Barrackpore, Kolkata-700131

Fax No.: (033) 2537 1006
Telephone No.: (033) 2537 5408
Mobile No.:
E-mail No.: chnbrk@yahoo.com

NEW BARRACKPORE MUNICIPALITY					
PMAY (HFA-2022)					
SL. NO	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE PER UNIT (In Rs.)	TOTAL COST (Rs. In lakh)
1	WATER CONNECTION	797	Nos	1572.00	12.53
2	TOILET FACILITIES	No	NO	-	
3	ELCTRIC POLES WITH CONNECTION OF	No	NO	-	
4	ROADS	6852.81	METER	4097.00	280.76
Total =					293.29

TRIDIP KR. KAR
Assistant Engineer
New Barrackpur Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

NEW BARRACKPORE MUNICIPALITY

WORK AND COST SUMMARY - SLUM WISE DETAILS

RAY

CLUSTER-I

Slum No.	Name of Slum	Area SqKm	Population	HOUSING		PHYSICAL INFRASTRUCTURE						Grand Total (Rs. In lakh)
				Dwelling Units (@ Rs.3.60 Lakh/ each)		Leach Pit (@ Rs.0.08 Lakh/ each)		Concrete Roads (@ Rs. 4097.00/M)		Pipe Line @ Rs. 1572.00/M		
				Qty.	Amt.	Qty.	Amt.	Qty.	Amt.	Qty.	Amt.	
1	Mistripara [S.C. 032, Ward No. 1]	0.07	325	15	54.00	15	1.20	126	5.16	15.00	0.24	**60.60**
2	Mistripara [S.C. 036, Ward No. 2]	0.01	2209	9	32.40	9	0.72	126	5.16	9.00	0.14	**38.42**
3	Chandrapally Para [S.C. 030, Ward No. 3]	0.025	493	11	39.60	11	0.88	126	5.16	11.00	0.17	**45.82**
4	1 No. Jhilpar [S.C. 033, Ward No. 4]	0.055	175	5	18.00	5	0.40	117	4.79	5.00	0.08	**23.27**
5	Sajirhat No. 2 [S.C. 026, Ward No. 5]	0.152	747	12	43.20	12	0.96	134	5.49	12.00	0.19	**49.84**
6	Kamargathi para [S.C. 037, Ward No. 5]	0.01	450	6	21.60	6	0.48	117	4.79	6.00	0.09	**26.97**
7	Sajirhat No. 1 [S.C. 025, Ward No. 6]	0.19	333	20	72.00	20	1.60	169	6.92	20.00	0.31	**80.84**
8	Kalabagan Bustee [S.C. 028, Ward No. 6]	0.15	648	20	72.00	20	1.60	227	9.30	20.00	0.31	**83.21**
9	Collegepara [S.C. 031, Ward No. 7]	0.082	1044	12	43.20	12	0.96	229	9.38	12.00	0.19	**53.73**
10	Chasipara Bustee-2 [S.C. 005, Ward No. 7]	0.301	531	12	43.20	12	0.96	278	11.39	12.00	0.19	**55.74**
11	Kalabagan Bustee [S.C. 029, Ward No. 7]	0.28	729	12	43.20	12	0.96	227	9.30	12.00	0.19	**53.65**
12	Burir Bari-1[S.C. 001, Ward No. 7]	0.388	666	12	43.20	12	0.96	178	7.29	12.00	0.19	**51.64**
13	Burir Bari-2 [S.C. 002, Ward No. 7]	0.557	922	12	43.20	12	0.96	126	5.16	12.00	0.19	**49.51**
14	Burir Bari-3 [S.C. 003, Ward No. 7]	0.262	373	12	43.20	12	0.96	219	8.97	12.00	0.19	**53.32**
15	Burir Bari-4 [S.C. 004, Ward No. 7]	0.346	418	12	43.20	12	0.96	119	4.88	12.00	0.19	**49.22**
16	Bagha Jatin Para [S.C. 038, Ward No. 7]	0.01	1008	16	57.60	16	1.28	117	4.79	16.00	0.25	**63.93**
17	Chasipara-2 [S.C. 006, Ward No. 8]	0.225	225	37	133.20	37	2.96	103	4.22	37.00	0.58	**140.96**
18	Ambagan [S.C. 008, Ward No. 8]	0.253	1138	30	108.00	30	2.40	129	5.29	30.00	0.47	**116.16**
19	Janata Road [S.C. 039, Ward No. 8]	0.01	99	30	108.00	30	2.40	135	5.53	30.00	0.47	**116.40**
20	Chasipara -2 [S.C. 007, Ward No. 9]	0.769	1539	100	360.00	100	8.00	195	7.99	100.00	1.57	**377.56**
21	South Masunda [S.C. 027, Ward No. 10]	0.68	1273	40	144.00	40	3.20	117	4.79	40.00	0.63	**152.62**
22	Lowland Bustee-2 [S.C. 024, Ward No. 11]	0.203	981	28	100.80	28	2.24	152	6.23	28.00	0.44	**109.71**
23	Sabjibagan [S.C. 019, Ward No. 13]	0.089	247	14	50.40	14	1.12	134	5.49	14.00	0.22	**57.23**
24	Aurobinda Bustee [S.C. 040, Ward No. 14]	0.01	400	15	54.00	15	1.20	126	5.16	15.00	0.24	**60.60**
25	Sabjibagan-2, [S.C. 022, Ward No. 14]	0.62	1192	5	18.00	5	0.40	119	4.88	5.00	0.08	**23.35**
26	Sabjibagan, [S.C. 018, Ward No. 16]	0.01	769	36	129.60	36	2.88	117	4.79	36.00	0.57	**137.84**
27	Sabjibagan [S.C. 020, Ward No. 17]	0.013	270	32	115.20	32	2.56	126	5.16	32.00	0.50	**123.43**
28	Lichubagan (S.C. 017, Ward No. 17]	0.32	243	11	39.60	11	0.88	169	6.92	11.00	0.17	**47.58**
29	Talpukurpara [S.C. 021, Ward No. 18]	0.69	2011	25	90.00	25	2.00	134	5.49	25.00	0.39	**97.88**
30	Bansbagan No. 2 [S.C. 016, Ward No. 19]	1.11	1282	25	90.00	25	2.00	200	8.19	25.00	0.39	**100.59**
31	Chasipara No. 1 [S.C. 010, Ward No. 20]	0.527	1417	15	54.00	15	1.20	226	9.26	15.00	0.24	**64.70**
32	Chasipara No. 3 [S.C. 011, Ward No. 20]	0.611	1102	16	57.60	16	1.28	226	9.26	16.00	0.25	**68.39**
33	Fatesha Bustee-2 [S.C. 013, Ward No. 20]	0.12	603	17	61.20	17	1.36	126	5.16	17.00	0.27	**67.99**
34	Madhyapara [S.C. 014, Ward No. 20]	0.26	1390	22	79.20	22	1.76	134	5.49	22.00	0.35	**86.80**
35	Bansbagan No. 1 [S.C. 015, Ward No. 20]	0.221	279	13	46.80	13	1.04	117	4.79	13.00	0.20	**52.84**

				HOUSING		PHYSICAL INFRASTRUCTURE						
Slum No.	Name of Slum	Area SqKm	Population	Dwelling Units (@ Rs.3.60 Lakh/ each)		Leach Pit (@ Rs.0.08 Lakh/ each)		Concrete Roads (@ Rs. 4097.00/M)		Pipe Line @ Rs. 1572.00/M		Grand Total (Rs. In lakh)
				Qty.	Amt.	Qty.	Amt.	Qty.	Amt.	Qty.	Amt.	
36	Non Slum of ward no. 7			0	0.00	0	0.00	117	4.79	0.00	0.00	**4.79**
37	Non Slum of ward no. 9			10	36.00	10	0.80	294	12.05	10.00	0.16	**49.00**
38	Non Slum of ward no. 12			14	50.40	14	1.12	134	5.49	14.00	0.22	**57.23**
39	Non Slum of ward no. 13			4	14.40	4	0.32	117	4.79	4.00	0.06	**19.58**
40	Non Slum of ward no. 15			30	108.00	30	2.40	168	6.88	30.00	0.47	**117.75**
41	Non Slum of ward no. 16			10	36.00	10	0.80	168	6.88	10.00	0.16	**43.84**
42	Non Slum of ward no. 18			8	28.80	8	0.64	152	6.23	8.00	0.13	**35.79**
43	Non Slum of ward no. 19			8	28.80	8	0.64	146	5.98	8.00	0.13	**35.55**
44	Non Slum of ward no. 20			4	14.40	4	0.32	137	5.61	4.00	0.06	**20.40**
Total		**4.83**	**15345**	**797**	**2869.20**	**797**	**63.76**	**6853**	**280.77**	**797.00**	**12.53**	**3226.26**

TRIDIP KR. KAR
Assistant Engineer
New Barrackpur Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Rate Analysis
Brick Work 4:1 in foundation & plinth

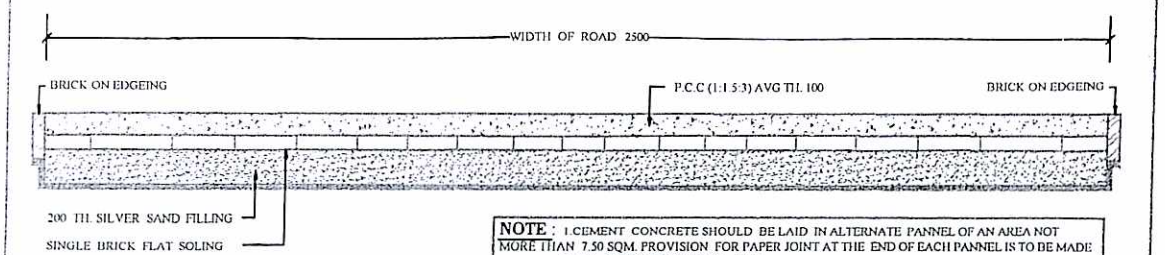
Step - 1	Schedule Rate	Rs	6068.00(A)
Step - 2	Deduct cost of cement=(Quanty of cement)x(lissue rate of cement vide item no-1 column-4 Table1-1 of Annexure-1 0.055x8100	Rs	672.30(B)
Step - 3	Add cost of cement supplied by cost contractor including 10% proffite = 1.1x(Quanty of cement)x(Basik price of cement vide item no -1 column- 5 table-1-1 of annexure -1 1.1x.055x7364	Rs	672.33 (C.)
	Note;- Quantity of cement shall be same as step-2 Final Rate of item = Rs A - Rs B + Rs C = Rs D	Rs	6068.03 (D)

Rate Analysis
Ordinary Mix Concreate 1:1.5:3

Step - 1	Schedule Rate	Rs	6802.63 (A)
Step - 2	Deduct cost of cement=(Quanty of cement)x(lissue rate of cement vide item no-1 column-4 Table 1-1 of Annexure-1 0.286x8100	Rs	2316.6 (B)
Step - 3	Add cost of cement supplied by cost contractor including 10% proffite = 1.1x(Quanty of cement)x(Basik price of cement vide item no -1 column- 5 table-1-1 of annexure -1 1.1x.286x7364	Rs	2316.71 (C.)
	Note;- Quantity of cement shall be same as step-2 Final Rate of item = Rs A - Rs B + Rs C = Rs D	Rs	6802.74 (D)

Rate Analysis
P.C.C 1:3:6 With Jhama Khoa

Step - 1	Schedule Rate	Rs	5803.00 (A)
Step - 2	Deduct cost of cement=(Quanty of cement)x(lissue rate of cement vide item no-1 column-4 Table 1-1 of Annexure-1 0.16x8100	Rs	1296.00(B)
Step - 3	Add cost of cement supplied by cost contractor including 10% proffite = 1.1x(Quanty of cement)x(Basik price of cement vide item no -1 column- 5 table-1-1 of annexure -1 1.1x.16x7364	Rs	1296.06 (C.)
	Note;- Quantity of cement shall be same as step-2 Final Rate of item = Rs A - Rs B + Rs C = Rs D	Rs	5803.06 (D)



NOTE : 1.CEMENT CONCRETE SHOULD BE LAID IN ALTERNATE PANNEL OF AN AREA NOT MORE THAN 7.50 SQM. PROVISION FOR PAPER JOINT AT THE END OF EACH PANNEL IS TO BE MADE
2. ALL DIMENSIONS ARE IN MM.

TYPICAL CROSS SECTION OF CEMENT CONCRETE ROAD

PRADHAN MANTRI AWAS YOJANA
HOUSING FOR ALL (URBAN)

OFFICE OF THE CHIEF ENGINEER
MUNICIPAL ENGINEERING DIRECTORATE
GOVT. OF WEST BENGAL

DWG. NO.

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Annexure - II

Format - A

(Format for Rate Analysis of Cement Concrete Item)

Item 7. Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding Consumptionof Stone aggregate (Page B-59)

20 mm = 0.573 Cum

10 mm = 0.287 Cum

Distance of site considered = 10 Km

Steps	Quantity	Unit	Rate	Amount
Step - 1 Rate of item as per relevant section of this Schedule A =	1.00	CUM	5389.00	**5389.00**
Step - 2 Add cost of stone aggregate of different grading as per consumption required for one cum of concrete.				
(As per table:T-1)				
Station : kalyani				
20mm Nominal Size:	0.573	CUM	1463.00	838.30
10mm Nominal Size:	0.287	CUM	1296.00	371.95
Total B =				**1210.25**
Step - 3 Add cost of carriage of stone aggregate as per consumption required for one cum of concrete.				
(As per table:T-2)				
20mm Nominal Size:	0.573	CUM	178.50	102.28
10mm Nominal Size:	0.287	CUM	178.50	51.23
Total C =				**153.51**
Step - 4 Add cost for loading and unloading of stone aggregate				
(As per table:T-3)				
20mm Nominal Size:	0.573	CUM	58.00	33.23
10mm Nominal Size:	0.287	CUM	58.00	16.65
Total D =				**49.88**
Final Rate of Item = [Rs. A - Rs.B + Rs.C + Rs.D] = Rs.				**6802.64**

ESTIMATE FOR CONSTRUCTION OF CONCRETE ROAD 2.5 MRTRE WIDE

PWD BUILDING SCHEDULE 2014

Sl No	Description of Items	Length	Breadh	Depth	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches leveling dressing and ramming the bttom boiling out water aqs requred complete . Depth of exavation not existing 1500mm **P.No-1, I-2(a)**	1.00	2.5	0.400	1.000	%Cu.M	12047.00	120.47
2	Filling foundation or plinth by silver sand in layer not exceeding 150 mm. as directed and consolidating same by through saturation with water rammingcomplete. Including the cost of supply of sand. (a) by fine sand **P.No-2 , I-4(B)**	1.00	2.5	0.200	0.500	%Cu.M	110422.00	552.11
3	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand **P.no-11, I-1**	1.00	2.5		2.500	Sq.M	377.00	942.50
4	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes **P.no-24, I-10(a)**	1.00	2.5	0.125	0.313	Cu.M	6802.74	2,125.86
5	Brick edging 75 mm. wide with picked jhama bricks, laid true to line and level including cutting necessary trench in sopil or in hard metalled surface, laying the bricks and repacking the trench (on both sides of the edgeing) with spoils and ramming the same throughly, complete as per direction. (b) Brick-on-end edging (250 mm) depth. **P.No-189 , I-3(b)**	2.00			2.000	%Mtr	9392.00	187.84
6	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound in conformity with the Municipapal /Corporation Rules forsuch disposal, loading into truck and cleaning the site in all respect as per direction of Engineer - in -Charge **P.no-9, I-13**	1.00	2.500	0.400	1.000	Cu.M	168.00	168.00
							Toatl=	**4,096.78**
							Total=	**4,097.00**

Supplying laying of D.I Pipe line (100 mm dia)

SCHEDULE FOLLOWS

A. P.W.D. Schedule of Rates For Building Works, Materials and Labour Effective from 1st July 2014

B. K.M.D.A. Water Supply Schedule of Rates 2004.

Considering 1000 m. length

Sl. No.	Description of Item	Quantity	Rate	Unit	Amount (in Rs.)
1. Page-1 It No- 2(a)	Earth work in Excavation of Foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spoils with a lead of 75 Mtr as directed. The item includes necessary trimming the sides of trenches, leveling dressing and ramming the bottom, bailing out water as required complete. a) Depth of Excavation not exceeding 1,500 mm. (i) 1000x0.50x1.00=500.00	**500.00**	**12,047.00**	**% M^3**	**60,235.00**
2. Page-1 It No- 3(a)	Earth work in filling in foundation trenches or plinth with good earth. In layers not exceeding 150 mm including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work) [(i)-(3.14x0.1^2)*1000=31.40, 500.00-31.40=468.60 cum a) with earth obtain from excavation of foundation.	**468.60**	**7,831.00**	**% M^3**	**36,696.07**
3. Page - 53 It No-1.2.2 (b)	Lowering any type of D.I pipe and specials and laying along trench at any depth as per specification and direction of the Engineer in charge. b) 100 mm Dia	**1,000.00**	**394.00**	**%M**	**3,940.00**
4. Page No- 56 It No-1.2.5 (b)	Rubber gasket joints to C.I / D.I pipes and laying along trench at any depth as per specification and direction of the Engineer in Charge. b) 100 mm Dia	**270.00**	**20**	**Each**	**5,400.00**
5. Page No- 57 IT No-1.2.6 (b)	Flange joint to C.I / D.I / M.S pipes and specials including supply of rubber gasket, nuts, bolts washers ect. Of best quality to make the joint water tight at required hydraulic presser all complete as specification & direction of the Engineer in charge. b) 100 mm Dia	**29.00**	**210**	**Each**	**6,090.00**
6. Page No- 58 It No-1.2.7 (b)	Cutting of C.I / D.I pipes for fitting with pipes and or specials of similar or de similar materials at the time of laying without damaging any part of the required length including taking out of the broken pieces from the trench and restacking the same at the specified location as per direction of the Engineering in charge. b) 100 mm Dia	**50.00**	**33.00**	**Each**	**1,650.00**

Sl. No.	Description of Item	Quantity	Rate	Unit	Amount (in Rs.)
7. Page No- 71 It No- 1.5 (b)	Chamfering the spigot end of C.I / D.I pipes for fittings with the socket of C.I / D.I pipes and or specials in tyton jointed water mains or otherwise using electric grinder as per Engineering in charge. b) 100 mm Dia	**30.00**	**35.00**	**Each**	**1,050.00**
8. Page No-71 It No- 1.5 (b)	Lowering, fitting and fixing all types of valve in proper position and alignment using chain pulley block or crane (for diameter above 250 mm) by providing temporary support as required, gasket nuts & bolts etc. all complete as per specification and direction of the Engineer in charge. b) 100 mm Dia	**11.00**	**443.00**	**Each**	**4,873.00**
9. Page No- 78 It No- 4.1 (b)	Hydraulically testing of C.I / D.I / AC pipe line in sections under a head of water not less then 60m(6Kg/Cm2 pressure) or above as per specific requirements by filling the main with supply of water including supply of all specials and equipments, like pump set, gauges, end caps, blank flange etc. all complete as per instruction of the Engineer in charge. b) 100mm Dia	**1,000.00**	**8.00**	**M**	**8,000.00**
10. Page No- 80 It No- 5.1 (b)	Disinfections of water main by filling with water containing bleaching powder of sufficient quantity capable of maintaining a residual chlorine concentration of 10mg/1 within the main after a detention period of two hours and complete as per specification and direction of the Engineer in charge. b) 100mm Dia	**1,000.00**	**4.00**	**M**	**4,000.00**
11. Page No- 82 It No-6.1	Dewater by pumps including all heads lifts and making all arrangements of disposal, where continues flow of water from a source other than natural or ground water is encountered in case of emergency maintenance works related to leakage, breakage and making wet connections.	**1,290.00**	**12.00**	**HP.Hr**	**15,480.00**
12. Page No-105 It No-9.6 (a)(i) & (c)(i)	All types of ductile iron (spun) special (viz Bend, Tee, Taper, Tail piece etc.) size confirming to I.S. Specification No-9523 / 2000 with cement mortar lining (inside and bituminous coating (outside) (25% of payments will be held up till successful hydraulic testing) i) All socketed Tee 80 mm- 300 mm 150x150x100,6 Nos @ 29.50 Kg/each =177 Kg 100x100x100, 6 Nos @ 21.50 Kg/each =129 Kg	**306.00**	**67.00**	**Kg**	**20,502.00**
	j) Tail Piece 80 mm- 300 mm 100x100,18 Nos @ 9.70 Kg/Each =174.60 Kg	**174.60**	**80.00**	**Kg**	**13,968.00**
13. Page No-108 It No-9.8 (ii)	Single / Double bit SBR gasket suitable for jointing C.I / D.I presser pipes, confirming to I.S. 5382-1985 b) 100 mm Dia	**312.00**	**31.00**	**Each**	**9,672.00**

Sl. No.	Description of Item	Quantity	Rate	Unit	Amount (in Rs.)
14. Page No-108. It- No-9.8 (ii)	Cast iron double flanged valves generally confirming to I.S. 14846 : 2000 having four faces and spindle nut or gunmetal, inside screw non rising type brass / AISI 410 spindle ; seat tested to 10 Kg / CM2 And body tested to 15 Kg / CM2 Flanges flat faces and drilled to I.S: 1538: 1993 b) 100 mm Dia	**10.00**	**3,209.00**	**Each**	**32,090.00**
15. Page No-87 It No-6.26 (b)	Supplying Including cost of installation of compression flanged socket tailpiece for connecting flanged fitting to the plain (spigot) end of C.I / D.I pipes. b) 100 mm Dia	**18.00**	**1,028.00**	**Each**	**18,504.00**
16. Page No- 93 It No-6.33 (b)	Supplying including cost of installation of cast iron mechanical joint Double socket 90^0 Bend for connecting two plain ends of C.I / D.I pipes, with C.I body and follower gland, zinc coated MS. Fasteners and sealing rubber gasket as per IS: 13382-90 complete. b) 100 mm Dia	**4.00**	**2241**	**Each**	**8,964.00**
17. Page No-93 It No-6.33 (b)	Supplying including cost of installation of cast iron mechanical joint Double socket 45^0 Bend for connecting two plain ends of C.I / D.I pipes, with C.I body and follower gland, zinc coated MS. Fasteners and sealing rubber gasket as per IS: 13382-90 complete. d) 100 mm Dia	**4.00**	**1977**	**Each**	**7,908.00**
18. Page No-93 It No-6.34 4(b)	Supplying including cost of installation of cast iron mechanical joint Double socket 22.5^0 Bend for connecting two plain ends of C.I / D.I pipes, with C.I body and follower gland, zinc coated MS. Fasteners and sealing rubber gasket as per IS: 13382-90 complete. f) 100 mm Dia	**3.00**	**1887**	**Each**	**5,661.00**
19. Page No-22 It No-15	Sluice valve chamber with C.I heavy cover with locking arrangement (weight not less then 25 Kg) (size of chamber 450 mm x 600 mm inside up to 900 mm depth) 250mm thick cement brick walls (6:1) 150 mm thick cement concrete (6:3:1) bed with jhama chips 19 mm thick cement plaster (6:1) for inside wall and 12 mm thick cement plaster (6:1) for outer walls including rounding corners b) 100 mm Dia sluice valve chamber	**10.00**	**7,576.00**	**Each**	**75,760.00**
20	Supply of D.I Pipe with conformation to relevent IS codes and as per direction of EIC. 100 mm dia	**1,000.00**	**867.00**	**M**	**867,000.00**
21	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound in conformity with the Municipapal /Corporation Rules forsuch disposal, loading into truck and cleaning the site in all respect as per direction of Engineer - in - Charge. 1000x0.5x0.5=250 cum	**250.00**	**168.00**	**cum**	**42,000.00**
				Total Rs.	**1,249,443.07**
				Say=	**1,249,443.00**

Per meter Length=Rs. 1249.00

(Rupees Twelve Hundread Fourty Nine only)

ESTIMATE FOR CONSTRUCTION OF SUR FACE DRAIN (300X300)

PWD BUILDING SCHEDULE 2014

Sl No	Description of Items	Length	Breadh	Depth	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches leveling dressing and ramming the bttom boiling out water aqs requred complete . Depth of exavation not existing 1500mm **P.No-1, I-2(a)**	1.00	0.95	0.475	0.451	%Cu.M	12047.00	54.36
2	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand **P.no-11, I-1**	1.00	0.95		0.950	Sq.M	377.00	358.15
3	Cement concrete with graded jhama Khoa ballast (30 mm size) excluding shuttering. In ground floor and foundation (a) 6:3:1 proportion.	1.00	0.95	0.100	0.095	Cu.M	5803.06	551.29
4	Brick work with 1st class bricks in cement mortar (4 :1). a) In foundation & Plinth **P.no-29, I-21(a)**	1.00	0.25	0.600	0.150	Cu.M	6068.00	910.20
5	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface including throating, nosing and drip course where necessary. (Gr.floor). i) With 4:1 cement mortar. a) 20 mm. Thick plaster. **P.no-151, I-2(a)**	1.00	1.1		1.100	Sq.M	206.00	226.60
6	Neat cement punning above 1.5 mm thick in wall, dado, windowsills, floor, drain etc. **P.no-152, I-8**	1.00	1.100		1.100	Sq.M	38.00	41.80
7	Aritificial stone in floor dado staircase etc. with cement concrete 1:2:4 with stone chips laid in pannels as directed with topping made with ordinary or white cement (as measured) and marble dust in porportion (2:1) including smooth finishing and round **P.no-40, I-3(ii)**	1.00	0.300		0.300	Sq.M	303.00	90.90
8	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound in conformity with the Municipapal /Corporation Rules forsuch disposal, loading into truck and cleaning the site in all respect as per direction of Engineer - in -Charge **P.no-9, I-13**	1.00	0.800	0.475	0.3800	Cu.M	168.00	63.84
							Toatl=	**2,297.14**
							Total=	**2,297.00**

NEW BARRACKPORE MUNICIPALITY

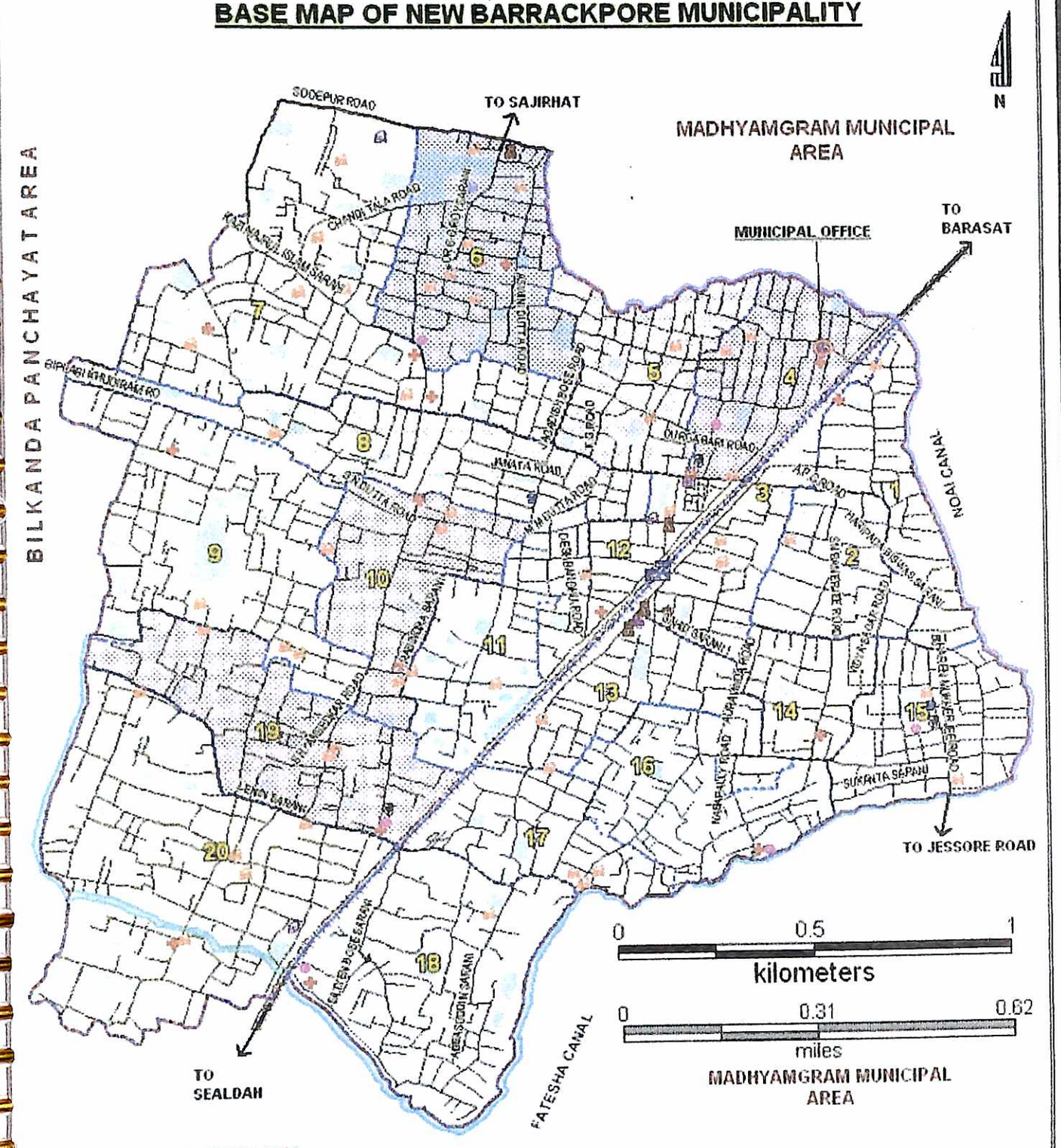
ESTIMATE FOR CONSTRUCTION OF CLOSED EUCALYPTUS BULLAH PILLING WITH EARTH FILLING WITH CEMENT BAG WALLING & EARTH FILLING FOR PROTECTING ROADS UNDER RAY PROJECT OF NEW BARRACKPORE MUNICIPALITY.

Consider Length = 55 Mtr.

Sl. No	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE (in Rs.)	AMOUNT (InRs.)
1 P no-217 81 no-24	Pumping out water from Ponds or Tank. 2x(13.75+13.75)x0.70=38.50	38.50	%Cu.M	1054.00	405.79
2 P no-318 sl no- 18.18(i)	Supplying U_C. Bullah Piles at work including dressing and making one end pointed.				
	For post 368x2.40=883.20	883.20	Mtr	96.00	84787.20
	For runner 1x55=55.00 including lap 1x40=40.00 Total = 95.00 mtr	95.00	Mtr	96.00	9120.00
3 P-318 S1.No- 18.18(i)	Supply of Bullah (EUC) for tie bar & tie post				
	Tie Bar 38x1.00=38.00	38.00	Mtr	96.00	3648.00
	Tie Post 38x1.00=38.00	38.00	Mtr	96.00	3648.00
4. Page-318 Sl.I~o- 13.17(i)	Labour for driving Eucalyptus bullah piles by monkey in sorts of soil including hoisting and placing piles in position, protecting the pile head with iron ring and cutting and shaping heads before and after driving and including hire and labour for necessary driving appliances and all tackles.				
	100 mm Diameter 368x1.20=441.60	441.60	Mtr	83.00	36652.80
5 Page-319 Sl.N 0- 18.28	Supplying empty Cement bags in good condition 1x1377=1377	1377.00	%Nos	330.00	4544.10
6 Page-319 Sl.No- 18.29	Filling empty Cement bags with dry earth or sand, stitching the bag (cost of thread included) and carrying and placing them in position and all incidental charges complete but. excluding cost of sand and gunny bags. 1x1377=1377	1377.00	%Nos	350.00	4819.50

7 Page-319 SI.N 0-13.27	Coal tarring on wooden surfaces including cost of materials (a) Double coat. 1x883.20x2x3.14x0.05=277.32 2x38x2x3.14x0.05=23.86 1x95x2x3.14x0.05=29.83 Total = 331.01	331.01	Sqm	36.00	11916.36
8 Page-322 S1.1'[0-18.41	Labour for fitting and fixing lOcm to Ificm diameter eucalyptus-bullah as ties and runners including necessary nails, bolts and nuts. 1x38=38.00 1x95=95.00 Total = 133.00	133.00	Mtr	20.60	2739.80
9 Page-I(Build.) Sl.No-3 (c) (iii)	Earth work in filling in foundation trenches 01' plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				
	(i) With carried earth arranged by the contractor within a radius exceeding 3 km. But not exceeding 5 km. including the cost of carried earth. 1x55x0.90x1.20=59.40	59.40	%Cu.M	40300.00	23938.2
10 P.no-9, I-13	Removal of rubbish, earth etc. from the orking site and disposal of the same beyond the compound in conformity with the Municipapal/Corporation Rules forsuch disposal, loading into truck and cleaning the site in all respect as per direction of Engineer - in -Charge 55x1.20x0.600=39.60	39.60	Cu.M	168.00	6652.80
	Total for 55 mtr. Length Rs. =				**192872.55**
	Say Rs. =				**192873.00**
	Cost per Mtr. Length =				**3507.00**

BASE MAP OF NEW BARRACKPORE MUNICIPALITY



TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Scale: 1" = 0.1827 KM = 0.1135 miles

CITY PROFILE

New Barrackpore is situated in the Barackpore Sub-division of district North 24 Parganas. This is a small ULB with an area of 6.89 sq. km. with 20 nos. of wards.New Barrackpore is a very peaceful residential town in vicinity of Kolkata. It is just 17 km. away from the Sealdah railway station and 4 km. from Airport. The two municipalities viz. Madhyamgram& North Barrackpore and one gram panchayat viz. Bilkanda is situated in the boundary of New Barrackpore. During the year 2010 there was last delimitation of wards in this ULB. Previously the no. of wards was 19 and from the year 2010 the number was increased to 20.

Name of the Urban Local Body: New Barrackpore

1	**Name of the District:**	North 24 Paraganas
2	**Year of establishment:**	1965
3	**Area (in sq. Km):**	6.89 sq. km.
4	**No. of wards:**	20
5	**Population (Census 2011):**	
5.1	Male	38239
5.2	Female	38607
5.3	Total	76846
6	**Density of Population (Per sq. km.)**	11153
7	**Break up of Population**	
7.1	SC	19990
7.2	ST	595
7.3	Minorities	
8	**Date when last election held:**	2015
9	**Year of Last Assessment of Properties:**	2013-14
10	**Literacy Rate**	86.98
11	**Number of BPL Household (as per SUDA Survey):**	2192
12	**Slum Scenario**	
12.1	Total No of Slum	44
12.2	Percentage of Slum Population to the total population	26.77 %
13	**Housing status for Urban Poor: (as on 31.03.14)**	
13.1	No. of beneficiaries provided with Houses under BSUP / IHSDP/ "Housing for Urban Poor"	1052
14	**Length of Municipal Road: (in km.)**	185.51 Km.
15	**Length of Drain: (in km.)**	269.41 Km.
16	**Water Supply:**	
16.1	No. of Tubewell	23 (Deep) + 350(Hand) (Hand
16.2	No. of Stand post	95
16.3	No. of houses connected with water supply network	11268
17	**Total no. of light posts.**	1025
18	**Health :**	
18.1	No. of Hospital (ULB / Govt./ Private)	1 (ULB)

18.2	No. of Municipal Health Sub-Centre	15
19	**Education :**	
19.1	No. of Higher Secondary School (Municipal/ others)	8
19.2	No. of Secondary School (Municipal/ others)	3
19.3	No. of Primary School(Municipal/ others)	28
19.4	No. of Sishu Siksha Kendras (SSK)	Nil
20	**Other Infrastructure (Both Municipal & Others) :**	
20.1	Bridge	Nil
20.2	Flyover	Nil
20.3	Stadium	Nil
20.4	Parks and Gardens	35
20.5	Playground	7
20.6	Auditorium/Community Hall	Nil
20.7	Borough Office	NA
20.8	Ward office	9
20.9	Market	7
20.10	Burning Ghat	Nil
20.11	Electric Crematorium	Nil
20.12	Burial Ground	1
20.13	Public Library	4
20.14	Bus Terminus	1
20.15	Ferry Ghat	Nil
20.16	Guest House/ Tourist Lodge	5
20.17	Community Latrine	9
20.18	Night Shelter	Nil
20.19	Others (Please specify) -	

HFAPoA and Prodhan Mantri Awas Yojana (Housing for All)

To give pucca house for every family is currently on the global agenda. One of the Millennium Development Goals (MDGs) is to 'achieve significant improvement in the lives of slum dwellers, by 2022 . Similar goals are set forth by Pradhan Mantri Awas Yojana within year 2022, to create pucca house for every family.

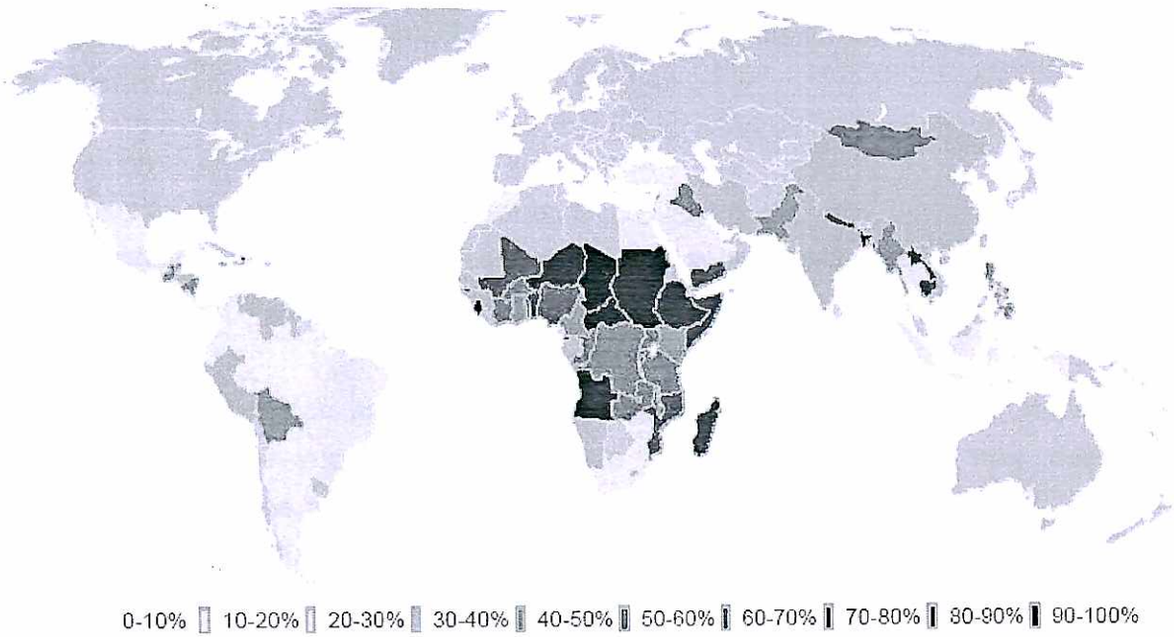
ULB undertake a demand survey through suitable means for assessing the actual demand of housing. While validating demand survey, Cities consider possible temporary migration from rural areas to the city just to take advantage of housing scheme and exclude such migrants from list of beneficiaries. On the basis of demand survey and other available data, cities prepare Housing for All Plan of Action (HFAPoA). HFAPoA contain the demand of housing by eligible beneficiaries in the city along with the interventions selected out of four verticals. The information regarding beneficiaries is collected by ULB in suitable. While preparing HFAPoA, ULB and Implementing Agencies also consider the affordable housing stock already available in the city as Census data suggests that large number of houses are vacant.

Bank account number and Aadhaar number/Voter ID card/any other unique identification details of intended beneficiaries or a certificate of house ownership from Revenue Authority of beneficiary's native district integrate in the data base of HFAPoA for avoiding duplication of benefit to one individual family. Beneficiaries is validated by ULBs thereby ensuring their eligibility at the time of preparation of the projects and approval of projects.

On the basis of HFAPoA, States/Cities subsequently prepare the Annual Implementation Plans (AIPs) dividing the task upto 2022 in view of the availability of resources and priority. For larger cities, HFAPoA and AIPs is prepared at sub-city (ward/zone etc.) level with the approval of concerned State/UT Government. The result of demand survey, draft HFAPoA and draft AIP is discussed with the local representatives including MLAs and MPs of that area so that their views are adequately factored in while finalising the plans and beneficiary list.

Cities which have already prepared Slum Free City Plan of Action (SFCPoA) or any other housing plan with data on housing, utilise the existing plan and data for preparing "Housing for All Plan of Action" (HFAPoA). Houses constructed under various schemes should be accounted for while preparing HFAPoA

Urban Population Living in Slums and the Indian Scenario (source: UN-HABITAT)



The preparation of HFAPoA broadly involve Slum Development/Rehabilitation Plans based on

a. Survey of all slums – notified and non-notified;
b. Mapping of slums using the state-of-art technology;
c. Integration of geo-spatial and socio-economic data; and
d. Identification of development model proposed for each slum.

1. Base maps to an appropriate scale would be a pre-requisite for the preparation of Slum Development Plan/Slum-free City Plan. States/UTs may need to proceed in the following steps for the preparation of Slum-free City Plans.
2. Securing CARTOSAT II/latest satellite images from NRSC/ISRO and preparation of base maps for the whole city and its fringes using the images;
3. Identification and inventory of all slum clusters of all descriptions in the urban agglomeration with the help of satellite image and other available data;
4. Inventory of all possible vacant lands in each zone of the urban agglomeration that could be used for slum development/ rehabilitation development purposes;
5. Development of Slum Map of every slum within the city and its fringes using GIS with CARTOSAT II images, ground level spatial data collected through total station survey, collating spatial information with respect to plot boundaries, network of basic infrastructure like roads, sewerage, storm drainage and water lines, etc and superimposing this on the satellite image and importing them into GIS platform as the first step towards the preparation of Slum Development Plans and Slum Free City Plan.
6. This may be undertaken with the help of technical partners of NRSC/ ISRO/other technical institutions.
7. Identification and engagement of Lead NGO/CBO to guide and anchor community mobilization for the purpose of slum survey, (May be more than one NGO/CBO in different slum zones) of the city. These Lead NGOs/CBOs should also be associated in slum survey operations and dialogues for preparation of slum level development plans;
8. Conduct of Slum Survey based on the detailed formats (with or without changes)

prepared by the Ministry of Housing & Urban Poverty Alleviation with the help of National Buildings Organization (NBO) - after due training of trainers, training of survey personnel /canvassers and canvassing. It would be helpful for community mobilization to pick as many canvassers from the sourced slum or nearby slum pockets;

9. Collection of bio-metric identification data of slum dwellers based on the above survey (subject to guidelines issued by Unique Identity Authority of India (UIDAI));

10. Entry of data from Slum Surveys in the web-enabled MIS application (to be provided by Ministry of HUPA), compilation and collation of data, preparation of Slum-wise, City and State Slum Survey Database and Baseline Reports. The MIS will assist in developing a robust Slum and Slum Households Information System. (Guidelines and software for development of the MIS will be issued by the Ministry of HUPA);

11. Integration of Slum MIS with GIS Maps to enable the preparation of GIS-enabled

Slum Information System that is to be used for the preparation of meaningful Slum Development Plans and Slum-free City Plan using a city-wide/zone-based approach.(Guidelines and software for development of GIS platform and its integration with the MIS will be issued by the Ministry of HUPA);

Introduction to Prodhan Mantri Awas Yojana (PMAY)

Pradhan Mantri Awas Yojana (PMAY), a path breaking scheme for the slum dwellers and urban poor envisages a 'Pucca house to every family' through encouraging States to tackle the problem of slums in a holistic manner. It calls for a multi-pronged approach focusing on:

- Bringing existing slums within the formal system and enabling them to avail of the same level of basic amenities as the rest of the town.
- Redressing the failures of the formal system that lie behind the creation of slums.
- Tackling the shortages of urban land and housing that keep shelter out of reach of the urban poor and force them to resort to extra-legal solutions in a bid to retain their sources of livelihood and employment.

- Enactment of a set of reforms at the state and city level related to inclusive planning, regulation and financing, which would ensure that adequate fresh housing stock and services get created on an ongoing basis to address both current and future needs of cities.

- An integrated approach covering shelter, services and livelihoods for poor slum communities.

The duration ofPradhan Mantri Awas Yojana [PMAY]

2015 TO 2022

Eligible Components of the PMAY:

Allotment of Houses

Allotment of dwelling units will be in the name of the female member of the . Alternatively, it can be allotted in the name of husband and wife jointly. Ownership of land required for every Beneficiary.

A EWS beneficiary family will comprise husband, wife and unmarried children.
The beneficiary family should not own a pucca house (an all weather dwelling unit) either in his/her name or in the name of any member of his/her family in any part of India to be eligible to receive central assistance under the mission.
EWS households are defined as households having an annual income up to Rs.3,00,000 (Rupees Three Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.

Following infrastructure will be considered for support under PMAY:

1. Water connection
2. Toilet facilities
3. 24 x 7 Electric facilities
4. Roads

Need for Projects

This development project models will give benefits in the city . One of the key objectives of developing the Projects is to incentivize innovation and encourage new approaches and solutions that can demonstrably improve the quality and quantity of shelter and services for the poor.

Such innovation could encompass:

- Projects with strong community participation i.e. Slum upgradation/ redevelopment projects initiated/spearheaded by the community; or with their demonstrable involvement and participation in design, planning and implementation
- New models of public-private partnerships whereby the private sector can be encouraged to take up affordable housing for the EWS/LIG.
- Innovations in planning, demonstrating integrated livelihoods, shelter and services; or convergence.
- Innovative or cost effective and green building design and technologies.
- Financial innovations in delivering the city/state wide programme.

Aims and Objectives

Vision

The mission seeks to address the housing requirement of urban poor including slum dwellers through following programme verticals:

- Slum rehabilitation of Slum Dwellers with participation of private developers using land as a resource
- Promotion of Affordable Housing for weaker section through credit linked subsidy
- Affordable Housing in Partnership with Public & Private sectors
- Subsidy for beneficiary-led individual house construction

Objectives

The project has been designed keeping in mind the following objectives.

- Integrated development of all existing slums, notified or non-notified, i.e., development of infrastructure and housing in the slums/rehabilitation colonies for the slum dwellers/urban poor, including rental housing.
- Development/improvement/maintenance of basic services to the urban poor, including water supply, sewerage, drainage, solid waste management, approach and internal road, street lighting.
- The Creation of affordable housing stock, including rental housing with the provision of civic infrastructure and services, on ownership.
- Encouraging Public Private Partnership by having pay and use toilets and educate the slum dwellers for keeping the environment clean and hygienic.

State PMAY Mission Director

The Nodal Ministry and National Mission Directorate is Ministry of Housing & Urban Poverty Alleviation, Government of India.

The Nodal Department for West Bengal is Municipal Affairs Dept. (M.A. Department), Government of West Bengal. The state level Nodal Agency is State Urban Development Agency (SUDA) under M.A. Department. State Urban Development Agency was set up in 1991 with a view to ensuring proper implementation and monitoring of the centrally assisted programmes for generating employment opportunities and alleviation of poverty throughout the State. SUDA is a Society registered under the West Bengal Societies Registration Act, 1961.

Funding Pattern of PMAY

Funding pattern for PMAY(Housing for all)

- Central share 1.5 LAKHS of total cost of dwelling unit
- Beneficiary share 0 .25 LAKHS of total cost of dwelling unit
- State share rest of total cost of dwelling unit
- State + ULB bear the cost of infrastructure
- State share for infrastructure to be minimum 5%
- ULB share for infrastructure to be minimum 5%
- Cost of infrastructure 10 % of sum total cost of dwelling unit

Approvals & Release of Funds

- Releases and approvals to be on the basis of DPRs which need to be submitted with approval of State Level Sanctioning and Monitoring Committee
- Innovative projects to be considered for sanction even in the preparatory stage.
- Central Funds to be released in three installments to the State Governments/SLNA;central assistance under different components will be released to the state / UTs after the approval of CSMC and with concurrence of the integrated Financial Division of the Ministry. Central share would be released in three installment of 40%,40% and 20% each.

Project Cost and Financing Strategy

For Dwelling Unit

Total no of Dwelling unit = 2022Nos

Rate per Dwelling unit = 3.68 Lakhs

Total Cost of Dwelling unit = 2022 x 3.68 = 7440.96 Lakhs

Central Share = 2022 x 1.5 Lakhs = 3033.00 Lakhs

State Share = 2022 x 1.93 Lakhs = 3902.46 Lakhs

Beneficiary Share = 2022 x 0.25 Lakhs = 505.50 Lakhs

ULB Share = NIL

For Infrastructure

10 % of total Dwelling unit cost = 7440.96 Lakhs x 10% = 744.096Lakhs

Central Share = NIL

State Share = 50% x 744.096 Lakhs = 372.048Lakhs

Beneficiary Share = NIL

ULB Share = 50% x 744.096 Lakhs = 372.048 Lakhs

The total project cost will be 81.85 crores

Out of these 81.85 Crores is the cost of Housing Infrastructure. The following table shows the share of cost between housing infrastructure & Physical Infrastructure.

Table: Cost Break up between Housing & Infrastructure

SINo.	Component	Cost on Lakhs
1.	Housing Cost(2022)Dwelling Units)	7440.96
2.	Infrastructure Cost	744.096
	Total	**8185.056**

Materials of construction:

- PCC (1:3:6) for foundation
- RCC M-20 for substructure & superstructure (Column, Beam, Slab)
- HYSD Steel
- 1st Class Brick Masonry
- 1:6 (Cement: Sand) plaster – 10 mm on soffit of beam & slab, 15 mm on internal walls & 20 mm on external walls
- IPS flooring

Definition of Slum for Housing

Different definitions of a slum exist in different statutes and in urban poverty literature. For the purpose of HOUSING SCHEME, it is proposed to adopt the definition given in the 2001 Census, which is as follows:

a. All areas notified as 'Slum' by State/Local Government and UT Administration under any Act;
b. All areas recognized as 'Slum' by State/Local Government and UT Administration, which have not been formally notified as slum under any Act;

'Slum' or 'Slum Area'– is a compact settlement of at least 20 households (For NE & Special Category States it is 10-15 households) with a collection of poorly built tenements, mostly of temporary nature, crowded together usually with inadequate sanitary and drinking water facilities in unhygienic conditions.

Situation Appraisal

The people living in the slums mostly have kutcha (10) and semi-pucca (186) housing. In certain cases where pucca housing is available, they are usually in dilapidated condition. The kutcha

houses are in very poor condition and require extensive repairs. Most of the houses have tiles on roof. While during the survey some of the houses have been noted to be in average condition, the quality of these houses is also speedily deteriorating.

Proposed Intervention

In line with the vision to '**housing for all**', an integrated housing programme is proposed to be implemented. The target will be all the slum /Non Slum dwellers in the pocket.

Building Plan

The buildings are proposed to cover an area of approximate 32 Sq.mt along with provision of 2 rooms, kitchen and sanitation facility. The layout, size and type design of housing dwelling units depends on the local conditions and the preferences of the beneficiary. The houses, has been designed in accordance with the desire of the beneficiaries, keeping in view the climatic conditions and the need to provide ample space, kitchen, ventilation, sanitary facilities, etc. and the community perceptions, preferences and cultural attitudes.

In line with the scheme, carpet area of the house will be not less than 25 sq. mts and preferably two room accommodation plus kitchen and toilet should be constructed.

Compliance with Municipal Bye laws

All designs & drawings are created keeping in line with the municipal bye laws.

Building material

- PCC (1:3:6) for foundation
- RCC M-20 for substructure & superstructure (Column, Beam, Slab)
- HYSD Steel
- 1st class Brick Masonry
- 1:6 (Cement: Sand) plaster – 10 mm on soffit of beam & slab, 15 mm on internal walls & 20 mm on external walls
- IPS flooring

Structural Design

- Following are the general considerations in the analysis/design.
- For all structural elements, M20 grade concrete and Fe 415 grade of steel is used.
- Plinth beams passing through columns are provided as tie beams.
- Pedestals are proposed up to ground level.
- Beam Centre-line dimensions are followed for analysis and design.
- For all the building, walls of 250 mm and 125mm thick with 20 mm External plaster and 12 mm thick internal plaster are considered.
- Seismic loads are considered acting in the horizontal direction along either of the two principal directions.

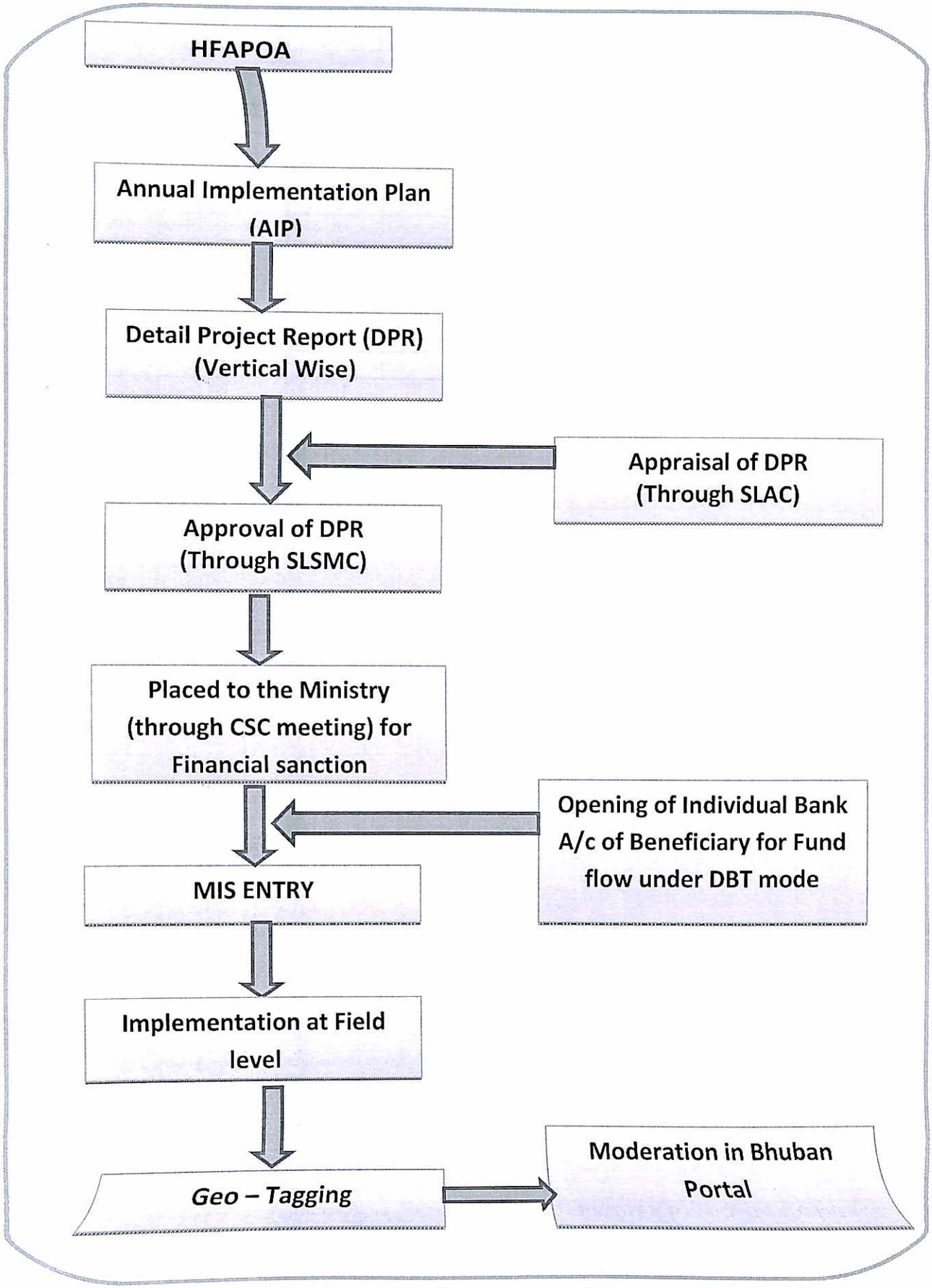
Design data

- Live load: 2.0 kN/m2 at typical floor
- 1.5 kN/m2 on terrace (With Access) : 0.75 kN/m2 on terrace (without Access)
- Floor finish 50mm (0.05*24) = : 1.2 kN/m2
- Ceiling plaster 12mm (0.012*20.8) : 0.25 kN/m2
- Partition walls (Wherever Necessary) : 1.0 kN/m2
- Terrace finish: 1.5 kN/m2
- Earthquake load: As per IS-1893 (Part 1) - 2002
- Depth of foundation below ground: ,0.7 m
- Walls: 250 mm thick brick masonry walls at external and 125mm walls internal.

Reference codes:

- IS 456: 2000 - Code of practice -Plain and Reinforced concrete.
- IS :1893 :2002 - Criteria for Earthquake resistant design of structures(Part-1)
- IS: 13920: 1993 - Ductile detailing of Reinforced concrete structures subjected to seismic forces.
- SP: 34 - Hand Book on Concrete Reinforcement and Detailing.
- S: 875: 1987 - Code of practice for design loads (other than earthquake) for buildings and structures. (Part-2)
- NBC:2005

Work flow of PMAY – HFA (U) for 2016-17



I. Slum-wise Intervention strategies for Tenable Slums

Name of the Slum	Area of the Slum in	Total No. of Slum	Eligible Slum	Whether 'in-situ'	Required Area for in-	FSI/FAR		Name of other slum if
						Existing	Proposed	

Table 2. Slum-wise Intervention strategies for Untenable Slums and Non PPP Slums

Name of the Slum	Area of the Slum in sq. mtrs	Total No. of Slum Households as per Demand Survey*	Proposed Development Strategy i. Affordable Housing Project (AHP) ii. Credit Linked Subsidy Scheme (CLSS) iii. Beneficiary Led Construction iv. Clubbing with other Tenable Slums**	Proposed Year of Intervention
SABJIBAGAN - WARD (13) [S.C.19]	8945	24	Beneficiary Led Construction	2015-16 to 2021-22
CHANDRAPALLY PARA [S.C. 30]	2567	16	Beneficiary Led Construction	2015-16 to 2021-22
SAJIRHAT NO - 1 [S.C. 25]	19400	81	Beneficiary Led Construction	2015-16 to 2021-22
KALABAGAN BUSTEE - WARD (6) [S.C. 28]	15720	14	Beneficiary Led Construction	2015-16 to 2021-22
BAGHAJATIN PARA [S.C-038]	1000	7	Beneficiary Led Construction	2015-16 to 2021-22
Burir Bari No - 4 [S.C. 4]	34680	14	Beneficiary Led Construction	2015-16 to 2021-22
BURIR BARI NO - 1 [S.C. 1]	38830	100	Beneficiary Led Construction	2015-16 to 2021-22
BURIR BARI NO - 2 [S.C. 2]	55710	68	Beneficiary Led Construction	2015-16 to 2021-22
BURIR BARI NO - 3 [S.C. 3]	26280	18	Beneficiary Led Construction	2015-16 to 2021-22
CHASIPARA BASTEE - 2 - WARD (7) [S.C. 5]	30130	77	Beneficiary Led Construction	2015-16 to 2021-22
KALABAGAN BUSTEE - WARD (7) [S.C.29]	28070	45	Beneficiary Led Construction	2015-16 to 2021-22
COLLEGEPARA [S.C. 31]	8168	11	Beneficiary Led Construction	2015-16 to 2021-22
KODALIA NATUN BAZAR [S.C-041]	1000	7	Beneficiary Led Construction	2015-16 to 2021-22
IRRIGATION LAND - CANAL BUSTEE [S.C-044]	1000	10	Beneficiary Led Construction	2015-16 to 2021-22
SABJIBAGAN - WARD (17)	1366	60	Beneficiary Led Construction	2015-16 to 2021-22
LICHU BAGAN [S.C. 17]	32460	34	Beneficiary Led Construction	2015-16 to 2021-22
TARUN SANGHA KHELAR MATH [S.C-042]	1000	10	Beneficiary Led Construction	2015-16 to 2021-22
TALPUKUR PARA [S.C. 21]	69550	15	Beneficiary Led Construction	2015-16 to 2021-22
SABJIBAGAN - WARD (16) [S.C. 18]	1240	9	Beneficiary Led Construction	2015-16 to 2021-22
AUROBINDO BUSTEE (S.C-040) [S.C. 40]	1000	15	Beneficiary Led Construction	2015-16 to 2021-22
Sabjibagan No. 2 [S.C. 22]	62140	9	Beneficiary Led Construction	2015-16 to 2021-22
MISTRIPARA [S.C. 32]	7752	9	Beneficiary Led Construction	2015-16 to 2021-22
LOWLAND BUSTEE - 2 [S.C. 24]	20370	62	Beneficiary Led Construction	2015-16 to 2021-22
LOWLAND BUSTEE - 1 [S.C. 23]	22680	3	Beneficiary Led Construction	2015-16 to 2017-18
BANSBAGAN NO - 2 [S.C. 16]	111100	44	Beneficiary Led Construction	2015-16 to 2021-22
KAMARGATHI PARA [S.C-037]	1000	29	Beneficiary Led Construction	2015-16 to 2021-22
SAJIRHAT NO - 2 [S.C.26]	15240	46	Beneficiary Led Construction	2015-16 to 2021-22
SOUTH MASUDA [S.C. 27]	68890	97	Beneficiary Led Construction	2015-16 to 2021-22
CHASIPARA - 2 - WARD (9) [S.C. 7]	74910	133	Beneficiary Led Construction	2015-16 to 2021-22
DHAKI PARA [S.C.9]	19870	10	Beneficiary Led Construction	2015-16 to 2021-22
JANATA ROAD (S.C-039)	1000	4	Beneficiary Led Construction	2015-16 to 2018-19
CHASIPARA - 2 - WARD (8) [S.C. 6]	22530	29	Beneficiary Led Construction	2015-16 to 2021-22
AMBAGAN [S.C. 8]	25370	116	Beneficiary Led Construction	2015-16 to 2021-22

CHASIPARA NO - 1 [S.C. 10]	52730	56	Beneficiary Led Construction	2015-16 to 2021-22
CHASIPARA NO - 3 [S.C. 11]	61160	9	Beneficiary Led Construction	2015-16 to 2021-22
FETESHA BUSTEE - 1 [S.C. 12]	87210	9	Beneficiary Led Construction	2015-16 to 2021-22
FETESHA BUSTEE - 2 [S.C. 13]	112600	45	Beneficiary Led Construction	2015-16 to 2021-22
MADHYAPARA [S.C. 14]	26030	27	Beneficiary Led Construction	2015-16 to 2021-22
BANSBAGAN NO - 1 [S.C. 15]	22190	9	Beneficiary Led Construction	2015-16 to 2021-22
1 NO JHILPARA [S.C. 33]	5563	9	Beneficiary Led Construction	2015-16 to 2021-22
Mistripara [S.C-036]	1000	31	Beneficiary Led Construction	2015-16 to 2021-22
		1421		

Note: * Please mention source of data

** Please mention (i), (ii), (iii) or (iv) as per the case or combination thereof

Table 3. Year-wise Proposed Interventions in Slums

Year	Number of Beneficiaries and Central Assistance Required (Rs. in Crores)													
	Redevelopment thru Private Partner Participation*			Beneficiary-led Construction			Credit Linked Subsidy**			Affordable Housing in Partnership			Total	
	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount
2015-16	NIL	NA	NA	41	142	2.13	NIL	NA	NA	NIL	NA	NA	142	2.13
2016-17	NIL	NA	NA	41	426	6.39	NIL	NA	NA	NIL	NA	NA	426	6.39
2017-18	NIL	NA	NA	41	426	6.39	NIL	NA	NA	NIL	NA	NA	426	6.39
2018-19	NIL	NA	NA	40	142	2.13	NIL	NA	NA	NIL	NA	NA	142	2.13
2019-20	NIL	NA	NA	39	142	2.13	NIL	NA	NA	NIL	NA	NA	142	2.13
2020-21	NIL	NA	NA	39	72	1.08	NIL	NA	NA	NIL	NA	NA	72	1.08
2021-22	NIL	NA	NA	39	71	1.065	NIL	NA	NA	NIL	NA	NA	71	1.065
Total	NIL	NA	NA	41	1421	21.315	NIL	NA	NA	NIL	NA	NA	1421	21.315

* Each benefeciary at the rate of one lakh each, **Each Beneficiary at the rate of 1.5 lakh each, *** Just put number of beneficiaries, amount is not required,**** Affordable Housing in Partnership @ 1.5 lakh each

Table 4: Year-wise Proposed Interventions for Other Urban Poor based on demand survey

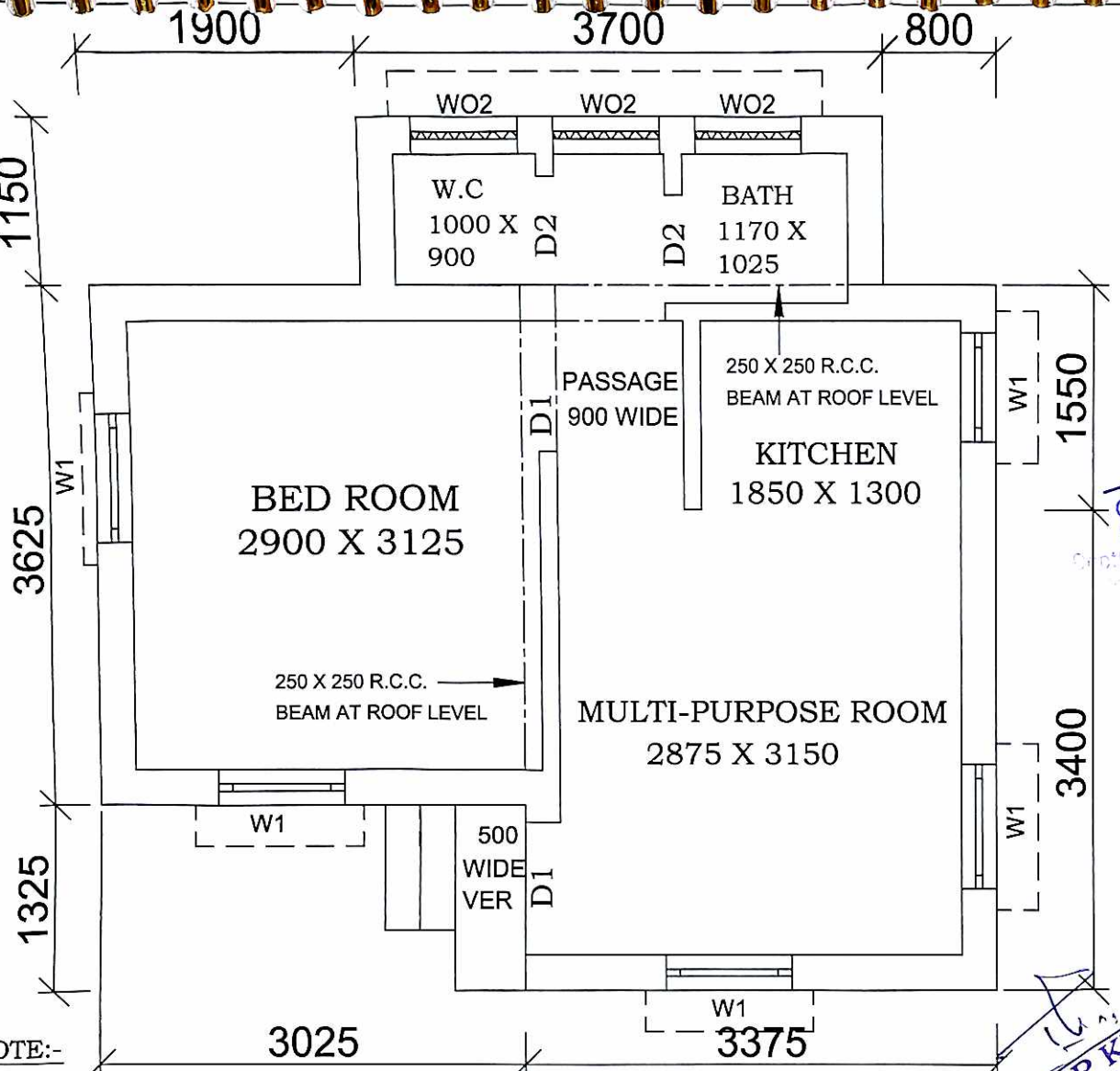
Year	Number of Beneficiaries and Central Assistance Required (Rs. in Crores)									
	Beneficiary-led Construction		Credit Linked Subsidy		Affordable Housing in Partnership		Future Urban Poor Projection		Total	
	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount
2015-16	66	0.99	0	0	0	0	173	2.595	66	0.99
2016-17	198	2.97	0	0	0	0	173	2.595	371	5.565
2017-18	198	2.97	0	0	0	0	173	2.595	371	5.565
2018-19	66	0.99	0	0	0	0	173	2.595	239	3.585
2019-20	66	0.99	0	0	0	0	173	2.595	239	3.585
2020-21	34	0.51	0	0	0	0	173	2.595	207	3.105
2021-22	33	0.495	0	0	0	0	173	2.595	206	3.09
Total	661	9.915	0	0	0	0	1211	18.165	1699	25.485

Table 5: Year wise Target under Different Components

Interventions		Number of Beneficiaries and Central Assistance Required (Rs. in Crores)														Total	
		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22			
		No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Redevelopment through Private Participation	Slums	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subsidy for beneficiary-led/ improvement of existing house	Slums	142	2.13	426	6.39	426	6.39	142	2.13	142	2.13	72	1.08	71	1.065	1421	21.315
	Non-Slums	66	0.99	198	2.97	198	2.97	66	0.99	66	0.99	34	0.51	33	0.495	661	9.92
Credit linked subsidy to individual beneficiaries	Slums	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Non-Slums	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Affordable Housing in Partnership (AHP)	Slums	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Non-Slums	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Future Projected Urban Poor Projection	NA	0	0.000	173	2.595	173	2.595	173	2.595	173	2.595	173	2.595	173	2.595	1038	15.57
Total		208	3.12	797	9.36	797	9.36	381	3.12	381	3.12	279	1.59	277	1.56	3120	46.8

Signature
(State Level Nodal Officer)

Signature
(Secretary/Principal Secretary, Concerned Department)



NOTE:-

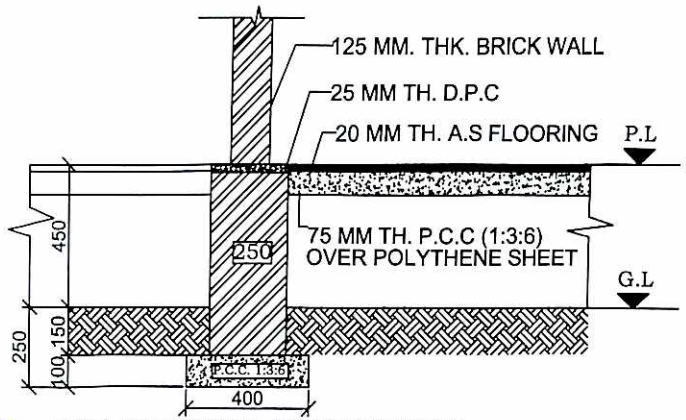
1. ALL WINDOW OPENINGS (W1&W2) WILL BE PROVIDED WITH Z-BATTEN SHUTTERS.
2. ALL DOORS (D1&D2) -25TH Z-BATTERN SHUTTERS, SINGLE LEAF.
3. WO2 - OPENING PROVIDED WITH R.C.C. JALLI.
4. PLINTH HEIGHT - 450 TH.
5. CEILING HEIGHT - 2750 TH.
6. MAIN WALL - 250 TH.
7. PARTITION WALL - 125 TH.
8. ROOF SLAB, BEAM, LINTEL, ETC. WITH REINFORCED CEMENT CONCRETE M20 GRADE.
9. FLOOR OF VERANDAH, WC, BATH, & KITCHEN ROOM TO BE KEPT 15 MM BELOW THE FLOOR LEVEL OF ROOM & PASSAGE.
10. 100 MM TH. PIECE LINTEL OVER OPENING HAVE BEEN PROVIDED.
11. ALL DIMENSION ARE IN MM.

DOORS & WINDOWS SCHEDULE	
MARKING	DIMENSION
WI	900 X 900
W2	750 X 900
WO2	750 X 750
DI	900 X 2100
D2	750 X 2100

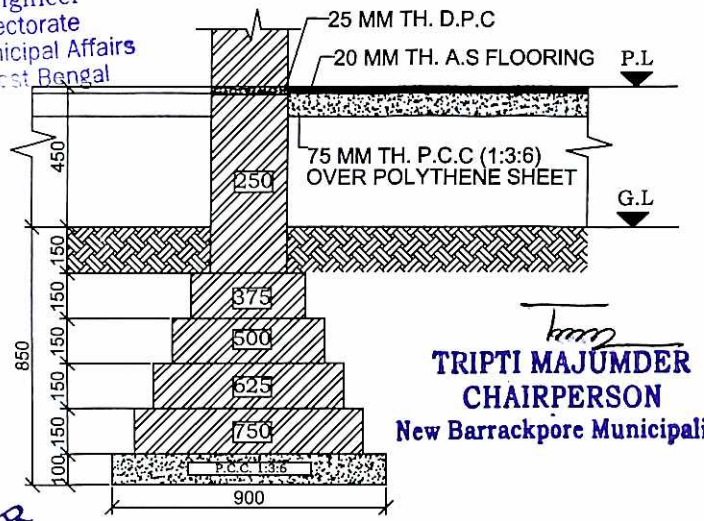
FLOOR AREA - 25.77 SQM.

BUILT UP AREA - 32.58 SQM.

FOUNDATION DETAILS



125 MM THK. BRICK WALL



250 MM THK. BRICK WALL

Chief Engineer
M.E. Directorate
Deptt. of Municipal Affairs
Govt. of West Bengal

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

TRIDIP KR. KAR
Assistant Engineer
New Barrackpur Municipality

PRADHAN MANTRI AWAS YOJANA

HOUSING FOR ALL (URBAN)

OFFICE OF THE CHIEF ENGINEER

MUNICIPAL ENGINEERING DIRECTORATE

GOVT. OF WEST BENGAL

DWG. NO.

SCALE :- 1:50 & 1:25

DETAILED ESTIMATE FOR THE CONSTRUCTION OF SINGLE UNIT DWELLING HOUSE

Pradhan Mantri Awas Yojana Housing For All (Urban)

Total Covered Area- 32.58 sq.m (With Electrical Works)

Referance of Schedule of Rates : PWD (W.B.), Schedule of Rates Building & Sanitary w.e.f-01.07.2014 & Corrigenda

Floor Area 25.77 sqm

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	Earthwork in excavation in foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing spreading or stacking the spoils within a lead of 75 m as directed including trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete. a) Depth of excavation not exceeding 1500mm . **SOR, PWD, P-1, I -2 a**	13.000	%cu.m.	12047.00	1566.11
2	Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete.(Payment to be made on the basis of measurement of finished quantity of work) a) With earth obtained from excavation of foundation. **SOR, PWD, P-1, T/3 a**	11.120	%cu.m	7831.00	870.81
3	Supplying Laying Polithin Sheets etc. **SOR, PWD, P-45, T - 13**	22.000	sqm	25.00	550.00
4	Cement concrete with graded Stone ballast (40 mm.) excluding shuttering.a) In ground floor and foundation.6 : 3 : 1 proportion Pakur variety **SOR, PWD, Page 24 ; Item -10 a**	3.500	cu.m.	5823.00	20380.50
5	25 mm. thick damp proof with cement concrete (4:2:1) (with graded stone aggregate 10 mm. Normal size) and painting the top surface with a coat of bitumen using 1.7 kg. per sq.m. including heating the bitumen and cost and carriage of all materials complete. **SOR, PWD, P-45, T-12**	6.810	sqm,	297.00	2022.57
6	Brick work with 1st class bricks in cement mortar (6:1) a) In foundation and plinth. b) In super structure **SOR, PWD, P-29, T -22(a), (b)**	10.430 15.240	cum cum	5719.00 5943.00	59649.17 90571.32
7	125mm thick brick work with 1st. class bricks in cement mortar (4:1). a) In ground floor **SOR, PWD, P-73, I -29**	23.220	sq.m.	783.00	18181.26
8	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (i) Pakur Variety **SOR, PWD, P-14, T -7(i)**	3.940	cu.m.	6851.66	26995.54
9	Reinforcements for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16G black annealed wire at every inter-section, complete as per drawing and direction. (a) For works in foundation, basement and upto roof of ground floor / upto 4m. (i) Tor steel/Mild steel. **SOR, PWD, P-27, T -15(i)**	0.309	MT	60705.93	18775.74
10	Hire and labour charges for shuttering with centreing and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works. (upto roof of ground floor). (When the height of a particular floor is more than 4 m. the equivalent floor ht. shall be taken as 4 m. and extra for works beyond the initial 4 m. ht. shall be allowed under 12(e) for every 4 m. or part thereof.) **SOR. PWD. P-66. T -12(a)** 25 mm. to 30 mm. thick wooden shuttering as per decision & direction of Engineer-in-charge. Ground Floor	37.063	M^2	360.00	13342.68

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
11	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating, nosing and drip course where necessary . In ground floor. A) With 6:1 cement mortar. a) Inside wall 20 mm thick plaster **SOR, PWD, P-151, T -2 (i)(b)**	116.940	sq.m.	181.00	21166.14
	b) Out side Wall, 15mm th. **SOR, PWD, P-151, I -2 (i)(c)**	111.950	sq.m.	156.00	17464.20
	B)10mm th celling plaster (4:1) **SOR, PWD, P-151, I -2 (i)(c)**	23.330	sq.m.	140.00	3266.20
12	Neat cement punning about 1.5mm thick in wall, dado, window, sills, floor, drain etc. **SOR, PWD, P-152, I -8**	26.700	sq.m.	38.00	1014.60
13	Artificial stone in floor,dado, staircase etc. with cement conctrete (4:2:1) with stone chips laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (2:1) including smooth finishing and rounding off corners and including application of cement slurry before flooring works, using cement @ 1.75 kg./sq.m. all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted) with ordinary cement. 20mm thick **SOR, PWD, P-40, I -3 (i)**	26.490	sq.m.	265.00	7019.85
14	Supplying, fitting & fixing MS clamp for fixing door and window frame made of flat bent bar, end bifurcated, fixed in cement concrete with stone chips (4:2:1)a fitted and fixed omplete as per direction. 40mm x 6mm x 125 mm length. (Cost of cement concrete will be paid separately) **SOR, PWD, P-90, I -18 (c)**	34	each	22.00	748.00
15	Wood work in door and window frame fitted and fixed complete including a protective coat of painting at the contact surface of the frame other Local wood **SOR, PWD, P-85, T -1(i)**	0.213	cu.m.	46171.00	9834.42
16	Panel Shutter of door & Window (each Panal Consisting Of single Plan without Join) 25 mm thick shutter with 12 mm thick Panal of size 30 to 45 cm. Other Local wood **SOR, PWD, P-105, I -84 (iv)c**	8.520	sq.m.	1567.00	13350.84
17	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. a)75mm x 47mm x 1.70mm **SOR, PWD, P-91, T -20(iv)**	32.000	each	34.00	1088.00
18	Iron Socket Bolt of approved quality fitted and fixed complete. i) 150 mm long x 10 mm dia **SOR, PWD P-93, I-25,c**	11.000	each	71.00	781.00
19	White washing including cleaning and smoothening surface thoroughly (5 parts of stone lime and 1 part of shell lime should be used in the finishing coat). Two Coats **SOR, PWD, P-155, I -3 (b)**	124.960	%sq.m.	1887.00	2358.00
20	Colour washing with ella with a coat of white wash priming including cleaning and smoothing surface thoroughly external surface One Coat **SOR, PWD, P-155, I - 4(ii)(a)**	100.560	%sq.m.	1514.00	1522.48
21	Priming one coat on timber, plastered or on steel or other metal surface with synthetic enamel/oil bound primer of approved quality including smoothening surfaces by sand papering etc. 1) On timber surface **SOR, PWD, P - 162, I - 7(a)**	21.690	sq.m.	41.00	889.29
	2) On Steel Surface **SOR, PWD, P - 162, I - 7(b)**	2.700	sq.m.	31.00	83.70
22	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : With super gloss (hi-gloss)-With any shade except white. a) On timber or plastered surface Two Coats	21.690	sq.m.	89.00	1930.41
	b) On Steel surface Two Coats **SOR, PWD, P - 162, - 8A(aii),(bii)**	2.700	sq.m.	86.00	232.20

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
23	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16 mm diad with center bolt and round fitting. 300 mm long **SOR, PWD, P-93, I - 27c**	2.000	each	193.00	386.00
24	Precast piered concrete jally work as per design and manufacture's specification including moulding etc. with stone chips and necessary reinforcement shuttering complete including fitting, fixing in position in all floors. (a) 37.5 mm th. panels Cement & steel required for this item **will not be** issued by deptt. **SOR, PWD, P-32, I - 38 (b)**	1.690	sq.m.	351.00	593.19
25	Supplying, fitting and fixing UPVC down pipes A type and fittings conforming to IS 13592-1992 with necessary clamps nails including making holes in walls, etc. and cutting trenches in any soil, through masonry concrete structure etc. if necessary and mending good damages including jointing with jointing materials (Spun yarn, valamoid / bitumen / M. seal etc.) complete. **P-173, I-21 A (ii), C(ii), D(ii)** **SOR, PWD, P173, I - 21 A (ii), C(ii), D(ii)**				
	i) UPVC Pipe 110 mm dia	3.000	Mtr.	291.00	873.00
	ii) UPVC Bend 87.5 degree 110 mm dia	2.000	each	162.00	324.00
	iii) UPVC Shoe 110 mm	1.000	each	128.00	128.00
26	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. Grill weighing 10 kg/sq m to16 kg/m2 **SOR, PWD, P - 76, I - 10 (i)** ***(2.70sqm @ 10.5kg per sqm = 28.35 kg)***	0.284	Qntl	8247.00	2342.15
27	Shallow water closet Indian pattern(I.P.W.C.) of approved make in white vitreous chinaware supplied ,fitted and fixed in position (excluding cost of concrete for fixing). 450 mm long **SOR, PWD, (Sanitary) P - 65, I - 1 (iii)**	1.000	each	1062.00	1062.00
28	Foot rest for water closet of size 275 mm X 125 mm with Artificial stone(4:2:1) with 6 mm stone chips and chequered including adding colour as necessary. **SOR, PWD, (Sanitary) P - 66, I - 9**	1.000	Pair	70.00	70.00
29	Supplying,fitting and fixing cast iron 'P' or 'S' trap conformimg to I.S. 3989 / 1970 and 1729 / 1964 including lead caulked joints and painting two coats to the exposed surface. S Trap 100 mm **SOR, PWD, (Sanitary) P - 54, I - 14(B-iii)**	1.000	each	923.00	923.00
30	Supplying, fitting fixing CI Round Gratings 150mm dia **SOR, PWD, (Sanitary) P - 55, I - 18(ii)**	1.000	Each	100.00	100.00
	Construction of 2 circular leach pit of inside diameter 1000 mm. & a depth of 1000 mm. With a layer of 250 mm. Thick brick work with cement morter (6:1) & honeycombed brick wall (4:1) at every alternate layer upto a height of 925 mm. From bottom and then 125 mm. thick brick wall (4:1) for a height of 300 mm. and covered with 75m. RCC slab (4:2:1) with 8mm tor steel @ 150 mm. centre to centre both ways including plustering and neat cement punning on top of the slab and making hooking arrangment on slab for lifting of the slab if require as well as jointing the connection with the inspection pit (450 x 450) covered with 50mm thick RCC slab (4:2:1) with stone chips and necessary renforcement and connected with 100 mm dia PVC pipe laid over rammed earth and then covered the pipe properly with powder earth including supplying fitting fixing fibre glass pan P-tap & polythene pipe as per requirement to connect with the inspection pit complete with all respect as per direction of EIC.(ANNEXURE-II)	1	Item	7544.00	7544.00
	TOTAL AMOUNT		**Rs.**		**350000.36**
	Say		**Rs.**		**350000.00**
	Add for Electrical Works (ANNEXURE-I)		**Rs.**		**17858.00**
	TOTAL AMOUNT		**Rs.**		**367858.00**
	(Rupees Three lakh Sixty seven thousand Eight hundred & Fifty eight only)				

TRIDIP KR. KAR
Assistant Engineer
New Barrackpur Municipality

Chief Engineer
M. E. Directorate
Deptt. of Municipal Affairs
Govt. of West Bengal

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

ESTIMATE FOR ELECTRICAL WORKS FOR ONE DWELLING UNIT UNDER PRAY

(ANNEXURE-I)

Sl.No.	SOR	Item of works	Unit	Rate	Quantity	Amount
1	PWD/Vol-I (Aug 2008) A/1(b)/E-9	Supplying & fitting polythene pipe complete with fittings as necessary. Under celing /beam/bound with 22SWG GI wire inclusive S & Drawing 1x18 SWG GI wire as fish wire inside the pipe & fittings and providing 55 mm dia disc of MS sheet (20SWG) having colour paint at one face first ended at the load point end of the polythene pipe with fish wire (synchronizing with roof/beam casting work of building construction) 19 mm dia 3 mm thick polythene pipe	RM	39.00	25.00	975.00
2	PWD/Vol-I (Aug 2008) A/1(m)/E-17	Powerckt wiring supplying and drawing 1 ; 1KV grade single core stranded FR PVC insulated & unseathed single core stranded Copper wire (Finolex make) 2 x 2.5 sqmm (PH & N) +1x1.5 sqmm (ECC) per laid polythene pipe and by the prelaid GI fish wire & making necessary connections as required.	RM	76.00	50.00	3800.00
3	PWD/Vol-I (Aug 2008) A/1/2 (a- i)/E-17	Concealed Distribution wiring in in 2x1.5 sqmm single core standard *FR* insulated and unseathed cop per wire Finolex make & 1x1.5 sq mm single core stranded PVC cinsulated and unseathed cop per (Finolex make) wire used as ECC in 19 mm bore 3 mm thk. polyythene pipe complete with all accessries embedded in wall smooth run to light / fan/call bell point with pino key type switchb (6 Amps) **(Anchor** make) fixed on sheet metal (16 SWG) Switch Board with bakelite/ perspex (wall maching colour) Top cover (3 mm thick) flushed in wall including mending all good damages to original finish Average per point 6.00 mt.	points	828.00	10.00	8280.00
4	PWD/Vol-I (Aug 2008) A/4 (a-i)/E-18	Deistribution concealed wiring with 2x1.5 sq mm (PH & N) single core stranded FR PVC insulated & unsheathed single core sttranded 1.1 KV grade Copper Wire (finolex) & 1x1.5 sq mm (ECC) single core stranded (PH & N) 1.1 KV grade cu wire (finolex) & 1 x 1.5 sq mm single core stranded PVC insulted & unsheathed cu wire (finolex) used as ECC in 19 mm bore, 3 mm thick polythene pipe complete with all accessories embedded in wall 250 volt 5 amp 3 pin plug point including S & F 250 Volt 5 amp 3 pin flush type plug socket & piano key type swich (Anchor make) on **existing switch board as mentioned sl. no.3**	points	76.00	2.00	152.00
5	PWD/Vol-I (Aug 2008) E-17, A 1-e	Supplying & drawing 1.1 KV grade single core srtanded FR PVC insulated & unseathed single core sranded cu Wire 3x2.5 sq mm (finolex make) in the prelaid polythene pipe & by the prelaid GI fishwire & making necessary connection as required **(CESC supply to consumer DP near to CESC & inside the room another DP near CESC & inside the room another DP of dwelling units)**	RM	86.00	15.00	1290.00
Sl.No.	SOR	Item of works	Unit	Rate	Quantity	Amount

Sl.No	SOR	Item of works	Unit	Rate	Quantity	Amount
6	KMC 2008-09)A/(1/e) p/(h)	Supplying Delivery & instalation on wall of 30/32 amp DP MCBof Havel's make with enclosed box along with all its necessary 1 connection complete.(Anchor)	nos	808.00	2	1616.00
7	PWD/Vol-I (Aug 2008) 2(a) G-1	Earthing in soft soil with 50 mm dia GI pipe (TATA make Medium) 3.64 mm th. X 3.04 Mtr long and 1 x 4 SWG GI (hot dip) wire (4 m long) 13 mmdia x 80 mm long GI bolts, double nuts, double washer including S & F 15 mm dia GI protection (1 mtr long) to be filled with bitumen partlyunder the ground level & partly above GL driven to an average depth of **3.65 m** below the GL & restoring surface duly rammed.	each	1715.00	1	1715.00
8	PWD/Vol-I (Aug 2008) 5(a-iv) G-3	Connecting the equipment to earth BUSbar inclussive S&F 10 SWG (Hot Dip) GI wire on wall /floor with a staples buried inside wall /floor as required & making connection to equipments with bolt, nut, washer, cable lugs etc. as required & mending good damages.	M	6.00	5	30.00
				TOTAL		17858.00
Rupees Thirteen Thousand Eight Hundred Seventy Eight Only						**17858.00**

TRIDIP KR. KAR
Assistant Engineer
New Barrackpur Municipality

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

Detailed Estimate for Single Dwelling unit
Floor area 25.36 sqm Built up area 32.18 sqm

	C/L of main outer wall				125 mm Partitionwall			Varandah C/L		
		4.65			3.375			1.275		
		0.8			1.15			0.9		
		1.15			1.15	2.3		2.175		
		3.45			2.187					
		1.15			1.9					
		1.7			1.387	5.474				
		3.375			11.149					
		1.275								
		2.825								
		3.125								
		23.5								
	X wall	1.25								
Sl.no.										
1	Earth workin excavation									
	250 mm wall									
	1	23.5	0.75	0.7	12.34					
		0.875	0.75	0.7	0.46					
		24.375			12.8	m3				
	125 mm Wall									
		2.625	0.4	0.225	0.24					
	WC	0.4	0.4	0.225	0.04					
	Bath	0.65	0.4	0.225	0.06					
	5.474	0.75		0.225						
		4.724	0.4	0.225	0.43					
	Varanda	1.425	0.4	0.225	0.13					
					0.88					
	Step	0.5	0.9	0.075	0.034					
					13.715	m3				
2	Soling									
		24.375	0.75		18.281					
		11.45	0.4		4.58					
					22.861					
3	Polythene sheet									
		2.575	3.125		8.047					
		2.875	2.625		7.547					
		2	1.65		3.3					
	passage	0.625	2.375		1.484					
	Bath&WC	2.7	0.9		2.43					
	Varndah	1.025	0.6		0.615					
	step	0.9	0.5		0.45					
					23.873					
4	Jhama concrete									
			18.28	0.075	1.371					
			4.58	0.075	0.344					
			23.93	0.075	1.795					
					3.51					
5	Earth work in filling 1/5 excavation									
			13.715	5	2.743					
			23.48	0.375	8.805					
					11.548	m3				

6	B.W (6:1) in Foundation of plinth								
		23.5	0.625	14.6875					
		23.5	0.5	11.75					
		23.5	0.375	8.8125					
				35.25	0.15	5.288			
		23.5	0.25		0.525	3.084			
	X wall	0.938	0.625	0.586					
		1	0.5	0.5					
		1.063	0.375	0.399					
				1.485	0.15	0.223			
		1.125	0.25		0.525	0.148			
	125mm	3.125	0.25		0.525	0.41			
	Bath&WC	2	0.9	0.25	0.523	0.235			
	Kit	5.224	0.25		0.525	0.686			
	Vard	1.925	0.25		0.525	0.253			
	Steps	0.5	0.9		0.15	0.068			
		0.25	0.9		0.15	0.034			
						10.427	m3		
7	DPC	23.5							
		1.125							
		24.625		0.25		6.156			
		3.125							
		1.8							
		5.224							
		10.149		0.125		1.269			
						7.425			
	Less	0.9		0.25	0.225				
		0.9		0.125	0.113				
	3	0.75		0.125	0.281				
						0.619			
						6.806	sqm		
8	BW in super structure (6:1)								
		23.5							
		1.125							
		24.625	2.75	0.25	16.93				
	Parapet	23.8	0.075	0.25	0.446				
						17.376			
	Less opens								
	1	0.9	2.1	1.89					
	4	0.9	0.9	3.24					
	1	0.75	0.9	0.675					
	3	0.75	0.75	1.688					
				7.493	0.25	1.873			
	Lintel								
	1	1.525	1.525						
	4	1.2	4.8						
	1	1.05	1.05						
			7.375	0.25	0.1	0.184			
	Wo2								
	1	3.05	3.05	0.25	0.1	0.076			

					(-)	2.134			
	Net brick work						15.242	m3	
9	125 th. Brick work (6:1)								
	room		3.125	2.6	8.125				
	kit		2.125	2.75	5.844				
			1.65	2.75	4.5375				
			1.45	2.65	3.8425				
	2		0.9	2.1	3.78				
						26.12875			
	Less opening								
	1	0.9	0.9						
	3	0.75	2.25						
			3.15	2.1	6.615				
	Lintel								
	1	1.3	1.3						
	1	1.025	1.025						
			2.325	0.1	0.2325				
					6.8475				
						19.28125			
	Parapet								
		23.5		0.15		3.525			
						22.806			
	passege	0.75		0.55		0.4125			
						23.219	sqm		
10	Conc M-20								
	Roof slab								
	32.15	1.1475	31.003		0.1	3.1			
	Beam		3.625	0.25	0.15	0.136			
			2.575	0.25	0.1	0.064			
	Lintel						3.301		
	D1	1	1.525	1.525					
	W1	4	1.2	4.8					
	W2	1	1.05	1.05					
	WO2	1	3.05	3.05					
				10.425	0.25	0.1	0.261		
	D1	1	1.39	1.39					
	D2	1	1.025	1.025					
	D2	2	1.4	2.8					
	O2	1	0.875	0.875					
	D2	2		6.09	0.125	0.1	0.076		
	Chaja								
	W1	4	1.2	4.8					
	W2	1	1.03	1.03					
	D1	1	1.275	1.275					
	W02	1	3.05	3.05					
				10.155	0.3	0.075	0.228		
							3.866	m3	
11	Reinforcement								
		3.866	0.80%	1	7850	0.243	MT		

12	Shuttering								
	31	23.5	1.125						
			24.63	0.25					
	31			6.156	24.844				
	Side beam	2	3.125	0.15	0.9375				
		2	2.325	0.1	0.465				
	side slab	1	25.3	0.1	2.53				
	Lintel	1	0.9	0.25	0.225				
		1	1.525	0.1	0.153				
		1	1.275	0.35	0.446				
		1	0.3	0.05	0.015				
						29.615	sqm		
	4W1	4	0.9	0.25	0.9				
		4	1.2	0.1	0.48				
		4	1.2	0.35	1.68				
	2	4	0.3	0.05	0.12				
	1W2	1	0.75	0.25	0.188				
		1	1.05	0.1	0.105				
		1	1.05	0.35	0.368				
	2	1	0.3	0.05	0.03				
	WO2	3	0.75	0.25	0.563				
	1	1	3.05	0.1	0.305				
		1	3.05	0.35	1.068				
	2	1	0.3	0.05	0.03				
	Lintel 125 Wall								
	D1	1	0.9	0.125	0.113				
		2	1.3	0.1	0.26				
	D2	2	0.75	0.125	0.188				
	2	2	1.15	0.1	0.46				
	D2	2	0.75	0.125	0.188				
		2	1.9	0.1	0.38				
						7.423			
						37.038	sqm		
13	Plaster (6:1)								
	Out side 15 mmth.								
			2.85	1.125	0.45				
		25.3			4.425	111.953	sqm		
	Inside 20 mm th.								
	2	2.7	3.125	2.75	32.038				
	2	2.875	2.625	2.75	30.25				
	2	2	1.65	2.75	20.075				
	2	2.075		2.75	11.413				
	Above lintel								
	1	0.75		0.65	0.488				
	Bath								
	2	0.9		2.75	4.95				
	WC								
	1	2.95		2.75	8.113				
	1	2.25		2.75	6.188				
	4	2.2		0.9	7.92				
	T. 125 wall								

	2	0.9		0.125	0.225				
						121.658			
	Open out side less								
	3	0.75		2.1	4.725				
					(-)	4.725			
						116.933	sqm		
	Celling Plaster				24.47				
	Less				1.14				
						23.33	Sqm		
14	Neat cement punning								
	Out side	Plinth							
		25.3	0.45			11.385	Sqm	11.385	
	Inside		2.7	3.125					
		2		5.825	0.1	1.165	Sqm		
			2.875	2.625					
		2		5.5	0.1	1.1	Sqm		
	Kithen		2	1.65					
		2		3.65	0.45	3.285	Sqm		
		1		1.65	0.45	0.743	Sqm		
		2		2.075	0.1	0.415	Sqm		
	Varanda			1.775	0.1	0.178	Sqm		
	step WC	1		3	0.45	1.35	Sqm		
	Bath			3.5	2	7	Sqm		
				0.75	0.1	0.075	Sqm		
	In side punning						15.31	15.31	
	Total							26.695	Sqm
15	Art. Stone flooring								
	Floor area					25.37	sqm		
	Step	2	0.9	0.25		0.45			
	W1	4	0.9	0.1		0.36			
	W2	1	0.75	0.1		0.075			
	W3	3	0.75	0.1		0.225			
							26.48	Sqm	
16	Ms Clamp for door & window								
	D1+D2	4	6			24			
	W1+W2	5	2			10			
							34	nos.	
17	Wood work in Door & window frame								
	D1	2	5.1	10.2					
	D2	2	4.95	9.9					
	W1	4	3.6	14.4					
	W2	1	3.3	3.3					
				37.8	0.075	0.075	0.213	m3	
18	Z batten shutter								
	D1	2	0.775	2.025		3.139			
	D2	2	0.625	2.025		2.531			
	W1	4	0.775	0.775		2.403			
	W2	1	0.775	0.625		0.484			
							8.557	sqm	
19	Iron Butt Hinges								

	D1+D2					12			
	W1	4	4			16			
	W2	1	4			4			
							32	nos.	
20	Iron soket bolt								
	Door			6					
	Window			5					
							11	nos.	
21	White wash								
	Inside+Celling Plaster- inside punning								
			116.933	23.33	15.31		124.953	sqm	
22	Colour wash								
	Out side Plaster- out side punning								
			111.953	11.385			100.568	sqm	
23	Priming on timber sutrface								
	2	2	0.9	2.1		7.56			
	2	2	0.75	2.1		6.3			
	4	2	0.9	0.9		6.48			
	1	2	0.75	0.9		1.35			
							21.69	sqm	
24	Painting best quality on wooden surface								
	same sl.no. 23						21.69	sqm	
25	MS ornamental gril....10Kg-16 Kg								
	W1	4	0.75	0.75	2.25				
	W2	1	0.75	0.6	0.45				
					2.7				
					@12Kg/sqm		32.4	Kg	
26	Priming on Steel sutrface						2.7	sqm	
27	Painting best quality on steel surface						2.7	sqm	
	same sl.no. 24								
28	R.C.C. Shelf								
		1.75	0.5				0.875	sqm	
29	Roof treatment with cow dang								
				32.18					
	Deduct	1.14	(varanda)	1.14					
	Cornice	25	0.125	3.125					
				27.915			27.915	sqm	

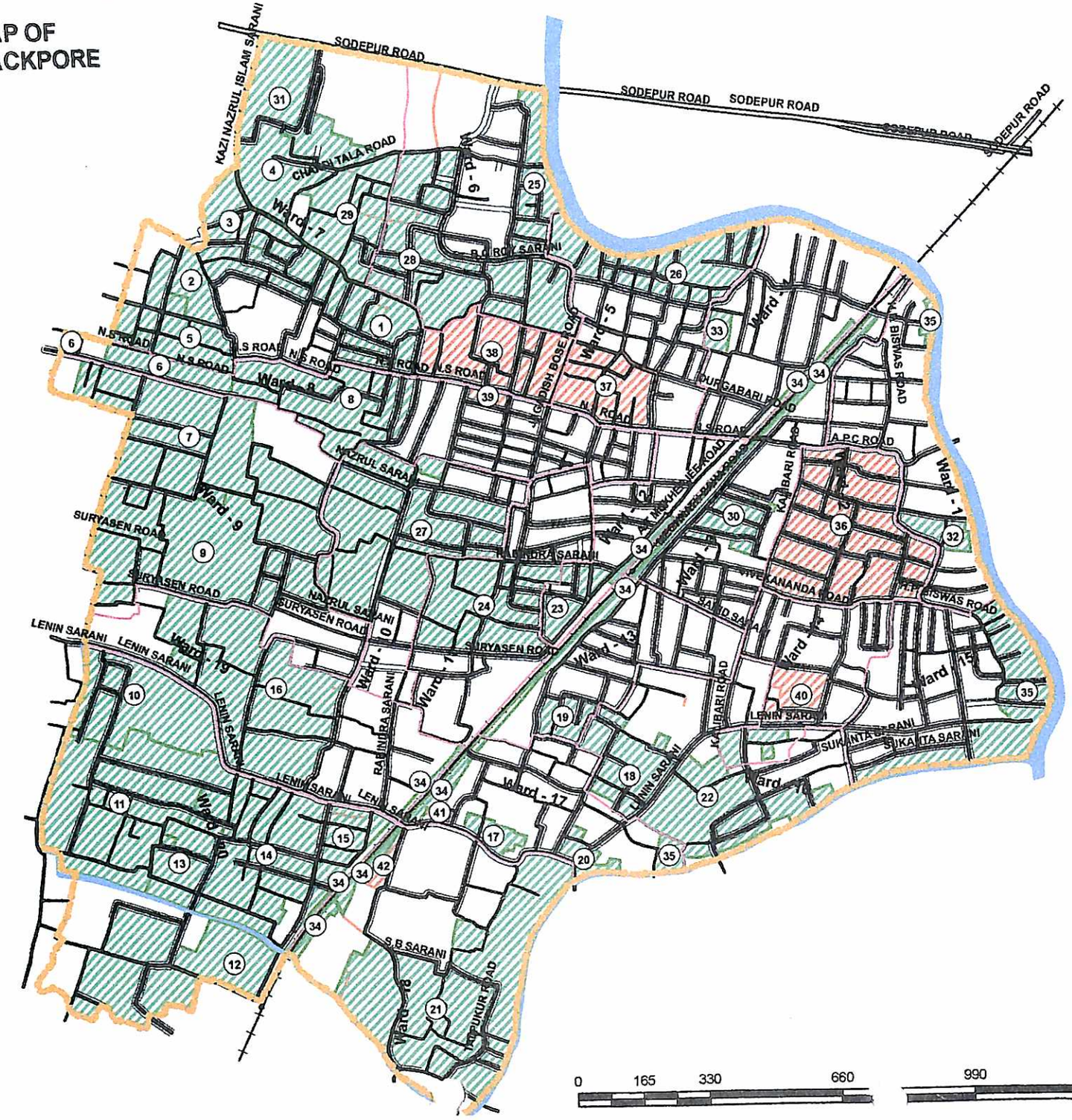
Cost Estimate for 2 Nos Leach Pit for single unit Dwelling Unit
P.W.D Schedule of Rates effect from 1st July 2014

(ANNEXURE-II)

Sl No	Description of Items	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches leveling dressing and ramming the bttom boiling out water aqs requred complete . Depth of exavation not existing 1500mm **P.No-1, I-2(a)**	2.500	%Cu.M	12047.00	301.18
2	Cement concrete with graded jhama Khoa ballast (30 mm size) excluding shuttering. In ground floor and foundation (a) 6:3:1 proportion.	0.050	Cu.M	5803.06	290.15
3	Brick work with 1st class bricks in cement mortar (6 :1). a) In foundation & Plinth **P.no-29, I-21(a)**	0.010	Cu.M	5719.00	57.19
4	125 mm. thick brick work with 1st class bricks in cement mortar (4 : 1) G.Floor	3.000	SqM	714.00	2,142.00
5	Controlled Cement concrete with well graded stone chips (20 - mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per I : 456 and relevant special publications submission of job mix formula after preliminary mlx design after testing of concrete cubes as per direction of Engineer-in charge Consumption of cement will not be less than 300 Kg of cement -with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on- the basis of preliminary test and job mix formula. -I n ground floor and foundation. [Using concrete mixture] M 20 Grade	0.145	Cu.M	6871.54	996.37
6	Reinforcemnet for reinforced concrete work in all sorts of structures incl. Distribution bars, stirrups, binder etc. incl. supply of rods, initial straightening & removal of loose rust (if necessary), cutting to requisite length, hooking etc **P.no-27, I-15(a)(i)**	0.010	M.T	68508.00	685.08
7	Supplying, fitting and fixing UPVC down pipes A type and fittings conforming to IS 13592-1992 with necessary clamps nails including making holes in walls, etc. and cutting trenches in any soil, through masonry concrete structure etc. if necessary and mending good damages including jointing with jointing materials (Spun yarn, valamoid / bitumen / M. seal etc.) complete.				
	i) UPVC Pipe 110 mm dia	4.000	Mtr	291.00	1,164.00
	ii) UPVC Bend 87.5 degree 110 mm dia **P.no-174, I-21(B)C(ii)**	2.000	Each	162.00	324.00
8	Jaffri brick work 125 mm. thick with 1st class bricks in cement mortar (4:1) including 12 mm. thick cement plaster (4:1) in all faces in ground floor **.P.no-32, I-35**	2.000	SqM	792.00	1,584.00
				Cost of 2 no leach pit	**7,543.97**
				Total=	**7,544.00**

TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

SLUM MAP OF NEW BARRACKPORE



TRIPTI MAJUMDER
CHAIRPERSON
New Barrackpore Municipality

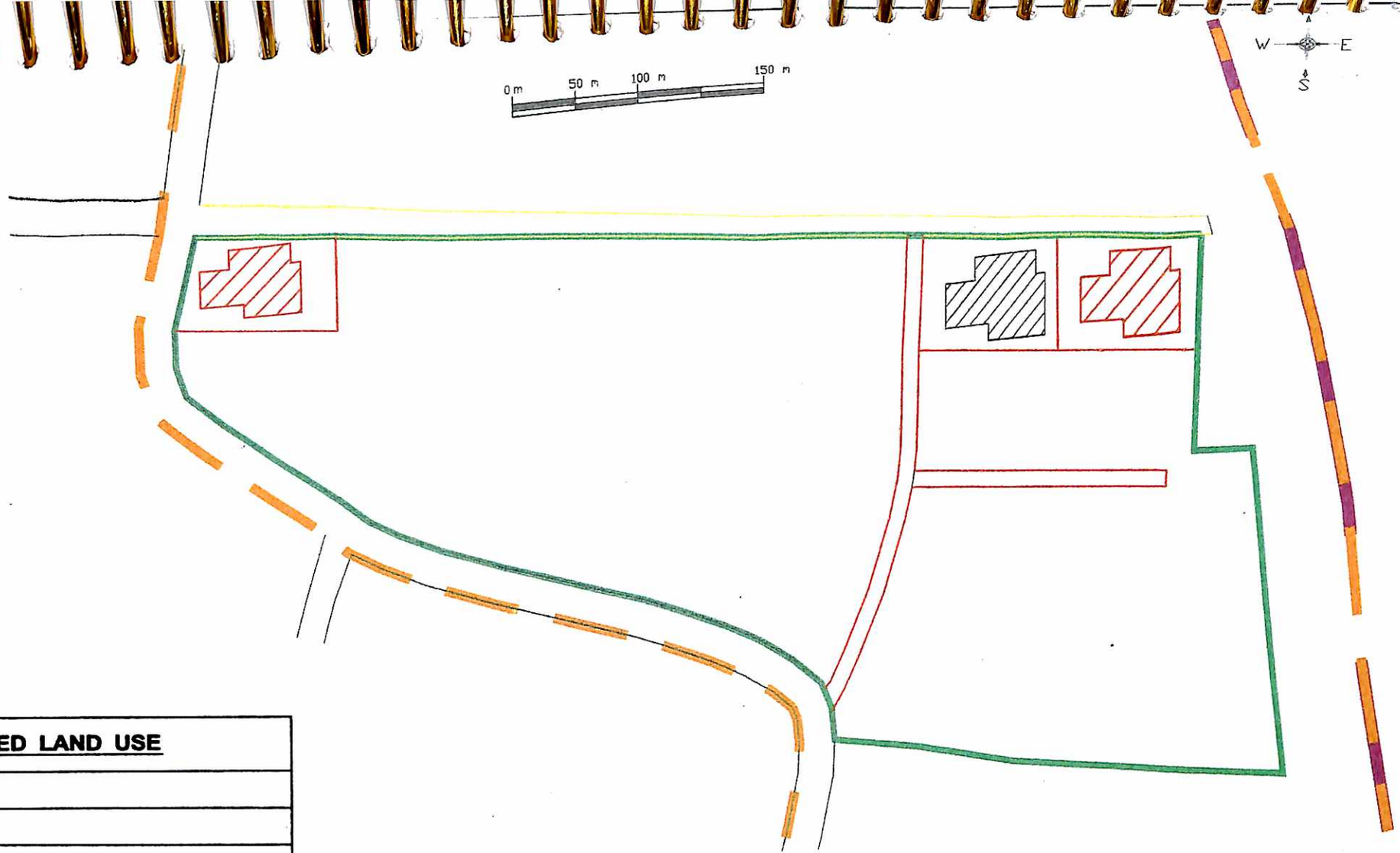
SLUM CODE	NOTIFIED SLUM NAME
1	Burir Bari No. 1
2	Burir Bari No. 2
3	Burir Bari No. 3
4	Burir Bari No. 4
5	Chasipara Bustee-2
6	Chasipara-2
7	Chasipara-2
8	Ambagan
9	Dhakipara
10	Chasipara No. 1
11	Chasipara No. 3
12	Fatesha Bustee-1
13	Fatesha Bustee-2
14	Madhyapara
15	Bansbagan No. 1
16	Bansbagan No. 2
17	Lichubagan Bustee
18	Sabjibagan (w-5)
19	Sabjibagan (w-6)
20	Sabjibagan
21	Talpukur para
22	Sabjibagan No. 2
22	Sabjibagan No. 2
23	Lowland Bustee-1
24	Lowland Bustee-2
25	Sjirhat No. 1
26	Sjirhat No. 2
27	South Masunda
28	Kalabagan Bustee
29	Kalabagan Bustee
30	Chandrapally para
31	Collegepara
32	Mistripara
33	1 No. Jhilpara
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
34	Railway Land Bustee
35	Irregation Land/canal bustee
35	Irregation Land/canal bustee
35	Irregation Land/canal bustee
POINT NO	NON - NOTIFIED SLUM NAME
36	Mistripara
37	kamargati Para
38	Bagha Jatin Para
39	Janata Road
40	Arabinda Bastee
41	Kodalia Natun Bazar Slum
42	Tarun Sangha Khelar Math Bustee

LEGEND

- MUNICIPAL BOUNDARY
- CANAL
- WARD BOUNDARY
- ROAD
- DRAIN

SLUM BOUNDARIES

- NON-NOTIFIED
- NOTIFIED
- RAIL
- PIPE LINE



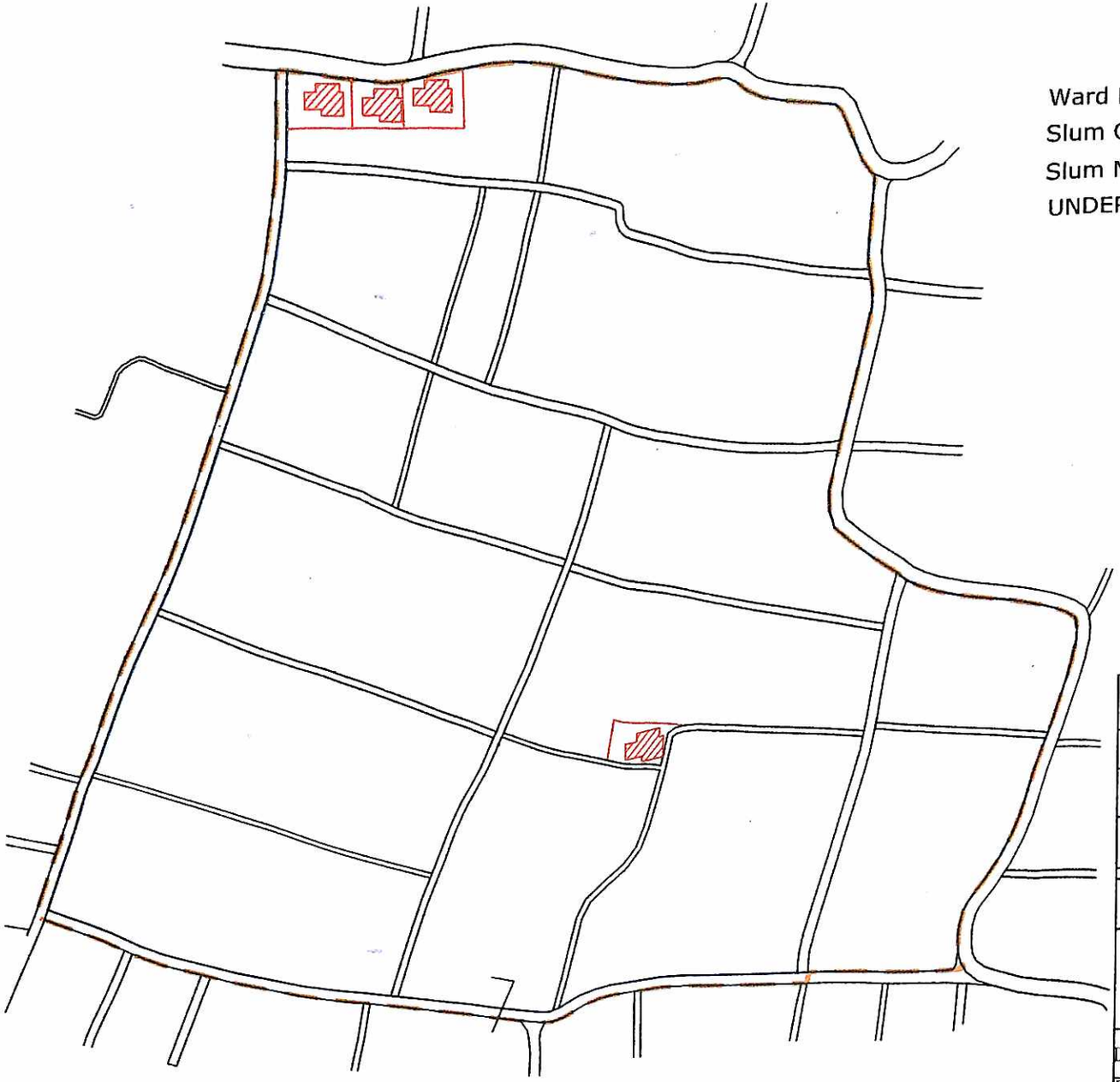
PROPOSED LAND USE			
AREA OF SLUM :			
POPULATION :			
CLIENT :NEW BARRACKPORE MUNICIPALITY			
LEGEND			
ITEMS	SEMI PUCCA	KUCHHA	
	SYMBOL	SYMBOL	QTY
DWELLINGHOUSE(NOS)			3
BLACK TOPPED ROAD			
CONC. ROAD (PROP.)			
CONC. ROAD (EXIST.)			

Ward No:- 1

Slum Code:- 32

Slum Name:- Mistripara

UNDER PRADHAN MANTRI AWAS YOJONA (PMAY)



Ward No:- 2

Slum Code:- 36

Slum Name:- Mistripara

UNDER PRADHAN MANTRI AWAS YOJONA (PMAY)

PROPOSED LAND USE

AREA OF SLUM :

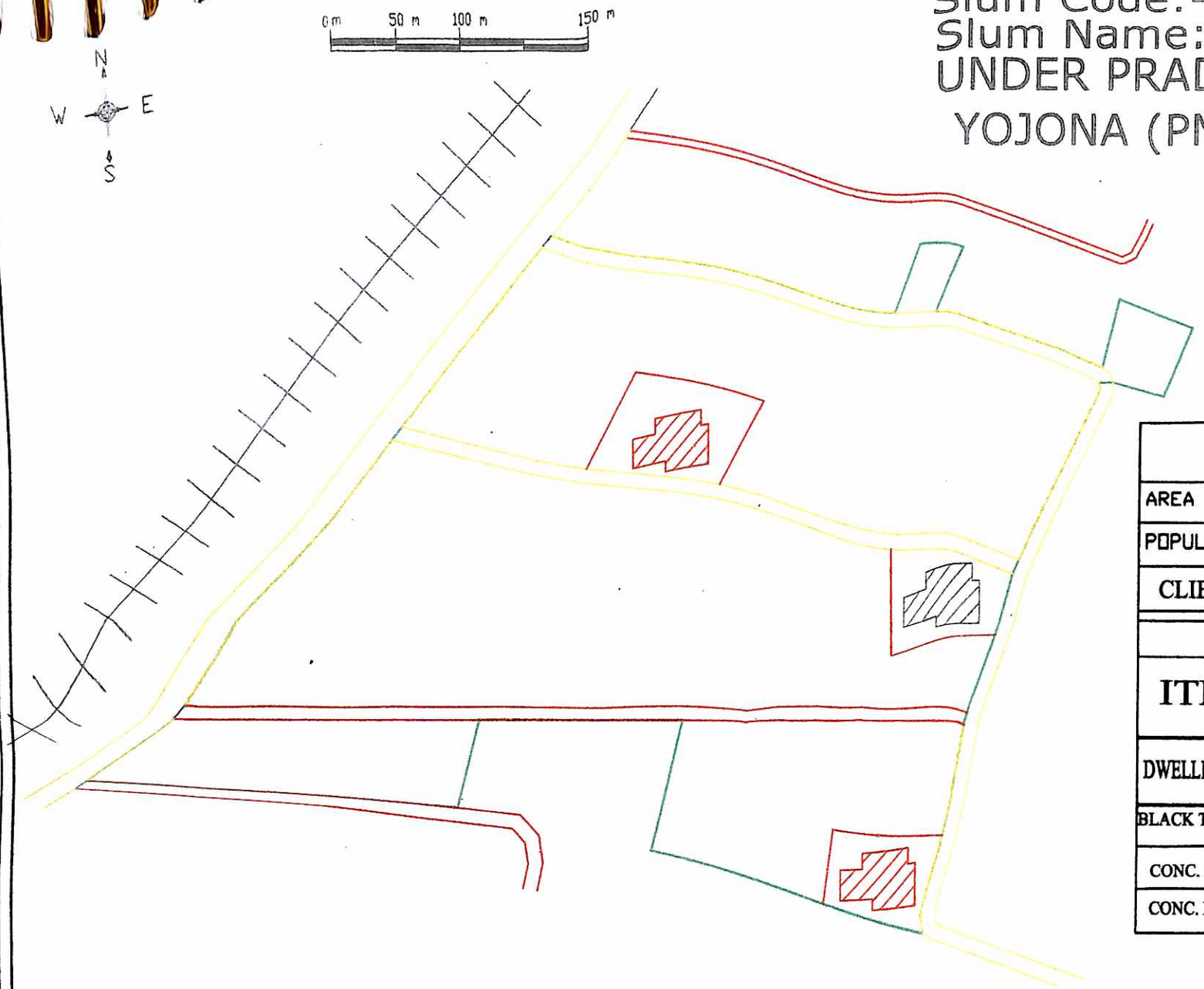
POPULATION :

CLIENT :NEW BARRACKPORE MUNICIPALITY

LEGEND

ITEMS	SEMI PUCCA	KUCHHA	
	SYMBOL	SYMBOL	QTY
DWELLINGHOUSE(NOS)			3
BLACK TOPPED ROAD			

Ward No:-3
Slum Code:- 30
Slum Name:- Chandrapally Para
UNDER PRADHAN MANTRI AWAS YOJONA (PMAY)



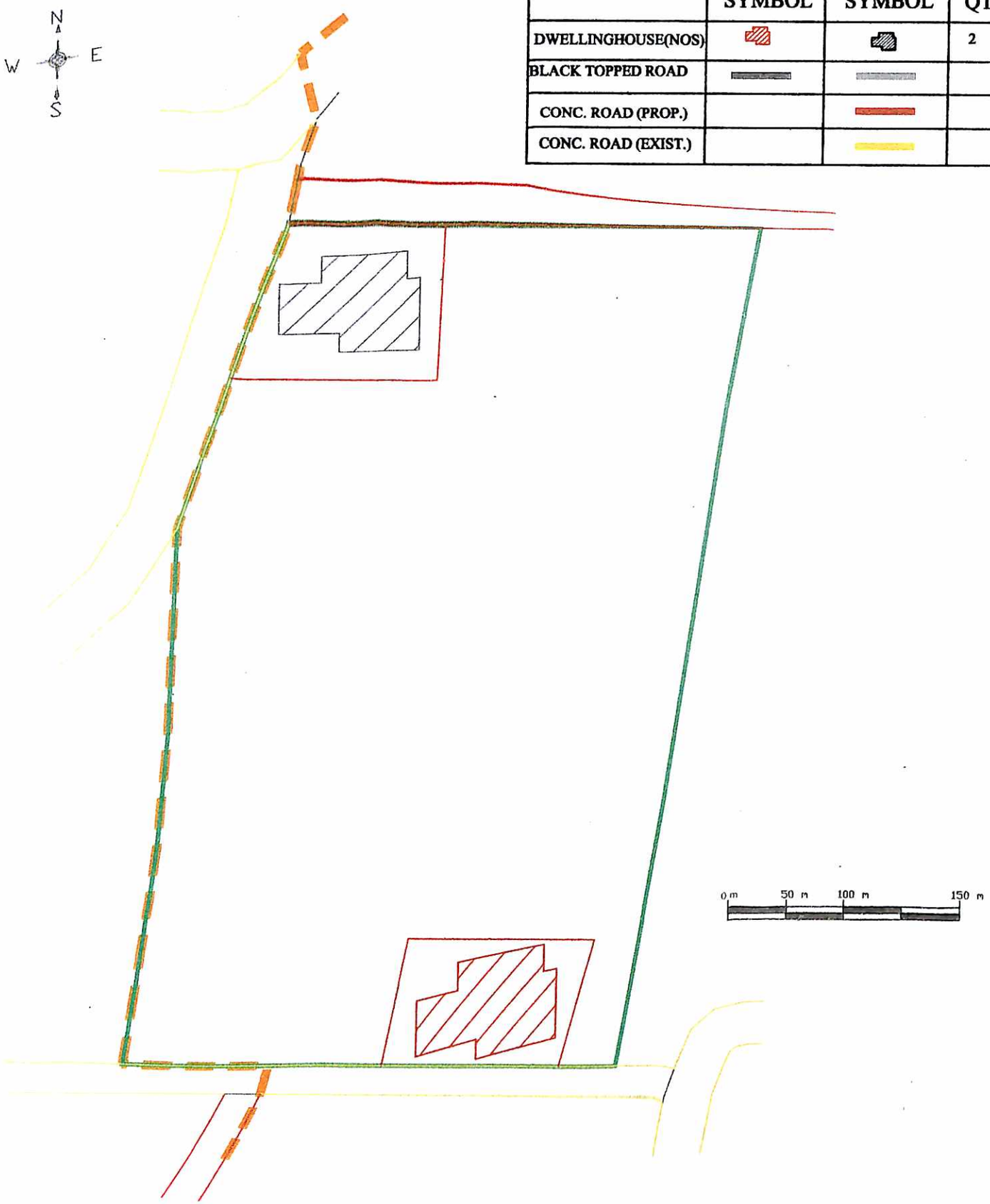
PROPOSED LAND USE			
AREA OF SLUM :			
POPULATION :			
CLIENT :NEW BARRACKPORE MUNICIPALITY			
LEGEND			
ITEMS	SEMI PUCCA	KUCHHA	
	SYMBOL	SYMBOL	QTY
DWELLINGHOUSE(NOS)			3
BLACK TOPPED ROAD			
CONC. ROAD (PROP.)			
CONC. ROAD (EXIST.)			

Ward No:- 4
Slum Code:- 33
Slum Name:-1 No Jhilpara
UNDER PRADHAN MANTRI
AWAS YOJONA (PMAY)

PROPOSED LAND USE			
AREA OF SLUM :			
POPULATION :			
CLIENT :NEW BARRACKPORE MUNICIPALITY			

LEGEND

ITEMS	SEMI PUCCA	KUCHHA	
	SYMBOL	SYMBOL	QTY
DWELLINGHOUSE(NOS)			2
BLACK TOPPED ROAD			
CONC. ROAD (PROP.)			
CONC. ROAD (EXIST.)			



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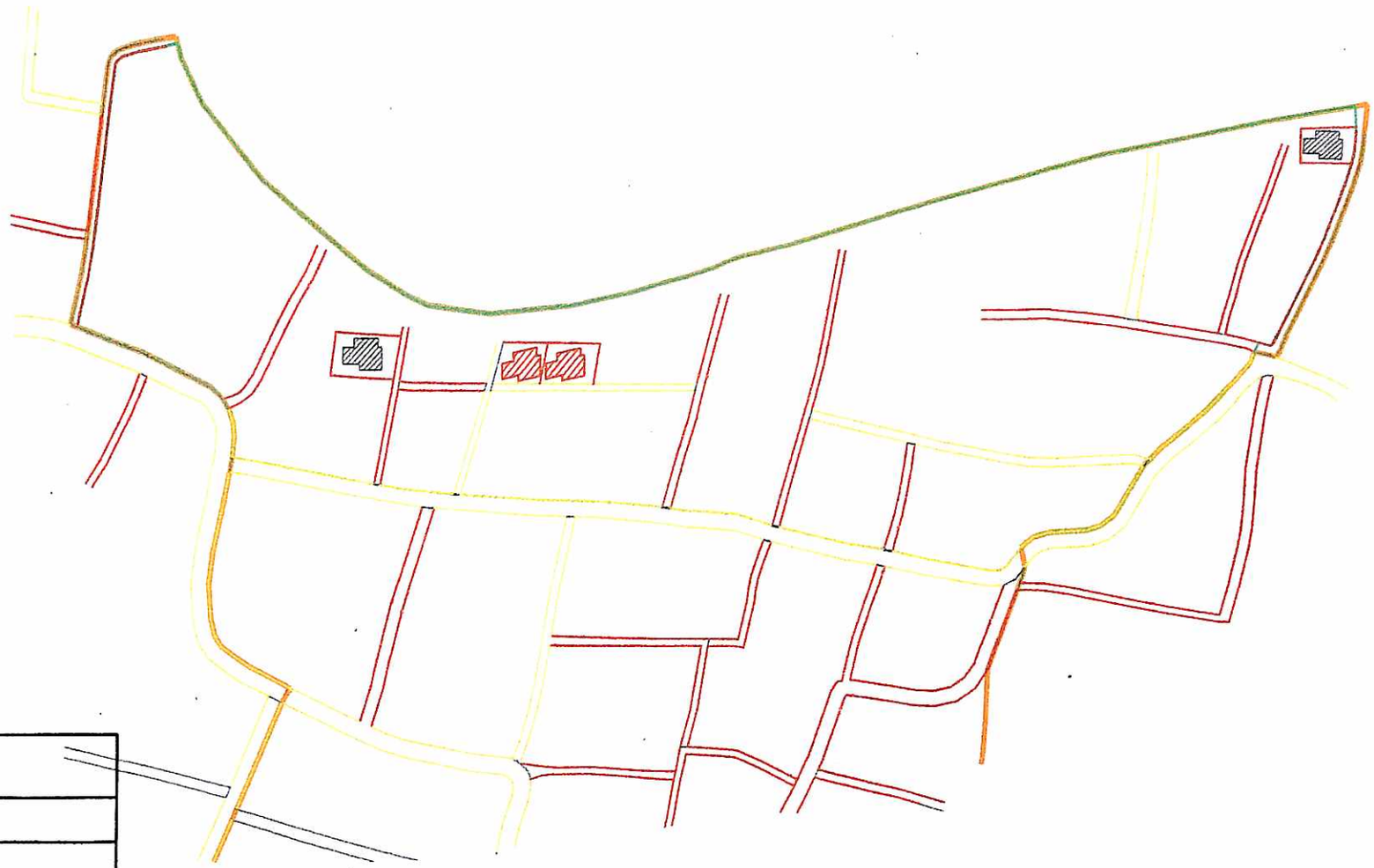

0 m 50 m 100 m 150 m

PROPOSED LAND USE			
AREA OF SLUM :			
POPULATION :			
CLIENT :NEW BARRACKPORE MUNICIPALITY			
LEGEND			
ITEMS	SEMI PUCCA	KUCHHA	
	SYMBOL	SYMBOL	QTY
DWELLINGHOUSE(NOS)			4
BLACK TOPPED ROAD			
CONC. ROAD (PROP.)			
CONC. ROAD (EXIST.)			

Ward No:- 5
Slum Code:- 26
Slum Name:- Sajirhat No. 2
UNDER PRADHAN MANTRI AWAS YOJONA (PMAY)