#### F.No. N-11011/51/2016-HFA-2/FTS-17061 Government of India Ministry of Housing & Urban Poverty Alleviation (HFA Mission Directorate)

Nirman Bhawan, New Delhi Dated: 11<sup>th</sup> April, 2017

To

400

All Principal Secretaries/Secretaries (States/UTs), Housing & Urban Development Department.

Subject: Draft reference Guide for Third Party Quality Monitoring under PMAY (U) – HFA Mission – reg.

Sir,

You are aware that effective monitoring of ongoing projects(s) is a key to successful completion of any project with monitoring of quality being most significant aspect.

- 2. The PMAY scheme guidelines envisage that "States/UTs would engage Third Party Quality Monitoring Agencies (TPQMA) to ensure quality of construction under various components of the Mission. States/UTs should draw up their quality monitoring and assurance plans involving third party agencies. Such plan will include the visits by third party agencies to the project site and to advise State and Urban Local Bodies/Implementing Agencies on quality related issues. On the basis of quality assurance report by such agencies, States and ULBs/IAs should take both preventive and curative measures to ensure that standard quality houses and infrastructure are constructed under the mission.
- 3. Government of India will provide assistance to implement third party quality monitoring mechanism by sharing the cost on 75:25 basis and in case of NE and special category states on 90:10 basis.
- 4. It is also envisaged in the guidelines that before releasing the 2<sup>nd</sup> instalment, CSMC may check the quality of houses being constructed on random basis or houses or specific project through technical institutions along with reports of TPQMA selected by the State for quality monitoring purpose.
- 5. To guide the States/UTs, a Reference Guide for Third Party Quality Monitoring (TPQM) has been prepared. The draft of Reference Guide has been hoisted on the Ministry's websire <a href="www.mhupa.gov.in">www.mhupa.gov.in</a>.
- 6. It is requested that suggestions/comments on the Reference Guide may be conveyed to the Ministry through email to <a href="mailto:dirhfa1-mhupa@gov.in">dirhfa1-mhupa@gov.in</a> within 15 days so that the Reference Guide may be finalized.

Yours sincerely,

Director (HFA-I)

Tel:011- 23062279

## PRADHANMANTRI AWAS YOJANA (PMAY)

# REFERENCE GUIDE FOR THIRD PARTY QUALITY MONITORING



Ministry of Housing and Urban Poverty Alleviation

Government of India

#### **Preface**

Government of India has launched a comprehensive mission "Pradhan Mantri Awas Yojana- Housing for All (Urban)". 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
- 2. Promotion of Affordable Housing for weaker section through credit linked subsidy
- 3. Affordable Housing in Partnership with Public & Private sectors
- 4. Subsidy for beneficiary-led individual house construction/enhancement

Further details of the programme are available at the website www.mhupa.gov.in.

Central Assistance for PMAY projects would be sanctioned by Central Sanctioning and Monitoring Committee (CSMC) after Detailed Project Reports (DPRs) are appraised by State Level Appraisal Committee (SLAC) of the State/UTs and approved by State Level Sanctioning and Monitoring Committee (SLSMC).

PMAY scheme guidelines envisage that the States/UTs would engage Third Party Quality Monitoring Agencies (TPQMA) to ensure quality of construction under the above verticals of the Mission except Credit Linked Subsidy (CLS).

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### Abbreviations

АНР	Affordable Housing in Partnership
AQMP	Annual Quality Monitoring Plan
BLC	Beneficiary Led Construction
CLSS	Credit linked subsidy scheme
CLTC	City Level Technical Cell
DA	Development Authority
DBT	Direct Benefit Transfer
DPR	Detailed Project Report
EWS	Economically Weaker Section
GoI	Government of India
HFA	Housing for All
HFAPoA	Housing for All Plan of Action
НВ	Housing Board
IA	Implementing Agency
IS	Indian Standards
ISSR	In- Situ Slum Redevelopment
LIG	Low Income Group
MoHUPA	Ministry of Housing and Urban Poverty Alleviation
PMAY	Pradhan Mantri Awas Yojana
SLNA	State level Nodal Agencies
SLSMC	State Level Sanctioning and Monitoring Committee
SLTC	State Level Technical Cell
TPQMA	Third Party Quality Monitoring Agency
UC	Utilisation Certificate
UIT	Urban Improvement Trust
ULB	Urban Local Body
UT	Union Territory

## **Third Party Quality Monitoring**

Effective monitoring of ongoing project(s) is a key to successful completion of any project with monitoring of quality being most significant aspect. A State level mechanism for Third Party Quality Monitoring of projects sanctioned under PMAY shall be evolved with the following objective:

- 1. Review and monitoring of quality of all PMAY projects implemented by ULBs/ Implementing Agencies.
- 2. Provide a structured report on the quality of projects under PMAY.

States/UTs should draw up their quality monitoring and assurance plans involving third party agencies. Such plan will include the visits by third party agencies to the project site and to advise State and Urban Local Bodies/ Implementing Agencies on quality related issues. On the basis of quality assurance report by such agencies, States and ULBs/IAs should take both preventive and curative measures to ensure that standard quality houses and infrastructure are constructed under the mission.

Annual Quality Monitoring Plans should be submitted to Mission Directorate for the approval of CSMC after taking approval of State Level Sanctioning and Monitoring Committee. Format for the AQMP is at **Annexure-1**.

#### 1.1 Roles and Responsibilities

#### A. State Level

It is envisaged that a State Level Technical Cell (SLTC) established in each State Level Nodal Agency (SLNA) will provide strategic coordination and support for all PMAY related activities in the State/UTs. The SLTC within the SLNA will play the key role of coordination and overseeing of the TPQMA on behalf of the SLNA in following areas:

- Appoint a suitable agency with the required experience and expertise as the TPQMA ensuring no major deviation in the scope of services and no conflict of interest in execution of services.
- Communicate through SLNA to all Urban Local Bodies/ Implementation Agencies for organizing field visits of TPQMA.
- Ensure the performance of TPQMA is as envisaged in the contract, and that the reports are submitted for record and necessary action.
- Review and scrutinize the reports submitted by TPQMA, examine the issues highlighted by the TPQMA and initiate corrective actions where necessary with concerned ULB/Implementing Agency.
- Make periodic payments to the TPQMA.

#### B. ULB/IA Level

It is envisaged that a City Level Technical Cell (CLTC) established in the ULBs/IA of the Mission Cities, shall be responsible for proper implementation of all PMAY projects including quality control. The CLTC will play the key role of coordination and overseeing of the TPQMA on behalf of the ULB/IA in following areas:

- Schedule the visits of the TPQMA across different projects in the city.
- Ensure that TPQMAs have access to the required documents, project sites, key
  officials for meetings and discussions and other support required.
- Ensure that TPQMAs file their reports in a timely manner i.e. within a week time after the visit.
- Examine the reports of the TPQMA and the issues highlighted therein.
- On the basis of TPQMA's reports, take corrective measures for improving quality.

#### C. TPQMA Level:

The TPQMA will undertake field visit for ascertaining quality of construction at various stages of construction (preferably at the beginning i.e. 10-15 % of progress, mid of

construction i.e. 50-60 % of progress and completion i.e. 85-100 % of progress) with the objectives as under:

- Schedule the field visits in the Cities across the State/UT after proper coordination at State/ ULB level.
- Examine project documentation with respect to sanctioned covenants.
- Review of land requirement/ availability, Site preparation & other statutory clearances.
- Review of Project Implementation Plan and procurement process.
- Review of approved quality monitoring plan.
- Review of Safety and Health aspects.
- Examine Convergence with the Central/ State scheme.
- Beneficiary participation/ satisfaction in the project.
- Report on Quality Assurance. (indicative formats are at Annexure-2 & 3)
- Remedial measures to improve quality of the project.
- File report in a timely manner.
- Follow-up action of the report, which would be ascertained in the next report.

#### 1.2 Selection Process

Third Party Quality Monitoring Agencies (TPQMA) should be selected by the SLNA of the States/UTs through open and transparent bidding process.

#### SLNA shall ensure that:

- 1. TPQMA should have experience of similar kind of works.
- 2. TPQMA should not have incurred any loss for the last 3 years.
- 3. TPQMA deploys optimum number of experts as per the need of the projects.
- 4. Deployed experts have experience of similar kind of projects and expertise in the concerned sectors. A suggestive structure is at *Annexure-4*
- 5. No Conflict of interest prevails in the engagement.
- 6. The Terms of Reference (TOR) are as per the prescribed Scope & Deliverables.

Conflict of interest for a TPQMA is defined as:

- Any agency involved as a consultant in project preparation, supervision or implementation work in any of the PMAY projects applying for TPQMA is a conflict of interest in the particular project/City/State (as the case may be)
- The team members of TPQMA should not have been an employee of any City or State level government agency in that particular State in preceding 2 years of this contract.
- The agency black listed or debarred by the Government would not be eligible for TPQM.

#### 1.3 Central Assistance

Government of India will provide assistance (amount as notified) to implement third party quality monitoring mechanism by sharing the cost on 75:25 basis; and in case of NE and special category states on 90:10 basis. Ministry will share expenses for three visits only of TPQMA to each project. However, States/UTs may decide more visits on any project. The expenses will be reimbursed by the Ministry of HUPA to the State on submission of the certificate as per prescribed format as per **Annexure-5** and utilization certificate duly signed by competent authority.

#### 1.4 Annexure-1

#### Format for Annual Quality Monitoring Plan for the year......

Name of State/UT						
·						
No of towns under PMAY						
No. of projects proposed under PMAY*	ISSR	AHP	BL	C(N)	BLC(E)	Total
(* As per HFAPoA/AIP)						
No. of projects approved under PMAY						
B. Desk review/ Field visits proposed			1		1	
Category of project	No.	of vis	its	No.	of	visits
	for	ea	ch	prop	osed	during
	proje	ct		the y		
"In situ" Slum Redevelopment (ISSR)						
Affordable Housing in Partnership (AHP)						
Beneficiary Led Construction (BLC) (New)						
Beneficiary Led Construction (BLC) (Enhancement)						
C. Others						
Fees proposed/ approved for each visit of TPQMA under each category of projects. (Rs. Lakhs)						
Total Fees proposed/ approved in the year(Rs. Lakhs)						
Whether same or different agencies have been proposed/selected for TPQM						
Whether transparent competitive bidding process has been adopted/ envisaged for the selection of TPQM Agency						

Signature ( State Level Nodal Officer) Signature ( Secretary/Principal Secretary, Concerned Department)

## 1.5 Annexure 2

## Third Party Quality Monitoring Report of ISSR/AHP projects under PMAY

Name of TPQM Agency	
Date of Visit	
Current Visit No.	
Previous visit with date	

Α.	PARTICULARS OF PROJECT						
1.	Name of the State /UT:						
2.	Name of the City:						
3.	Name of Project:						
4.	Project Code:						
5.	Implementing Agency (ULB/ DA/ HB/ UIT/ Slum Rehabilitation Agency)						
6.	Location of the Project ( Slum name, Ward etc. as applicable)	(Annexe	e details ir	n case of r	nulti	ple sites)	
7.	Type of Project :(i) In-situ Slum redevelopment (ISSR) (ii) Affordable Housing in Partnership (AHP)						
8.	Total Houses (EWS/LIG/MIG/HIG) in the project.						
9.	No. of EWS Houses in the project						
10.	Description of Work.  i. Carpet/ Built up area of EWS house ii. No. of EWS houses in one block iii. No. of blocks iv. Total no. of houses v. Type of Structure (G,G+1,G+2 etc.) vi. No. of storeys / floor.						
11.	Date of Approval of project by SLSMC						
12.	Approved Project Cost (Rs. Lakhs):	Central share	State share	ULB/ Implement agency sh		Beneficiary share	Total
13.	Date of sanction of 1st instalment of central assistance by CSMC						
14.	Duration of Project						
15.	Date of Award of work	(Annex	e details ir	n case of n	nulti	ple contrac	ts)
16.	Date of commencement	,	Schedule	d		Actual	
			21 11	1			
17.	Date of completion		Schedule	1		Expecte	a
18.	Inspection undertaken by ( Name)	1.					

19. Name of State representative present during visit 20. Name of UB representative present during visit 21. Name of Contractor's representative present during visit 22. Name of Community representative present during visit 23. Whether list of Beneficiaries finalised/ partially finalised/ not finalised 24. If finalised, whether uploaded in PMAY MIS 25. State any deviation from sanctioned DPR in terms of number of houses or size or location or Layout 26. Compliance of Tender conditions matching to statutory requirements of DPR w.r.t. a. Compliance to time limit. b. Compliance to price escalation. c. Compliance to price escalation. c. Compliance to legal clauses. d. Compliance to penalties. 27. Any other comment  8. HEALTH & SAFETY ASPECTS (ON STE) 1. Whether the drinking water facility is provided on site? 2. Whether there are adequate no. of toilets provided & maintained for site staff / Workers? 3. Whether there is a board indicating the safety norms to be observed? 4. Whether the use of following is being done by site staff i. Safety Shoes iii. Safety Goggles iv. Safety Jackets 5. Whether safety railings & safety tapes have been provided around excavation trenches / upper floors/ducts/litt well? 6. Whether approved quality & type shoring-strutting-scaffolding are provided for excavation trenches/Pits/Building work? 7. Whether 'FIRST AID' kit is available at site? 8. Whether 'Blasting' is being done on site? If yes, whether necessary permissions have been obtained and required precautions have been taken for control blasting?		(with contact detail):	2.
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10. Whether any Safety-Officer is employed?	9.	whether necessary permissions have been obtained and required precautions have been taken for control blasting?	
	10.	Whether any Safety-Officer is employed?	

11.	Any other comment	
C	QUALITY ASSURANCE IN THE PROJECT	
1.	Whether authenticated copy of DPR, contract document, structural drawings and copies of specifications are available at site?	
2.	Whether the Inspection Registers, Site order book and Quality control Test registers are maintained at the site properly and endorsed by the Engineer–in-charge?	
3.	Whether list of ISI marked/approved materials to be used is available at site?	
4.	Is there a provision in Contract/Tender to provide 'Test facilities on site"?	
5.	Whether testing facilities to check quality of material is available at site ? if yes attach list of Equipments	
6.	(i) Whether the structural Designs are approved / Proof checked by competent Authority (ii) Name of the approving authority for	
	structural design.  (iii) Whether the statuary certificate for disaster resistance design and compliance of codal provision is endorsed by the structural designer on the structural drawings fit for execution, specially in case of multistoreyed construction.	
	(iv) The work is being executed as per the approved drawings fit for execution.	
7.	Whether manufacturer test certificate for cement, steel, pipes etc. have been obtained with supply and records are being maintained?	
8.	Whether all mandatory tests of construction material, road work, sanitary work, plumbing work, electrical work and concrete in foundations, beams, columns and slabs etc are carried out at stipulated frequency?	
9.	Whether regular tests of materials and construction products are being got done from accredited labs also ? If yes, details of such labs	
10.	Whether soil investigations of the site proper have been done before the structural design and soil parameters have been accounted for in the structural design/ drawings? If yes, attach copy of soil investigation report.	
11.	Whether centring /shuttering is checked for staging & propping, line & level, dimensions, cleaning etc. and its quality approved before each stage and record maintained.	

10	Specific control on DCC work like mixing by full	
12.	Specific control on RCC work like: mixing by full	
	bag capacity hopper fed mixer, control of slump,	
	placing/ compaction with vibrator.	
	(proportioning with boxes not permitted)	
13.	Whether cement register is maintained and	
	checked at site. Comment on method of stacking.	
14.	Whether concrete mix is nominal or design mix?	
	(Nominal mix not permitted for quality concrete).	
15.	What is the Mode of Concrete mixing (batch mix/	
	manual)? In case of manual mixing, whether	
	mixing is by weight or by volume of ingredients?	
	(Volumetric mixing not permitted).	
16.	Whether Mixer/Vibrator as specified is available	
	at site with adequate means to run them during	
	concreting?	
17.	Whether RMC is being used in work? If yes, detail	
-/ -	of control and checks done at plant site.	
	Comment on Quality of aggregates ,Slump test,	
	Cube test etc.	
18.	Suitability of water for construction	
10.	i. What is the source of water	
	ii. Has water been tested and approved	
	by Engineer-in-charge before	
	construction	
	iii. Has water been tested subsequently as	
	per Requirement	
19.	Quality of work and workmanship, Comments on	
- ).		
	i. RCC work (concrete, Reinforcement detailing,	
	cover to reinforcement). Whether Columns are in	
	plumb (check for verticality).	
	ii. Masonry (Joint details, verticality). Check	
	adequate RCC bands are provided.	
	iii. Shuttering (Type of material-pucca/katcha,	
	support spacing )	
	iv. Bar bending and stirrups bending, placement	
	and cover to reinforcement bars.	
	v. Plastering	
	vi. Doors and windows	
	vii. Seepage, if any	
	viii. Cracks, if any	
	ix. Honey combing, if any	
	x. Any other	
20.	Whether floor slope (especially) in bath, WC,	
20.	kitchen, terrace and balcony etc. are proper?	
21.	Whether dampness/leakages noticed? If yes, state	
21.	location and probable reasons.	
	iocation and probable reasons.	

22.	Whether remedial measures are undertaken by IA/ ULB to stop Dampness & Leakages ?if any.	
23.	Whether Service lines(Electrical, Plumbing,	
23.	Others) if any, provided before commencement of	
	concrete?	
24.	Whether disaster resistant features have been	
-4.	incorporated?	
25.	Whether precautions taken for dewatering and	
25.	protecting site from flooding as applicable?	
26.	Whether sample units/items are completed and	
20.	approved by competent ULB official / CLTC	
	member before start of mass finishing work?	
27.	Whether Adequate plinth height (above the	
	general ground level) is provided to the ground	
	floor of the building to avoid possibility of	
	rainwater and reptiles in the building.	
28.	Comments on tests already done but not found	
	satisfactory (specify action to be taken)	
29.	Frequency of visit by SLNA/ULB officials and	
	SLTC/CLTC member	
30.	Any other comments	
31.	Overall assessment of quality (in view of	
	structural stability, non structural work and	
	workmanship)*video/photographs of the ongoing	
	works maintained by ULB/Implementation Agency may be referred as the case may be.	
D	BENEFICIARY PARTICIPATION IN THE PR	OIECT
		OUECI
1.	Whether list of Beneficiaries is prepared	
2.	Whether houses are identified and allotted	
3.	Whether the Beneficiaries are involved in the	
	project preparation and construction work.	
4.	Whether the Beneficiaries are visiting the site or	
	not	
5.	Any suggestion of the beneficiaries in the	
	construction	
E	. PROGRESS - HOUSING COMPONENTS	
1.	Numbers of houses sanctioned in the project	
2.	Numbers of houses Completed	
3.	Numbers of houses in progress	
4.	Stages of Progress (Multi storied buildings):	
_	i) Foundation/ Plinth level (Nos.)	
	ii) Superstructure (Frame work) Level(Nos.)	(Specify No. of Units)
	iii) Brickwork completed (Nos.)	(Specify 1.0. of Office)
	iv) Finishing level (Nos.)	
	v) Total units completed (Nos.)	
1	*(Provide detailed report in Annexure-2A)	

5.	Numbers of houses not started			
6.	Reason for non-starter of houses, if any			
7.	Numbers of houses occupied by the Beneficiaries			
8.	Reasons for Non-occupation of houses (If any)- specific reasons to be given			
9.	Size of Unit (Carpet Area)	Sanct	ioned	As per Implementation
10.	Overall physical progress of Housing (in %)			
11.	Whether the building plan(s) conform to NBC norms?			
12.	Whether authenticated building plans and revisions if any, are available?			
13.	Deviation, if any			
14.	Any innovative/ cost effective/ green technology has been used?			
15.	Any other comment			
F.	PROGRESS- CIVIC INFRASTRUCTURE COM	IPONEN'	ΓS	
2.	Whether Contract for infrastructure components (supply, Sewerage, Drainage, Roads, SWM etc.) hawarded?  i) If no, Time line for award of contract for infraworks.  ii) If Yes, State the progress of work in %  a. Water Supply  b. Sewerage  c. Drainage  d. Roads  e. Solid Waste Management  f. Electrification  g. Any other component (as per sanctioned component)  *(Provide detailed report in Annexure-2A)  iii) Deviation if any as per sanctioned DPR	structure		
		ak ak		
3.	Comments on quality of construction of Infra works			
4.	Whether the proposed infrastructure componindependent and/or integrated with ciinfrastructure?			
5.	Whether Transit Accommodation has been provid what measures have been taken for the displaced f	amilies?		
6.	Overall physical progress of civic infrastructure (in	-		
7.	Cost reduction in infrastructure components reported in case of deviation from sanctioned quar	ntity)		
G.	SOCIAL INFRASTRUCTURE COMPONENTS			
1.	Whether Contract for Social Amenities (i.e. Co	mmunity		

	centre, Livelihood centre etc.) have been awarded?
	i) If no, Time line for award of contract for Social
	Amenities.
	ii) If Yes, State the progress of work in %
	a. Community centre
	b. Livelihood centre
	c. Informal Sector Market
	d. Any other component (as per sanctioned components)
	*(Provide detailed report in Annexure-2A)
2.	iii) Deviation if any as per sanctioned DPR
3.	Comments on quality of construction of Social Amenities
4.	Whether livelihood linkages have been ensured?
5.	Overall physical progress of Social Infrastructure (in %)
6.	Overall physical progress of the project (in %)

$\mathbf{H}$	H.PHYSICAL PROGRESS OF THE PROJECT/PACKAGES				
1.	Is there an approved program / schedule of work & whether				
	the same is available at site office				
2.	Overall Percentage progress at the time of inspection vis-à-				
	vis expected as per contract.				
3.	Package wise % of progress	(Attach package-wise Annexure)			
4.	Details of milestones as per contract vis-à-vis their				
	achievement				
5.	Reasons for delay				
I.	FINANCIAL PROGRESS & FUND UTILIZATION	(Rs. in Lakhs)			
1.	Sanctioned fund for entire project.				
2.	Amount of funds received up to date				
3.	Up-to date Expenditure				
4.	Amount of funds Utilized (out of received)				
5.	Amount of Expenditure by ULB (ULB Contribution +				
	Beneficiaries contribution)				
6.	Balance funds Expected/due from various stackholders				
7.	Package wise Expenditure				
8.	Over All Financial Progress %= Total Expenditure				
	/ Total of Tendered Amount x100				
9.	Whether the work is delayed for non payment of any				
	pending bills after construction (to be specified)?				
J.	VARIATIONS w.r.t. SANCTIONED COVENNANTS				
1.	Are there any major variation because of:				
	i. Specifications				
	ii. Quality				
	iii. Quantity				
	iv. Designs (Architectural / Structural)				
	v. Period of Construction (Increase/Decrease)				
K.	K. COST VARIATION and TIME-OVERRUNS				
Cost v	variation:				

1.	Whether there is cost variation?	
2.	If yes what are the reasons:	
	i. Change in Quantities	
	ii. New/Additional Items of work	
	iii. Price Escalation	
	Any other ( to be specified)	
Time (	Overruns:	
1.	Whether there is time overrun?	
2.	If yes what are the reasons:	
	i. Delay in issue of work order	
	ii. Delay in signing agreement	
	iii. Delay in Handing Over site of work to the	
	Contractor	
	iv. Delay in actual start of work by the Contractor	
	v. Delay in procurement of material (give reasons)	
	vi. Delay due to lack of interdepartmental	
	coordination	
	Any other ( to be specified)	
L.	REMEDIAL MEASURES TO IMPROVE PROGRESS ANI	D QUALITY
Under	taken by Implementation agency to improve the:	
1.	Physical Progress	
2.	Financial Progress	
3.	Quality management	
4.	Comments and suggestions of TPQMA on above	
Μ.	COURT CASES AND LITIGATIONS	
1.	( To be specified)	
2.		
N.	OTHERS	
1.	Feedback of beneficiaries regarding provision of Physical &	
-	Social infrastructure.	
2.	Any specific observation by the beneficiary	
3.	Overall observation on the project (with adequate	
	photographs covering project to a large extent including	
	quality issues as applicable)	
	1. Critical observations	
	2. Action suggested by TPQMA to SLNA and IA	
4.	Action taken report on previous report:	
-	i. Observations of TPQMA	
	ii Action suggested by TPQMA	
	iii Action taken by IA (Implementation Agency)	
	iv Whether TPQMA is satisfied with the action taken by IA	
5.	TPQMA's Overview of the Project (in 400-500 words) in a separate	
	sheet	

(Signature) Name and Designation (Signature) Name andDesignation

<sup>\*</sup>The format is indicative; the information will vary for different type of projects. The information may be added/deleted as appropriate.

DETA	LED REPORT ON PROPOSED V	VORKS		
S.No.	Component	Whether in progress (Yes / No)	Whether Inspected (Yes / No)	Comments
Α.	BUILDING WORK:			
1.	Earthwork			
2.	Concrete work (Sub-structure			
	/up to plinth)			
3.	RCC work (Above plinth /			
·	Super Structure)			
4.	Brick / Block work			
5.	Stonework			
6.	Marble work			
7.	Wood work			
8.	Steel work			
9.	Flooring			
10.	Roofing			
11.	Finishing			
12.	Internal services			
13.	External Services			
В.	CIVIC INFRASRUCTURE WORL	KS:		
a.	WATER SUPPLY:			
1.	GSR/UGSR			
2.	ELSR/OHT			
3⋅	Intake-Jack-well			
4.	WTP			
5.	Pipelines			
6.	Pump sets.			
7.	Rain Water Harvesting pits			
8.	Sump			
9.	Tube wells			
b.	SEWERAGE:			
1.	Sewer Trap Connect. Chamber			
2.	Collection network pipes			
3.	Inspection chambers			
4.	Sewerage pump Stn (SPS)			
5.	SPS to STP Pipeline			
6.	STP			
<b>7</b> •	Septic tank			
8.	Soak-pit			
c.	STORM WATER DRAINS:			
1.	Drains			
2.	Open channel			
3.	Closed RCC Pipes			
4.	In-Situ RCC Box-pipes			
5.	Type of Grating/Jali			
6.	Inspection Chambers			
7.	Point of disposal (Nallah, Cana	ıl,		

	River, Creek)		
d.	ROADS & CULVERTS:		
1.	Roads		
2.	Pavements		
3.	Jogging track		
4.	Plantation		
5.	Restoration		
6.	Culverts ( Masonry / RCC)		
e.	<b>ELECRIFICATION:</b>	•	
1.	H.T. Supply lines		
2.	L.T. Supply lines		
3.	Transformer		
4.	Street Lighting		
f.	SOLID WASTE MANAGEMENT:		
1.	S. W. Collection System		
2.	Dust Bins/Containers		
3.	S. W. Transport System		
4.	Temp. store yards		
5.	S.W. Disposal area		
g.	COMPOUND WALL:		
1.	Compound/Boundary wall		,
2.	Entrance Gate		
h.	MISCELLANEOUS:		
1.	Retaining wall		
2.	Any other (to be specified)		
	REPORT ON SOCIAL INFRASRUC	CTURE WORKS:	
a.	COMMUNITY FACILITIES:		1
1.	Community Centre		
2.	Livelihood Centre		
3.	Any Other		
<b>b.</b>	HEALTH /EDUCATION FACILITI	ES:	
1.	Public Health Centre		
2.	Anganwadi		
3.	Primary School		
4.	Secondary School		
5.	Higher Secondary School		
	INFORMAL SECTOR MARKET		
1.	Vegetable Market		
2.	Meat-Fish Market		
3.	Medical Store		
4.	Any Other		
	ANY OTHER ( To be specified)		
1.			
2.			
3.			

## 1.6 Annexure 3

## Third Party Quality Monitoring Report of BLC projects under PMAY

Name of TPQM Agency	
Date of Visit	
Current Visit No.	
Date of Previous visit	

Λ	DADTICIH ADC OF DDO IECT					
	PARTICULARS OF PROJECT					
1.	Name of the State /UT:					
2.	Name of the City:					
3.	Name of Project:					
4.	Project Code:					
5.	Implementing Agency/ ULB					
6.	Location of the Project ( Slum name, Ward etc. as applicable)					
7.	Type of Project :(i) BLC (New Construction) (ii) BLC (Enhancement)					
8.	No. of EWS Houses in the project					
9.	Date of Approval by SLSMC					
10.	Approved Project Cost (Rs. Lakhs):	Central share	State share	ULB/ Implementing agency share	Beneficiary share	Total
11.	Date of sanction of 1st instalment of Central Assistance by CSMC					
12.	Duration of the project					
13.	Date of commencement		Scheduled	l	Actual	
14.	Date of completion	2	Scheduled	L	Expecte	<u>d</u>
15.	Inspection undertaken by ( Name)	1.				
_	(with contact detail):	2.				
16.	Name of State representative present during visit					
17.	Name of ULB representative present during visit					
18.	Name of Community representative present during visit					
19.	Whether list of Beneficiaries finalised?					
20.	If finalised, whether uploaded in PMAY MIS?					
21.	State any deviation from sanctioned DPR in terms of number of houses or size or location or Layout					

22.	Any other comment	
В	QUALITY ASSURANCE IN THE PROJECT	
1.	Whether ULB/ State have organized workshop/	
	training programmes to educate the beneficiaries	
	about quality, construction methods, adherence to disaster resistant technologies etc.	
2.	Whether testing facilities to check quality of	
	material is available?	
3.	Whether regular tests of materials and	
	construction products tests of materials are being	
	done from accredited labs also?	
4.	(i) Whether the structural Designs are approved	
	/ Proof checked by competent Authority	
	(ii) Name of the approving authority for structural design.	
	(iii) Whether the statuary certificate for disaster	
	resistance design and compliance of codal	
	provision is endorsed by the structural	
	designer on the structural drawings fit for	
	execution, Specially in case of multi-storeyed	
	construction. (iv) The work is being executed as per the	
	approved drawings fit for execution.	
5.	Whether the Inspection Registers, Site order book	
	and Quality control Test registers are maintained	
	and endorsed by the Engineer-in-charge?	
6.	Whether cement, steel, aggregates etc. being used	
	in the work, got tested before use?	
7.	Whether manufacturer test certificate for cement,	
	steel, pipes etc. have been obtained with supply	
	and records are being maintained?	
8.	Whether Cement is free from lumps and is	
	stacked properly to prevent contact with	
	moisture?	
9.	Whether soil investigations of the site proper	
	have been done before the structural design and	
	soil parameters have been accounted for in the	
	structural design/ drawings? If yes, attach copy	
	of soil investigation report.	
10.	Whether centring /shuttering is checked for	
	staging & propping, line & level, dimensions,	
	cleaning etc. and its quality approved before	
	each stage and record maintained.	
11.	Specific control on RCC work like: mixing by full	
	bag capacity hopper fed mixer, control of slump,	
	placing/ compaction with vibrator.	
	(proportioning with boxes not permitted)	

12.	Whether cement register is maintained and	
	checked at site. Comment on method of stacking.	
13.	Whether concrete mix is nominal or design mix?	
	(Nominal mix not permitted for quality	
	concrete).	
14.	What is the Mode of Concrete mixing (batch	
	mix/ manual)? In case of manual mixing,	
	whether mixing is by weight or by volume of	
	ingredients?	
	(Volumetric mixing not permitted).	
15.	Whether Mixer/Vibrator as specified is available	
	at site with adequate means to run them during	
	concreting?	
16.	Whether Surface of reinforcement is clean and	
	free from rust?	
17.	Whether potable water is used for construction?	
18.	Whether proper water / cement ratio has been	
	ensured?	
19.	Whether the concrete being cured adequately as	
00	per requirements? Whether bricks are well burnt, of rectangular	
20.	shape, with sharp edges, free from cracks and of	
	correct size?	
21.	Whether	
21.	i) Execution of Depth & width of Foundation is as	
	per drawing/ adequate & bottom levelled	
	ii) Plinth height is as per drawing/adequate	
	iii) Horizontal bands (as applicable) have been	
00	provided  Whether quality has been checked by TPQMA/	
22.	State agency? If yes, details thereof?	
23.	Quality of work and workmanship, Comments on	
23.		
	i. RCC work (concrete, Reinforcement detailing, cover to reinforcement). Whether Columns are in	
	plumb (check for verticality).	
	ii. Masonry (Joint details, verticality). Check	
	adequate RCC bands are provided.	
	iii. Shuttering (Type of material-pucca/katcha,	
	support spacing)	
	iv. Bar bending and stirrups bending, placement	
	and cover to reinforcement bars. v. Plastering	
	vi. Doors and windows	
	vii. Seepage, if any	

	viii. Cracks, if any		
	ix. Honey combing, if any		
	x. Any other		
24.	Whether provision has been made for Service lines (Electrical, Water Supply, Sanitation etc.)		
25.	Whether floor slope (especially) in bath, WC, kitchen, terrace and balcony etc. are proper?		
26.	Whether adequate plinth height ( above the general ground level) is provided to the ground floor of the building to avoid possibility of rainwater and reptiles in the building.		
27.	Whether dampness/leakages noticed? If yes, state location and probable reasons.		
28.	Whether remedial measures are undertaken by IA/ ULB to stop Dampness & Leakages if any?		
29.	Whether disaster resistant features have been incorporated?		
30.	Any other comments		
31.	Report on Overall assessment of quality		m 500 words osed separately)
C	PROGRESS - HOUSING COMPONENTS		
1.	Numbers of houses sanctioned in the project		
2.	Numbers of houses Completed		
3.	Numbers of houses in progress		
4.	Stages of Progress:  i. Foundation/ Plinth level (Nos.)  ii) Lintel level (Nos.)  iii) Roof level (Nos.)  iv) Finishing level (Nos.)  v) Total units completed (Nos.)	(Specify no. of Units)	
5.	Numbers of houses not started		
6.	Reason for non-starter of houses, if any		
7.	Numbers of houses occupied by the Beneficiaries		
8.	Reasons for Non-occupation of houses (If any)- specific reasons to be given		
9.	Size of Unit (Carpet Area)	Sanctioned	As per Implementation
10.	Overall physical progress of Housing (in %)		ı
11.	Whether the progress of houses has been ensured through geo-tagged photographs at various construction level?		
12.	Whether DBT of fund to individual beneficiary is		

	ensured in the project?				
13.	Whether the building plan(s) conform to NBC norms?				
14.	Whether authenticated building plans and revisions if any, are available?				
15.	Deviation, if any				
16.	Any other comment				
D.	• CIVIC INFRASTRUCTURE				
1.	Whether provision of Civic infrastructure components (i.e. water supply, Sewerage, Drainage, Roads, SWM etc.) has been ensured?				
2.	Whether the Existing/proposed infrastructure components are independent and/or integrated with city level infrastructure?				
3.	Any other comments				
<b>E.</b>	SOCIAL INFRASTRUCTURE				
1.	Whether provision of Social Amenities (i.e. School, Anganwadi, Health centre, Community centre, Livelihood centre etc.) has been ensured?				
2.	Any other comments				
F.	F. FINANCIAL PROGRESS & FUND UTILIZATION (Rs. in Lakhs)				
1.	Sanctioned fund for entire project.				
2.	Amount of funds received up to date				
3.	Up-to date Expenditure				
4.	Amount of funds Utilized (out of received)	:			
5.	Amount of Expenditure by ULB				
6.	Amount of Expenditure by Beneficiaries				
7.	Balance funds Expected/due from stakeholders				
G.	. COST VARIATION and TIME-OVERRUNS				
Cost v	variation:				
1.	Whether there is cost variation? If yes, what are the reasons?				
Time	Overruns:				
1.	Whether there is time overrun? If yes, what are the reasons?				
H	REMEDIAL MEASURES TO IMPROVE PROGRESS AND QUALITY				
Unde	ertaken by Implementation agency to improve the:				
1.	Physical Progress				

	Financial Progress	
2.	Financial Flogress	
3.	Quality management	
4.	Comments and suggestions of TPQMA on above	
I.	COURT CASES AND LITIGATIONS	
1.	( To be specified)	
J.	OTHERS	
1.	Any innovative/ cost effective/ green technology has been used	
2.	Feedback of beneficiaries regarding provision of Physical & Social infrastructure:	
3.	Reasons for delay in completion of housing and Infrastructure, if any:	
4.	Any specific observation by the beneficiary	
5.	Overall observation on the project (with adequate photographs covering project to a large extent including quality issues as applicable) 3. Critical observations 4. Action suggested by TPQMA to SLNA and IA	
6.	Action taken report on previous report: i. Observations of TPQMA ii Action suggested by TPQMA iii Action taken by Beneficiaries/ IA (Implementation Agency) iv Whether TPQMA is satisfied with the action taken	
7.	TPQMA's Overview of the Project (in 400-500 words) in a separate sheet	

<sup>\*</sup>The format is indicative; the information will vary for different type of projects. The information may be added/deleted as appropriate.

(Signature) Name Designation Date (Signature) Name Designation Date

#### 1.7 Annexure 4

#### Suggested structure and positions

It is envisaged that for quality monitoring of approved projects, there will be a team of one Senior Engineer (Civil) and one Junior Engineer (E/M) for site visits of minimum 6 projects of different cities in a month. The Senior Engineer will act as Team Leader.

For more site visits in a month (depending upon number of approved projects), the Agency is expected to provide additional teams as envisaged above from time to time during the term of the contract.

The job description for each position including qualification & experience is given below. The job description provided is indicative in nature and may undergo changes.

	Position	Job Description	Qualification & Experience
1	Team Leader (Senior Engineer, Civil)	<ul> <li>To lead the team of professionals engaged to carry out the job of monitoring of housing and infrastructure projects.</li> <li>Responsible for ensuring the overall outcome and activity based support envisaged for the TPQMA.</li> <li>Co-ordinate with team member and report to the SLNA on progress of outcomes.</li> <li>Be responsible for the overall management of the Agency and budget, and for the timely and efficient delivery of outputs.</li> <li>Closely monitor the performance in collaboration with the SLNA to ensure that requirements related to PMAY are fully addressed.</li> <li>Liaise with external stakeholders as per the requirements of the scheme.</li> </ul>	

2	Engineer	• Shall be required at site as	• Graduate in Electrical /
	(E/M)	directed by the SLNA and shall	Mechanical Engineering with
	, ,	inspect and monitor	at least 7 years of experience
		implementation of the project,	or Diploma in Electrical /
		find deficiencies and suggest	Mechanical Engineering with
		suitable remedial measures.	at least 10 years of
		Surtusio Tomoului mousuros.	experience.
			• At least 2-3 years of
		• Support Team Leader / Senior	experience in the urban
		Engineer to document and	
		communicate reports to States	housing and infrastructure
			sector.
		and Cities and necessary follow-	• Shall have exposure to
		up actions.	quality assurance in new
			construction and subsequent
			Maintenance aspects.
			<ul> <li>Must be familiar with:</li> </ul>
			o Modern methods of
			construction of building.
			o Design standards and
			technical specification of
			Electrical and Mechanical
			works in the building and
			infrastructure.

## 1.8 Annexure 5

## **Undertaking**

It is hereby certified that the following parameters have been followed in respect of the reimbursement of TPQMA charges:-

1.	The services of the agency have been procured through transparent competitive
	bidding processes, as per procurement norms of the state.
2.	The works have been awarded after the launch of PMAY i.e. 25 <sup>th</sup> June, 2015.
3.	The work was advertised through EoI publication/Tender Advertisement on
	(date).
4.	The bids received through transparent competitive bidding process were evaluated
	and work was awarded to M/s, which was the lowest bidder.
	Details of bid evaluation / comparative statement are available with the ULB /
	Implementing agency.
5.	The work has been completed by the appointed agency to the satisfaction of the
	ULB / Implementing agency.
6.	Out of the total requested reimbursement amount towards TPQMA charges, Rs.
	lakhs have been paid to the agency and the balance Rs lakhs will be
	paid by the ULB / implementing agency on receipt of payment from the Ministry.
	Copy of payment invoice, proof of payment made to the agency and copy of cash
	vouchers are available with the ULB / Implementing agency.
7.	The quality monitoring of the project(s) is going on as per the sanctioned plan and
	no revision has been / is being proposed.
	Signature Signature
	( State Level Nodal Officer) ( Secretary/Principal Secretary Concerned Department)
	******
,.	Signature (State Level Nodal Officer)  Signature (Secretary/Principal Secretary Concerned Department)