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


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/IAAs 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 2nd 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 website www.mhupa.gov.in.

6. It is requested that suggestions/comments on the Reference Guide may be conveyed to the Ministry through email to dirhfa1-mhupa@gov.in within 15 days so that the Reference Guide may be finalized.

Yours sincerely,

(R.S. Singh)
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:

1. 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

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<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHP</td>
<td>Affordable Housing in Partnership</td>
</tr>
<tr>
<td>AQMP</td>
<td>Annual Quality Monitoring Plan</td>
</tr>
<tr>
<td>BLC</td>
<td>Beneficiary Led Construction</td>
</tr>
<tr>
<td>CLSS</td>
<td>Credit linked subsidy scheme</td>
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<tr>
<td>CLTC</td>
<td>City Level Technical Cell</td>
</tr>
<tr>
<td>DA</td>
<td>Development Authority</td>
</tr>
<tr>
<td>DBT</td>
<td>Direct Benefit Transfer</td>
</tr>
<tr>
<td>DPR</td>
<td>Detailed Project Report</td>
</tr>
<tr>
<td>EWS</td>
<td>Economically Weaker Section</td>
</tr>
<tr>
<td>GoI</td>
<td>Government of India</td>
</tr>
<tr>
<td>HFA</td>
<td>Housing for All</td>
</tr>
<tr>
<td>HFAPoA</td>
<td>Housing for All Plan of Action</td>
</tr>
<tr>
<td>HB</td>
<td>Housing Board</td>
</tr>
<tr>
<td>IA</td>
<td>Implementing Agency</td>
</tr>
<tr>
<td>IS</td>
<td>Indian Standards</td>
</tr>
<tr>
<td>ISSR</td>
<td>In-Situ Slum Redevelopment</td>
</tr>
<tr>
<td>LIG</td>
<td>Low Income Group</td>
</tr>
<tr>
<td>MoHUPA</td>
<td>Ministry of Housing and Urban Poverty Alleviation</td>
</tr>
<tr>
<td>PMAY</td>
<td>Pradhan Mantri Awas Yojana</td>
</tr>
<tr>
<td>SLNA</td>
<td>State level Nodal Agencies</td>
</tr>
<tr>
<td>SLSMC</td>
<td>State Level Sanctioning and Monitoring Committee</td>
</tr>
<tr>
<td>SLTC</td>
<td>State Level Technical Cell</td>
</tr>
<tr>
<td>TPQMA</td>
<td>Third Party Quality Monitoring Agency</td>
</tr>
<tr>
<td>UC</td>
<td>Utilisation Certificate</td>
</tr>
<tr>
<td>UTT</td>
<td>Urban Improvement Trust</td>
</tr>
<tr>
<td>ULB</td>
<td>Urban Local Body</td>
</tr>
<tr>
<td>UT</td>
<td>Union Territory</td>
</tr>
</tbody>
</table>
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 TPQMA have access to the required documents, project sites, key officials for meetings and discussions and other support required.

• Ensure that TPQMA 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........**

<table>
<thead>
<tr>
<th>A. PARTICULARS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of State/UT</td>
<td></td>
</tr>
<tr>
<td>No of towns under PMAY</td>
<td></td>
</tr>
<tr>
<td>No of projects proposed under PMAY*</td>
<td>ISSR</td>
</tr>
<tr>
<td>(* As per HFAPeA/AIP)</td>
<td></td>
</tr>
<tr>
<td>No of projects approved under PMAY</td>
<td></td>
</tr>
</tbody>
</table>

| B. Desk review/ Field visits proposed |  |  |
| Category of project | No. of visits for each project | No. of visits proposed during the year |
| "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**

<table>
<thead>
<tr>
<th>Name of TPQM Agency</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Visit</td>
<td></td>
</tr>
<tr>
<td>Current Visit No.</td>
<td></td>
</tr>
<tr>
<td>Previous visit with date</td>
<td></td>
</tr>
</tbody>
</table>

#### A. 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/ UTT/ Slum Rehabilitation Agency)
6. Location of the Project (Slum name, Ward etc. as applicable) (Annexe details in case of multiple 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/Implementing agency share | 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 (Annexe details in case of multiple contracts)
16. Date of commencement Scheduled Actual
17. Date of completion Scheduled Expected
18. Inspection undertaken by (Name) 1.
<p>| | |</p>
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>(with contact detail) :</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Name of State representative present during visit</td>
</tr>
<tr>
<td>20.</td>
<td>Name of ULB representative present during visit</td>
</tr>
<tr>
<td>21.</td>
<td>Name of Contractor's representative present during visit</td>
</tr>
<tr>
<td>22.</td>
<td>Name of Community representative present during visit</td>
</tr>
<tr>
<td>23.</td>
<td>Whether list of Beneficiaries finalised/ partially finalised/ not finalised</td>
</tr>
<tr>
<td>24.</td>
<td>If finalised, whether uploaded in PMAY MIS</td>
</tr>
<tr>
<td>25.</td>
<td>State any deviation from sanctioned DPR in terms of number of houses or size or location or Layout</td>
</tr>
<tr>
<td>26.</td>
<td>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 legal clauses. d. Compliance to liquidated damages. e. Compliance to penalties.</td>
</tr>
<tr>
<td>27.</td>
<td>Any other comment</td>
</tr>
</tbody>
</table>

**B. HEALTH & SAFETY ASPECTS (ON SITE)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Whether the drinking water facility is provided on site?</td>
</tr>
<tr>
<td>2.</td>
<td>Whether there are adequate no. of toilets provided &amp; maintained for site staff / Workers?</td>
</tr>
<tr>
<td>3.</td>
<td>Whether there is a board indicating the safety norms to be observed?</td>
</tr>
<tr>
<td>4.</td>
<td>Whether the use of following is being done by site staff i. Safety Helmets  ii. Safety Shoes  iii. Safety Goggles  iv. Safety Jackets</td>
</tr>
<tr>
<td>5.</td>
<td>Whether safety railings &amp; safety tapes have been provided around excavation trenches /upper floors/ducts/lift well?</td>
</tr>
<tr>
<td>6.</td>
<td>Whether approved quality &amp; type shoring-strutting-scaffolding are provided for excavation trenches/Pits/Building work?</td>
</tr>
<tr>
<td>7.</td>
<td>Whether 'FIRST AID' kit is available at site?</td>
</tr>
<tr>
<td>8.</td>
<td>Whether Fire Extinguishers are available at site?</td>
</tr>
<tr>
<td>9.</td>
<td>Whether 'Blasting' is being done on site? If yes, whether necessary permissions have been obtained and required precautions have been taken for control blasting?</td>
</tr>
<tr>
<td>10.</td>
<td>Whether any Safety-Officer is employed?</td>
</tr>
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</table>
### C. QUALITY ASSURANCE IN THE PROJECT

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Whether authenticated copy of DPR, contract document, structural drawings and copies of specifications are available at site?</td>
</tr>
<tr>
<td>2.</td>
<td>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?</td>
</tr>
<tr>
<td>3.</td>
<td>Whether list of ISI marked/approved materials to be used is available at site?</td>
</tr>
<tr>
<td>4.</td>
<td>Is there a provision in Contract/Tender to provide &quot;Test facilities on site&quot;?</td>
</tr>
<tr>
<td>5.</td>
<td>Whether testing facilities to check quality of material is available at site? If yes attach list of Equipments</td>
</tr>
</tbody>
</table>
| 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 statutory 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. |
<p>| 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 &amp; propping, line &amp; level, dimensions, cleaning etc. and its quality approved before each stage and record maintained. |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>12.</td>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Whether cement register is maintained and checked at site. Comment on method of stacking.</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Whether concrete mix is nominal or design mix? (Nominal mix not permitted for quality concrete).</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>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).</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Whether Mixer/Vibrator as specified is available at site with adequate means to run them during concreting?</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
| 18. | Suitability of water for construction  
   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 |   |
<p>| 20. | Whether floor slope (especially) in bath, WC, kitchen, terrace and balcony etc. are proper? |   |
| 21. | Whether dampness/leakages noticed? If yes, state location and probable reasons. |   |</p>
<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>22.</td>
<td>Whether remedial measures are undertaken by IA/ ULB to stop Dampness &amp; Leakages ?if any.</td>
</tr>
<tr>
<td>23.</td>
<td>Whether Service lines(Electrical, Plumbing, Others) if any, provided before commencement of concrete?</td>
</tr>
<tr>
<td>24.</td>
<td>Whether disaster resistant features have been incorporated?</td>
</tr>
<tr>
<td>25.</td>
<td>Whether precautions taken for dewatering and protecting site from flooding as applicable?</td>
</tr>
<tr>
<td>26.</td>
<td>Whether sample units/items are completed and approved by competent ULB official / CLTC member before start of mass finishing work?</td>
</tr>
<tr>
<td>27.</td>
<td>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.</td>
</tr>
<tr>
<td>28.</td>
<td>Comments on tests already done but not found satisfactory (specify action to be taken)</td>
</tr>
<tr>
<td>29.</td>
<td>Frequency of visit by SLNA/ULB officials and SLTC/CLTC member</td>
</tr>
<tr>
<td>30.</td>
<td>Any other comments</td>
</tr>
<tr>
<td>31.</td>
<td>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.</td>
</tr>
</tbody>
</table>

**D. BENEFICIARY PARTICIPATION IN THE PROJECT**

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.)  
   iii) Brickwork completed (Nos.)  
   iv) Finishing level (Nos.)  
   v) Total units completed (Nos.)  

*(Provide detailed report in Annexure-2A)*

( 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 %)

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 COMPONENTS**

1. Whether Contract for infrastructure components (i.e. water supply, Sewerage, Drainage, Roads, SWM etc.) have been awarded?
   i) If no, Time line for award of contract for infrastructure works.
   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 components)

* (Provide detailed report in Annexure-2A)

2. iii) Deviation if any as per sanctioned DPR

3. Comments on quality of construction of Infrastructure works

4. Whether the proposed infrastructure components are independent and/or integrated with city level infrastructure?

5. Whether Transit Accommodation has been provided. If not what measures have been taken for the displaced families?

6. Overall physical progress of civic infrastructure (in %)

7. Cost reduction in infrastructure components (To be reported in case of deviation from sanctioned quantity)

**G. SOCIAL INFRASTRUCTURE COMPONENTS**

1. Whether Contract for Social Amenities (i.e. Community
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 %)

### 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 stockholders

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 COVENANTS

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. COST VARIATION and TIME-OVERRUNS

Cost variation:
1. Whether there is cost variation?

2. If yes what are the reasons:
   - Change in Quantities
   - New/Additional Items of work
   - Price Escalation
   - Any other (to be specified)

**Time Overruns:**

1. Whether there is time overrun?

2. If yes what are the reasons:
   - Delay in issue of work order
   - Delay in signing agreement
   - Delay in Handing Over site of work to the Contractor
   - Delay in actual start of work by the Contractor
   - Delay in procurement of material (give reasons)
   - Delay due to lack of interdepartmental coordination
   - Any other (to be specified)

**L. REMEDIAL MEASURES TO IMPROVE PROGRESS AND QUALITY**

Undertaken by Implementation agency to improve the:

1. Physical Progress
2. Financial Progress
3. Quality management
4. Comments and suggestions of TPQMA on above

**M. 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:
   1. Observations of TPQMA
   2. Action suggested by TPQMA
   3. Action taken by IA (Implementation Agency)
   4. 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

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

(Signature)  
Name and Designation

(Signature)  
Name and Designation
DETAILED REPORT ON PROPOSED WORKS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Component</th>
<th>Whether in progress (Yes / No)</th>
<th>Whether Inspected (Yes / No)</th>
<th>Comments</th>
</tr>
</thead>
</table>

A. 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

B. CIVIC INFRASTRUCTURE WORKS:

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

Third Party Quality Monitoring Report of BLC projects under PMAY

<table>
<thead>
<tr>
<th>Name of TPQM Agency</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Visit</td>
<td></td>
</tr>
<tr>
<td>Current Visit No.</td>
<td></td>
</tr>
<tr>
<td>Date of Previous visit</td>
<td></td>
</tr>
</tbody>
</table>

**A. 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 | Actual |
14. Date of completion
    | Scheduled | Expected |
15. Inspection undertaken by (Name) (with contact detail):
    | 1. |
    | 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
### B. 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 statutory 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)
<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.</td>
<td>Whether cement register is maintained and checked at site. Comment on method of stacking.</td>
</tr>
<tr>
<td>13.</td>
<td>Whether concrete mix is nominal or design mix? (Nominal mix not permitted for quality concrete).</td>
</tr>
<tr>
<td>14.</td>
<td>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).</td>
</tr>
<tr>
<td>15.</td>
<td>Whether Mixer/Vibrator as specified is available at site with adequate means to run them during concreting?</td>
</tr>
<tr>
<td>16.</td>
<td>Whether Surface of reinforcement is clean and free from rust?</td>
</tr>
<tr>
<td>17.</td>
<td>Whether potable water is used for construction?</td>
</tr>
<tr>
<td>18.</td>
<td>Whether proper water / cement ratio has been ensured?</td>
</tr>
<tr>
<td>19.</td>
<td>Whether the concrete being cured adequately as per requirements?</td>
</tr>
<tr>
<td>20.</td>
<td>Whether bricks are well burnt, of rectangular shape, with sharp edges, free from cracks and of correct size?</td>
</tr>
<tr>
<td>21.</td>
<td>Whether i) Execution of Depth &amp; width of Foundation is as per drawing/ adequate &amp; bottom levelled ii) Plinth height is as per drawing/adequate iii) Horizontal bands (as applicable) have been provided</td>
</tr>
<tr>
<td>22.</td>
<td>Whether quality has been checked by TPQMA/ State agency? If yes, details thereof?</td>
</tr>
<tr>
<td>23.</td>
<td>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</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Minimum 500 words</th>
</tr>
</thead>
<tbody>
<tr>
<td>(To be enclosed separately)</td>
</tr>
</tbody>
</table>

**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 %)

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

**E. 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. 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 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**

Undertaken by Implementation agency to improve the:

1. Physical Progress
2. Financial Progress

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

*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.

<table>
<thead>
<tr>
<th>Position</th>
<th>Job Description</th>
<th>Qualification &amp; Experience</th>
</tr>
</thead>
</table>
| 1 Team Leader (Senior Engineer, Civil) | • To lead the team of professionals engaged to carry out the job of monitoring of housing and infrastructure projects.  
• Responsible for ensuring the overall outcome and activity based support envisaged for the TPQMA.  
• Co-ordinate with team member and report to the SLNA on progress of outcomes.  
• Be responsible for the overall management of the Agency and budget, and for the timely and efficient delivery of outputs.  
• Closely monitor the performance in collaboration with the SLNA to ensure that requirements related to PMAY are fully addressed.  
• Liaise with external stakeholders as per the requirements of the scheme. | • Post Graduate in Civil Engineering with at least 15 years of experience.  
• Experience in the urban sector, of which at-least 3-4 years should have been on leading monitoring agencies.  
• Shall have a thorough knowledge of:  
  o Latest specifications pertaining to Building & infrastructure works  
  o Related publications according to which the works are required to be carried out and the tests to be conducted to ensure a good quality work. |
| 2 | **Engineer (E/M)** | • Shall be required at site as directed by the SLNA and shall inspect and monitor implementation of the project, find deficiencies and suggest suitable remedial measures.

• Support Team Leader / Senior Engineer to document and communicate reports to States and Cities and necessary follow-up actions.

| | **Graduate in Electrical / Mechanical Engineering with at least 7 years of experience or Diploma in Electrical / Mechanical Engineering with at least 10 years of experience.**

• At least 2-3 years of experience in the urban housing and infrastructure sector.

• Shall have exposure to quality assurance in new construction and subsequent Maintenance aspects.

• Must be familiar with:
  - Modern methods of construction of building.
  - 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. 25th 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
( State Level Nodal Officer)  

Signature
( Secretary/Principal Secretary, Concerned Department)

****************