

## Highlights of the New Technology Tender, DSIIDC, New Delhi

1. **Name of Work:** Construction of Low Cost Housing for Urban Poor/Slum Rehabilitation at Tikri Kalan, Delhi. Comprising of 8420DU's (G+4) in Phase-1 (SH: C/o 3380 DU's(G+4)) ( Package-II).
2. **Agency:** Delhi State Industrial & Infrastructure Development Corporation, (DSIIDC), New Delhi.
3. **Project Duration :** 12 months
4. **Estimated Cost:** Rs. 156.00 cr. for 3380 DUs.
5. **Technology for Housing:** RCC Monolithic Technology for housing.
6. **Tender called on Lumpsum basis.**( building works).
7. For items and works involving monolithic construction (Shear Wall) technology, the specifications and guidelines of CBRI and BMTPC shall be followed. In case, any ambiguity in interpretation of specification for such items of monolithic construction (Shear Wall) technology, the decision of the Engineer-in-Charge shall be final.
8. The agency may be asked to construct a sample dwelling unit in all respect on priority basis by the Engineer-in-Charge (i.e. including all fittings and fixtures)
9. **Criteria of eligibility for submission of bid document:-** As per tender eligibility criteria for applying for tender/bidding are as follow related to executed similar works in last 7 years:
  - Bidder should have completed three similar works each costing not less than the amount equal to 40% of the estimated cost put to tender or two similar completed works each costing not less than the amount equal to 60% of the estimated cost put to tender or one similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.
  - For un-registered firm, one completed work of any nature (Either part of above or a separate one) costing not less than the amount equal to 40% of the estimated cost put to tender with some Central Government Department / State Government Department / Central Autonomous Body /Central Public Sector Undertaking. The executed work shall mean that the tenderer has been paid by the Central & State Government Department / Central Autonomous Body /Central& State Public Sector Undertaking amount for completion/part

completion of the project but shall exclude the amount paid as advance of any nature.

- The tenderers should have executed the works of Housing with monolithic technology (shear wall) having value not less than 50 crores.
- Similar works shall mean the work mainly of building it will also include any or all of the following work associated with the work of building:
  - (a) Roads,
  - (b) Underground reservoir,
  - (c) Storm Water drain,
  - (d) Water supply & Sewerage
- For private works other than Government Departments the completion certificates of the clients or concerned architect or Municipal Authorities shall be submitted by the contractor in terms of similar works.

10. The work is being executed as part of GOI scheme of BSUP under JNNURM. As mentioned in the scheme the work shall be inspected by, TPIM agency appointed by GNCTD and TPIM agency appointed by GOI. The work will also be periodically inspected by M/s Shri Ram Institute for Industrial Research or any other TPIM agency appointed by DSIIDC to carry out the work of inspection in its behalf.

The work may be inspected by any external agency like Central Vigilance Commission. Any deductions/compensation proposed by TPIM/TPQC/CVC/QMS or any agency approved by DSIIDC in regard to defective work or work not confirming to specification, loss of time, amount shall be deducted from their bills or by sale of their properties at site.

**11. PARTICULAR SPECIFICATIONS FOR MONOLITHIC CONSTRUCTION (SHEAR WALL) TECHNOLOGIES FOR HOUSING BUILDING WORK:-**

In the monolithic concrete technology, walls and slabs are cast in one operation in specially designed light weight form /moulds of aluminum in concrete. Concrete is poured in the forms & forms are removed after the setting of concrete takes place. The predesigned formwork also acts some sort of assembly line production and enables rapid construction of multiple units of repetitive type. In monolithic concrete construction with aluminium forms system, Concrete walls and slabs are cast monolithic at one pour. The system allows reduction in thickness of concrete members below the minimum value than the conventional of natural resources. The technology reduces the cost of repair and maintenance compared to conventional system. The panels of aluminium formwork are made

from high strength aluminium alloy, with the face or contact surface of the panel, made up of 4mm thick plate, which is welded to a formwork of specially designed extruded sections, to form a robust component. The panels are held in position by a simple pin and wedge arrangement system that passes through holes in the outside rib of each panel. The panels fit precisely, securely and require no bracing. The walls are held together with high strength wall ties, while the decks are supported by beams and props.