

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

NEW DELHI

TENDER NOTICE (N I T)

Tenders are invited for the work “Structural Strengthening of Block - D & adjacent areas of Scientist Apartments at Maharani Bagh, Ashram Chowk, New Delhi”, Est. Cost. **Rs. 72.48 Lacs**, EMD **Rs. 1,45,000/-**
Sale of Tender **21.09.2017 to 05.10.2017**

Complete details of the works can be seen at our website www.tenderhome.com & www.csirhrdg.res.in. For enquiries, if any, contact **SO (Engg.)**, Engineering Services Division, CSIR Complex, NPL Campus, Pusa, New Delhi-110012(Tele: 011-25848121).

Chief Engineer (ESD)

**NAME OF WORK: Structural Strengthening of Block - D & adjacent areas of Scientist Apartments at
Maharani Bagh, Ashram Chowk, New Delhi.**

C O N T E N T S

S.NO:	DESCRIPTION:	NO.OF PAGES:
1.	Contents	01
2.	Notice Inviting Tenders	06
3.	Scope of work	0 1
4.	Abstract of cost & Summary sheet	02
5.	Schedule of quantities	18
6.	List of Approved make	01
7. (A)	Condition of Contract for works(English)	25
(B)	Amendments to Condition of Contract	05
	C.P.W.D. Civil Specifications 2009 Vol. I &Vol -II and Electrical specifications of 2005 Part I & II	

Can be seen in the office of the Chief Engineer(ESD), CSIR Complex, Pusa, New Delhi-110 012

NOTE:

1. Tenderer should confirm that they have received all the above papers. All the documents issued are to be returned duly signed by the tenderer while submitting his offer.

TENDER ISSUED TO :

M/s _____ TELEPHONE NO : _____ (IF ANY)

SIGNATURE OF THE OFFICER ISSUING TENDER

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

*****NOTICE INVITING TENDERS*****

1. Item rate sealed Tenders are hereby invited for **Structural Strengthening of Block - D & adjacent areas of Scientist Apartments at Maharani Bagh, Ashram Chowk, New Delhi** from contractors working with CPWD, Railways, MES, Post & Telegraph Department State PWD'S, Semi - Govt. Organizations and/or from those who have worked for CSIR or its Laboratories / Institutes and have successfully carried out **minimum one/two/three similar works of Specialized structural repairs/rehabilitation works for strengthening of buildings, amounting to ₹ 57.98 Lakh/ 43.49 Lakh/ 28.99 Lakh respectively** and above during last 7 years need apply with proof of fulfilling the above conditions along with GST registration no. and PAN CARD while making request for issue of tender document.
2. The estimated Cost of ₹ 72.48 lakh (₹ Seventy two lakh and forty eight thousand only) which is largely based on CPWD DSR 2016 & few market rate items.
3. Time for carrying out the work is **five months** and the date of commencement shall be reckoned from the **tenth day of issue of award letter/intimation letter** for the work.
4. Complete Contract documents to be complied with by the tenderer whose tender may be accepted can be seen at the office of the **Chief Engineer, Engineering Services Division, CSIR Complex, Library Avenue, Pusa, New Delhi – 110012 .**
5. Tenders should be on the specified form (Non-transferable) which may be obtained from the Office of the **Chief Engineer, Engineering Services Division, CSIR Complex, Library Avenue, Pusa, New Delhi- 110 012** during office hours on payment of **Rs. 1000/- (Rs. One thousand only)** in cash (up to 3:00 pm only) or as demand draft of a schedule bank drawn in favour of **CSIR COMPLEX, New Delhi** (Non-refundable), after getting the required documents checked from the office of Maintenance Division, CSIR Scientist Apartments, Maharani Bagh, New Delhi and seeing the prevailing site conditions. Sale of tenders shall be from **21.09.2017 to 05.10.2017** during office hours.
6. Tenders should be submitted in double sealed covers super scribed with the name of the work, date and time of opening written both on the inner and outer envelopes. They will be received back up to **3.00 P.M.** on **09.10.2017** and will be opened at **3.30 PM** on the same day in the office of the **Chief Engineer, Engineering Services Division, CSIR Complex, Library Avenue, Pusa, New Delhi-110 012.** Tender should be dropped in the tender box before the closing date and time indicated. In case these are sent by post these should be sent by **Regd. post/ Speed post** addressed to the **Chief Engineer, Engineering Services Division, CSIR Complex, Library Avenue, PUSA, New Delhi - 110012.** Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date indicated.

7. The Earnest Money amounting to ₹ 1,45,000/- (₹ One Lakh forty five thousand only) as demand draft or pay order of a schedule bank drawn in favour of **CSIR Complex, New Delhi** should accompany along with tender document . The Tender received without or insufficient EMD will be rejected.
8. Earnest money will be fully forfeited if the contractor fails to commence the work as per letter of award. If any tenderer withdraws this tender within the validity period or makes any modification in terms and conditions of the tender which are not acceptable to the department, then CSIR shall without prejudice to any right or remedy, be a liberty to forfeit 50% (Fifty percent) of the Earnest Money absolutely.
9. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.
10. The tenderer shall not be permitted to tender for works in the concerned unit of CSIR in which a relative is posted in the grade between Controller of Administration and Junior Engineer.(both inclusive) He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who are relatives as mentioned above.

NOTE :

A person shall be deemed to be a relative of another if, and only if, (a) they are members of a Hindu undivided family; or (b) they are husband and wife; or (c) the one is related to the other in the following manner: Father, Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's son's wife, Son's daughter, Son's daughter's husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

11. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.
12. The tenderer shall quote rates both in figures and words. He shall also workout the amount for each item of work and writes in both figures and words. On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed:
 - i) When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the tenderer, shall be taken as correct.
 - ii) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.
 - iii) When the rate quoted by the tenderer in figures and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.

- iv) When no rates have been quoted for any item(s), leaving space/column(s) both in figures & words and amount unfilled. It will be considered that the tenderer has included cost of the item in other items and rate for such item will be treated as 'zero' and work will be required to be executed accordingly.
13. The tenderer should see drawings and in case of doubt obtain required particulars, which may in any way influence his tender from the Engineer as no claim whatsoever will be entertained for any alleged ignorance thereof.
14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants (T&P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the **Employer** in any circumstances.
15. The **Employer** does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted along with the tender.
17. Some of the provisions of General Conditions of Contract are given below. Interpretation however shall be as given in the General Conditions of Contract.
- a). **DEFECTS LIABILITY PERIOD** - Twelve months from the date of completion as certified by the **Employer**.
- b). **MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE-**
₹ 14.50 lakh (₹ Fourteen lakh and fifty thousand only) Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Engineer in Charge.
- c). **SECURITY DEPOSIT** A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award issued to him
- d). **COMPENSATION** Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the **Employer** (whose decision in writing shall be final) may decide on the cost of the whole work as shown in the agreement for every week that the work remains uncommenced or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the estimated cost of the work as shown in the agreement.

18. Stores to be issued :

No material will be issued by the department. Contractor has to arrange all materials including cement & steel required for this work:

19. ADDITIONAL CONDITIONS OF CEMENT AND STEEL

19.1. CONDITIONS FOR CEMENT

- 19.1.1 The contractor shall procure 43 grade (conforming to IS:8112) or 53 grade (conforming to IS:12269) ordinary port land cement, as required in the work, from reputed manufacturers of cement, having a production-capacity of one million tons per annum or more, such as ACC, L & T, J.P. Rewa, Vikram, Shri Cement, Birla Jute and Cement Corporation of India etc., as approved by Ministry of Industry, Government of India, and holding license to use ISI certification mark for their product whose name shall be got approved from Engineer-in-charge. Supply of cement shall be taken in 50 Kg. bags bearing manufacturer's name and ISI marking, samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.
- 19.1.2. The cement shall be brought at site in bulk supply of approximately 50 tones or as decided by the Engineer-in-charge.
- 19.1.3 The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provisions shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge at any time.
- 19.1.4 The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor.
- 19.1.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in Clause 6 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 6 of the contract and shall be governed by conditions laid therein.
- 19.1.6 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

19.2. CONDITIONS FOR STEEL

19.2.1. The contractor shall procure steel reinforcement bars conforming to relevant BIS codes from reputed manufacturers as approved by the Engineer-in-charge. The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from written orders from the Engineer-in-charge to do so.

19.3. The steel reinforcement shall be brought to the site in bulk supply of 10 tons or more as decided by the Engineer-in-charge.

19.3.1. The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

19.3.2. For checking nominal mass, tensile strength, bend test, re-bend test etc., specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

Size of bar	For consignment below 100 tones	For consignment over 100 tones
Under 10 mm dia	One sample for each 25 tones or part thereof.	One sample for each 40 tones or part thereof.
10 mm to 16 mm dia	One sample for each 35 tones or part thereof	One sample for each 45 tones or part thereof.
Over 16 mm dia	One sample for each 45 tones or part thereof	One sample for each 50 tones or part thereof.

19.3.3. The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor.

19.3.4. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in Clause 6 of the contract. The theoretical consumption of steel shall be worked out as per procedure in Clause 6 of the contract and shall be governed by conditions laid therein.

19.3.5. Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

20. Clause 28 of the Condition of Contract for works i.e. **“Escalation”** will not be applicable in this contract.
21. **As the site of work is in restricted area, hence there will be curbing on traffic movement in specified hours. No extra payment will be made on this account.**
22. **As the work is to be taken up in the running residential apartments, the contractor should plan the execution of work in such a way that the residents are not disturbed. No extra payment will be made on this Account.**
23. **There may be significant dismantling works at site, therefore, contractor will be required to protect the floors from damages by his own arrangements. Further, the contractor shall take special care for isolating the area to be repaired from other locations using tarpaulin sheets etc., and removal of debris from the work spot on daily basis. In addition, the contractor will take necessary precautions for safe dismantling of damaged areas of building and ensure that the dismantled debris/materials are collected at scaffolding itself and transported safely to ground floor. No extra payment will be made on this Account.**
24. **It is essential to deploy full time qualified and experienced engineer for supervision of work as per the terms and conditions of GCC in tender.**

Name of Work : Structural Strengthening of Block - D & adjacent areas of Scientist Apartments at Maharani Bagh, Ashram Chowk, New Delhi.

Scope of Work: The scope of work broadly includes the followings:

1. Chipping of unsound/weak concrete material from slabs, beams, columns etc.
2. The highly damaged portion of columns will be treated by providing SBR modified plain/reinforced concrete jacket with use of super plasticizers for rendering concrete as flowable self compacting.
3. Polymer Modified Mortar will be applied in under ceilings/staircase, where extent of damage is nominal or medium. PMM is also considered for replacement of rough cast plaster in the external periphery of the building.
4. Shot-creting will be done on highly damaged under ceilings of staircases/corridors etc.
5. Epoxy injection grouting has been considered for cracked/honey combed areas in RCC.
6. Drilling suitable holes in RCC for shear keys i.e., fixing of steel bars in position using epoxy resin anchor grouts.
7. Additional reinforcement/hard drawn steel wire fabric will be fixed as per requirement, before application of above treatments in structural members based on extent of damage.
8. Reinforcement will treated with rust remover, anti-corrosive coatings etc.
9. Bonding coats will be applied on old concrete/ new concrete joints.
10. Dismantling of one side RCC wall of balconies & replacing it with M.S.grills.
11. Dismantling of RCC terrace parapet wall & replacing it with brickwork & RCC coping at top.
12. Forming grooves in joints of concrete and brickwork.
13. External painting of D-block and adjacent corridors.
14. Provision of M.S. safety net in other critical areas of MBSA proposed to be taken up in next phases.
15. Misc plumbing/sanitary & other related civil works.
16. Some electrical & services works considered under Sub-Head-II.

LIST OF MAKE / BRAND OF THE MATERIAL TO BE USED AT SITE

(All the materials must be ISI marked)

1. Cement : Ambuja, Ultratech, ACC
2. Epoxy resin Anchor grout : Lokfix P 25 of Fosroc or equivalent of SIKA / BASF
3. Anti-corrosive zinc epoxy primer : Nitozinc primer of Fosroc or equivalent of SIKA / BASF
4. Bonding coat (SBR polymer) : Nitobond SBR (Latex) of Fosroc or equivalent of SIKA / BASF
5. Bonding coat (Epoxy adhesive) : Nitobond EP of Fosroc or equivalent of SIKA / BASF
6. SBR Polymer : Nitobond SBR of Fosroc or equivalent of SIKA / BASF
7. Super plasticizer : Conplast SP 430 of Fosroc or equivalent of SIKA / BASF
8. Epoxy injection grout : Conbextra EP 10 of Fosroc or equivalent of SIKA / BASF
9. White cement wall putty : JK / Birla.
10. Premium Acrylic smooth exterior paint with silicone additives: Apex Ultima of Asian or equivalent.
11. OBD, Synthetic paint & primers etc : Asain/ ICI/ Burger/ Nerolac/Shalimar.
12. UPVC pipes : Supreme/Finolex/Prince
13. UPVC fittings : Supreme/Finolex/Prince
14. Ceramic/rectified/vitrified tiles : Nitco/Orient/Kajaria/Somany
15. CI pipes/ fittings : RIF/NECO/NIF or equivalent
16. RCC/ C.I covers : KK spun / RIF (ISI) or equivalent

NOTE: Make of the material which are not mentioned in the above list will be got approved by the Engineer- In- Charge.