

**NAME OF WORK: - CONSTRUCTION OF INCOME TAX OFFICE AND
GUEST HOUSE CUM TRANSIT ACCOMMODATION
CAMP AT FIROZABAD,UP.**

NIT No. : HPL/AGM(C)/NIT/FZBD/2011-12/ 57 DT :17-02-2012

ESTIMATED COST:- RS. 464.23 Lacs

TECHNICAL BID

ISSUED TO : _____

**HINDUSTAN PREFAB LIMITED
(A GOVT. OF INDIA ENTERPRISE)
JANGPURA, NEW DELHI-110014
Phone No. : 43149800-99
Fax : 011-43149865,26340365
Web site : www.hindprefab.org**

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Addl. General Manager (Civil), HPL

HINDUSTAN PREFAB LIMITED
(A Govt. of India Enterprise)
JANGPURA, NEW DELHI: 14

PRESS NOTICE

NOTICE INVITING TENDER

NIT No. : HPL/AGM(C)/NIT/FZBD/2011-12/57

Dated; 17-02-2012

Sealed tenders are invited by the undersigned on behalf of Income Tax Deptt. from firms/contractors of repute for **CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD,UP.** . The last dates of sale and receipt of tenders are **05-03-2012** and **07-03-2012**. The estimated cost of work is Rs. 464.23 lacs. For the detailed NIT intending tenderers may log on to the HPL website www.hindprefab.org

Addl. General Manager (Civil)

HINDUSTAN PREFAB LIMITED
(A Govt. of India Enterprise)
JANGPURA, NEW DELHI: 14

NOTICE INVITING TENDER

NIT No. :HPL/AGM(C)/NIT/FZBD/2011-12/57

Dated; 17-02-2012

Sealed item rate tenders are invited by the undersigned on behalf of Income Tax Deptt. from firms/contractors of repute in Three Bid System (earnest money with Tender cost, Technical Bid & Financial Bid) in separate envelopes for the following work.

S. No.	Name of Work	Estimated cost (Rs. in Lacs)	Earnest money deposit (Rs. in Lacs)	Cost of Tender document (In Rs.)	Time allowed for completion	Last date & time of receipt of applications for issue of tender	Last date & time for issue of tender documents	Date & time of receipt of Tenders	Date & time of opening of Technical bids
1	CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD,UP	464.23 Lacs As per details Attached	9.28	1,500.00	9 Months	05-03-2012 Upto 3:00 PM	05-03-2012 upto 5:00 PM	07-03-2012 upto 3:00 PM	07-03-2012 at 3:30 PM

Tender documents can be had from the office of the Addl. General Manager, (C) at Hindustan Prefab Limited, Jangpura, New Delhi : 110 014. upto the date & time indicated above. Alternatively it can be downloaded from HPL' website.

For complete tender documents please log on to HPL' website www.hindprefab.org

Addl. General Manager (Civil)HPL

HINDUSTAN PREFAB LIMITED
(A Govt. of India Enterprise)
JANGPURA, NEW DELHI: 14

S.No	Particulars	Estimated cost (In Rs Lacs)
1	Component 1 – Civil works	366.93
2	Component 2 – Internal Electrical Works	97.30
	Total Estimated Cost	464.23

Signature of Tenderer

Page No.5

Addl. General Manager (Civil)

HINDUSTAN PREFAB LIMITED
JANGPURA, NEW DELHI :14

Details of NIT

CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD,UP.

NIT NO: - HPL / AGM C)/NIT/ FZBD/2011-12/ 57

Dated: 17-12-2012

1.1 The work is estimated to cost **Rs. 464.23 Lacs** with the detail as mentioned below.

S. No.	Name of work	Estimated cost (Rs. In Lacs)
1.00	CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD, UP.	464.23

The estimate, however, are given merely as a rough guide.

- 1 Tenders will be issued to all firms and contractors of repute. Issue of tender documents shall not be construed as qualifying in technical bid. First the technical bids submitted by the firms/contractors along with the earnest money as prescribed shall be evaluated as per standard procedure. Bids submitted without the tender cost(for downloaded tender documents from web-site) and earnest money as prescribed shall not be opened at all and shall be summarily rejected. The financial bids of those tenderers shall only be opened who qualifies in the technical bid. The date and time of opening of financial bid shall be intimated in due course of time.
2. Agreement shall be drawn with the successful tenderer on Special Conditions of Contract along with prescribed Form No. CPWD-7/8 (Latest edition 2010 with up to date corrections and amendments) which is available as a Govt. of India Publication. And which shall be part of agreement. Tenderer shall quote his rates as per various terms and conditions of CPWD form7 & 8 and special conditions of contract which will form part of the agreement.
3. The time allowed for carrying out the work will be **9 Months** reckoned from the 15th day after the date of written orders to commence the work or from the first day of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work shall be made available in complete
- 5.a) (i) Receipt of applications for issue of tender documents shall be as per detail given in Press Notice.
(ii) Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the tender issuing authority between hours of 11.00 a.m. & 3.00 p.m. from **24-02-2012 to 05-03-2012** everyday except on Sundays and Public Holidays. Tender documents, excluding standard form, will be issued from his office, during the hours specified above, on payment of **Rs. 1,500.00** in cash /demand draft in favour of Hindustan Prefab Limited & payable at New Delhi as cost of tender.
- 5b) Alternatively the interested parties can download the complete tender document from HPL website www.hindprefab.org Tenders downloaded from website shall have to be accompanied with the Tender cost of Rs. 1,500.00 in the form of Demand Draft drawn in favour of Hindustan Prefab Limited & payable at New Delhi.
- 5c) Tenderers shall deposit Earnest Money of **Rs. 9.28 lakh** in the form of Demand Draft issued in favour of Hindustan Prefab Limited and payable at New Delhi
6. (A) Technical Bid shall comprise of the following:- (**For tenderer other than Empanelled with HPL**)
 - (a) Technical Bid Document (issued by HPL or downloaded from web-site of HPL) along with prescribed annexure.
 - (b) Technical specifications(if any)
 - (c) Schedule B to F issued by HPL or downloaded from the web-site of HPL
 - (d) Special Conditions of Contract & other document.
 - (e) List of materials of approved makes / brands (Civil/Electrical).
 - (f) Documents required for eligibility.
- (B) (a) **For eligible Empanelled contractor of HPL, the technical bid shall comprise the letter of registration issued by HPL vide NIT No. 18/2011 dt 09-09-2011 & tender documents mentioned at 6(A) a to e .**

6.1 Financial Bid

- (a) Bill of Quantities (Schedule A), issued by HPL or downloaded from the web-site of HPL.
 - (b) Rebate, if any offered by the tenderer, shall be mentioned in Schedule A only. Conditional Rebate and rebate mentioned at any other place than the place specified shall not be considered in any circumstances
7. Duly filled up tender documents comprising of Technical bid & Financial bid supported by prescribed Annexures should be submitted in sealed envelopes duly super-scribed with the name of work and due date of opening as per instructions given below.
 - a) Cost of tender forms, if downloaded from website, and Earnest money deposit in the manner prescribed in a separate cover marked “**EARNEST MONEY & TENDER COST**”---- Envelope 1.
 - b) Technical Bid as prescribed above and placed in an Envelope 2 shall be sealed and super-scribed with the words”**Technical Bid for (Name of the Project)and name of the firm/contractor**”.
 - c) The duly filled up Bill of quantities and other schedules or conditions, if any as prescribed above shall be put in a separate sealed envelope marked “**Financial bid for (Name of the Project) and name of the firm/contractor**”.---- Envelope 3.
 - d) All three envelopes shall be properly sealed and put together in a single envelope and sealed properly and super-scribed as “**Technical and Financial bids for (Name of the Project) with due date of opening and name of the firm/contractor**”.
8. The contractor shall be required to deposit an amount equal to 5% of the contract value of the work as performance guarantee in the form of an irrevocable bank guarantee bond of any scheduled bank or State Bank of India in accordance with the form prescribed within 15 days of the issue of letter of acceptance. This period can be further extended by the Engineer- in -Charge up to a maximum period of 7 days on written request of the contractor. The performance Bank Guarantee should be kept valid for contract period and inclusive of Defect Liability Period. In case the contract value gets revised , the performance Bank Guarantee for balance amount / exceeded amount shall be provided by the tenderer..
9.
 - (i) The description of the work is as follows :- **Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP).**
 - (ii) Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the tender issuing authority.
 - (iii) Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies as other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for worker and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant etc. will be issued to him by the HPL on behalf of Income Tax Deptt. and local conditions and other factors having a bearing on the execution of the work.
10. (i) The HPL on behalf of Income tax officer and in the name of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
10. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
11. The HPL on behalf of Income tax office and in the name of the President of India reserves to himself the right of acceptance the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
11. The tender for the works shall remain open for acceptance for a period of **90 days** (Ninety days) from the date of opening of financial Bid. Date of Opening of financial bid shall be intimated in due course to those tenderers who qualify in Technical Bid. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then HPL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.

13. This notice inviting Tender shall form a part of the contract document. The successful tenderer/ contractor, on acceptance of his tender by the Accepting Authority, shall within 15 days from the written orders to commence the work, sign the contract consisting of :-
- a) The notice inviting tender all the documents including Additional or special conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Standard CPWD Form 7/8 (Latest edition 2010 with up to date corrections and amendments).
- 14.1 The tenderer, if required by him, must associate with himself agencies eligible to tender for the other components individually.
- 14.2 It will be obligatory on the part of the tenderer to sign the tender document for all the components (The schedule of quantities, conditions and special conditions etc.)
- 15 (a) This NIT is also available on HPL Web-site www.hindprefab.org
- (b) No Postal enquiry shall be entertained for issue of tender documents.
16. A pre bid conference shall be held on dated 02-03-2012 at 03:00 PM.. The Tenderers who wish to be present may attend the conference at Hindustan Prefab Limited, Jangpura, New Delhi – 14

Signature of Tenderer

Page No. 8

Addl. General Manager (Civil)

HINDUSTAN PREFAB LIMITED

Item Rate Tender & Contract for Works

(A) Tender for the work of: - Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP)

(i) To be submitted by **03:00 PM on 07-03-2012** to Addl. General Manager (Civil Hindustan Prefab Limited, Jangpura, New Delhi-110014.

ii) To be opened in presence of tenderers who may wish to be present **at 03.30 PM on 07-03-2012** in the office of AGM (Civil) Hindustan Prefab Limited, Jangpura, New Delhi-110014.

Issued to

Signature of officer issuing

the documents _____

Designation _____

Date of Issue _____

TENDER

I/We have read and examined the notice inviting tender, schedule A(Bill of Quantities),B.C,D,E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, schedule of Rates & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified by the Addl. General Manager (Civil), HPL on behalf of Income tax office and in the name of the President Of India with in the time specified in Schedule's, viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule- 1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as per provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the date of opening of financial bid and not to make any modifications in its terms and conditions.

A sum of Rs _____ lacs has been deposited in _____ as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Addl. General Manager (Civil) HPL or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that Addl. General Manager (Civil) HPL or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeitures of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

"I/We undertake and confirm that eligible similar work (s) has/have been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Date

Witness

**HINDSUTAN PRREFAB LIMITED
JANGPURA, NEW DELHI: 14**

SECTION I

INTRODUCTION

SCOPE OF WORK

Income Tax Deptt had retained M/s Hindustan Prefab Limited, a CPSU under the Ministry of Housing and Urban Poverty Alleviation, as Executing Agency for the Construction of Income Tax Office and Guest house cum Transit accommodation camp at Firozabad, UP. The work of **Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP) is Green Building** for which this tender is being invited by Hindustan Prefab Limited on behalf of Income Tax Deptt.

BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which tenders are invited are as under :-

S.No.	NAME OF WORK	APPROX COST	PERIOD OF COMPLETION
1.	CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD,UP NIT No. HPL/AGM(E)/NIT/FZBD/2011-12/57 dated 17-02-2012	464.23 Lacs	9 Months

The scope of work involves **Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP).**

Sh : Civil and Electrical works.

Site Location:-

- The site is located at **Dabrai, Firozabad,UP.**
- Work shall be executed according to General Conditions of Contract for Central PWD Works (Latest edition 2010 with up to date corrections and amendments) available separately at printer's outlets. However, there shall be some special conditions of contract which will override/supplement General Conditions of contract for Central PWD works (as the case may be). The Special Conditions of Contract shall be supplied along with tender and B.O.Q.

SECTION II

INFORMATION & INSTRUCTIONS FOR APPLICANTS

- 1.0 General:
- 1.1 Letter of transmittal and forms for technical bid are given in Section III.
- 1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or no such case" entry should be mentioned made in that column. If any particulars/query is not applicable in case of the applicant, it should be stated as "not applicable". The applicants are cautioned that not giving complete information called for in the technical document or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by telegram or Fax and those received late will not be entertained.
- 1.3 The application should be type written. The applicant should sign each page of the tender document. The unsigned document & without seal shall not be considered for evaluation of technical bid.
- 1.4 Over writing should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the technical bid documents are numbered. Additional sheets, if any Added by the contractor should also be numbered by him they should be submitted as a package with signed letter of transmittal.
- 1.5 References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.6 The applicant may furnish any Additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is however, advised not to furnish superfluous information. No information shall be entertained after submission of tender documents unless it is called for by the HPL.
- 1.7 Any information furnished by the applicant found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/ taking up of work in HPL. If such applicant happens to be enlisted contractor of any class in HPL, his name shall also be removed from the approved list of contractors.
- 1.8 The technical bid document and financial bid document in prescribed form duly completed and signed should be submitted in a sealed cover and as prescribed in NIT.
- 1.9 **Material and methodology for the construction of the building must be as per GRIHA rating criteria, as the building is a Green Building.**
- 1.10 Entire building should be constructed as per GRIHA Green building recommendation to obtain **5 star rating**.
- 1.11 **As these building will have green building features, contractors are expected to provide adequate and complete documentation towards obtaining certificate from GRIHA.**
- 1.12 Prospective applicants may request clarification of the project requirements, technical bid document and financial bid document. **Any clarification given by HPL will be pasted on HPL website www.hindprefab.org on or before 05-03-2012 which shall also form part of tender document.**

2.0 DEFINITIONS

- 2.1 In this document the following words and expressions have the meaning hereby assigned to them.
- 2.2 **Employer:** - Means the Hindustan Prefab Limited, acting on behalf of Income tax office and in the name of President of India.
- 2.3 **Applicant:**- Means the individual, proprietary firm, firm in partnership, limited company, private or public or corporation.
- 2.4 **"Year"** means "Financial Year" unless stated otherwise.
- 2.5 **"Similar Work"** means construction of residential, commercial, corporate, hotels, hospitals and such similar building structures (applicable for main tenderers and composite tenderers only)

- 2.6 **“Main Tenderer”** means the person/ firm specializing in executing the work of component bearing the highest estimated cost in respect to other components in the group and who shall sign the single agreement considering all components in the group.
- 2.7 **“Associates”** means the person/firm (associated with the main tenderer) who has specialization in executing the component of work other than the main component and who is associated with the main tenderer to execute the work of the said component.
- 2.8 **“Component of Work”** means the work(s) as stated in detailed NIT.
- 2.9 **“Composite Work”** means the work inclusive of component 1 & 2 put together (civil & electrical work)
- 2.10 **“Composite Tenderer”** means who are having the required and requisite experience in composite works.

3.0 METHOD OF APPLICATION:

- 3.1 If the applicant is an individual, the application shall be signed by him above his full typewritten name and current Address.
- 3.2 If the applicant is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current Address.
- 3.3 If the applicant is a firm in partnership, the application shall be signed by all the partners of the firm above their full type written name and current Addresses or alternatively by a partner holding power of attorney for the firm. In the latter case a certified copy of the Power of Attorney should accompany the application. In both cases a certified copy of the partnership deed and current Address of all the partners of the firm should accompany the application.
- 3.4 If the applicant is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The applicant should also furnish a copy of the Memorandum and Articles of Association duly attested by a Public Notary/Gazetted Officer.

4.0 FINAL DECISION MAKING AUTHORITY

The employer reserves the right to accept or reject any application and to annul the tender process and reject all applications at any time, without assigning any reason or incurring any liability to the applicants.

- 5.0 Particular provisions :- The particular's of work given in section I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

6.0 SITE VISIT

The applicant is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he consider necessary for proper assessment of the prospective assignment.

7.0 INITIAL CRITERIA FOR ELIGIBILITY FOR TECHNICAL BID

(A) For Empanelled contractor of HPL

The applicant should have been registered/empanelled with HPL in requisite category and shall submit the certificate of empanelled/registration with HPL vide NIT No 18/2011 dt. 09.09.11 in technical bid & no need to submit document mentioned at 7.1 to 7.9.

(B) For tenderer other than empanelled

The criteria of eligibility of composite tenderer and main tenderer along with associates shall be as under:-

Initial eligibility for the component 1(civil component) only:-

- 7.1 The applicant should have experience of having successfully completion of works during the last seven years ending last day of the month previous to the one in which applications are invited:

- (A) (i) Three similar completed works costing each not less than the amount equal to **40%** of estimated cost of component 1 put to tender,

OR

Two similar completed works, each of value not less than **50%** of the estimated cost put to tender

OR

One similar completed work of value not than **80%** of the estimated cost put to tender

AND

- (ii) one completed work of any nature (either part of (i) or a separate one) costing not less than the amount equal to 40% of the estimated cost put to tender with some Central/State Government Organization /Central Autonomous Body/Central Public Sector undertaking.

(iii) Similar work shall mean works of civil & electrical work.

(iv) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for tenders.

(B) Initial eligibility for the component 2, (internal electrical) only

The applicant should have experience of having successfully completed works during the last seven years ending last day of the month previous to the one in which applications are invited:

(i) Three similar completed works) costing each not less than the amount equal to 40% of estimated cost of component 1 put to tender,

OR

Two similar completed works, each of value not less than 50% of the estimated cost put to tender

OR

One similar completed work of value not than 80% of the estimated cost put to tender

AND

(ii) One completed work of any nature (either part of (i) or a separate one) costing not less than the amount equal to 40% of the estimated cost put to tender with some Central/State Government Organization /Central Autonomous Body/Central Public Sector undertaking.

For this purpose, 'cost of work' shall mean gross value of the completed work including the cost of materials supplied by the Govt./ Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer/ Project Manager or Equivalent.

Note 1:- The composite tenderer should be eligible for all the components separately as mentioned above.

Note 2:- The main tenderer should be eligible for component 1 as prescribed and he may enter into an association with other associates for component 2. The other associates should be eligible as prescribed in Para 7.1(B) for their components respectively. The bidder should have Electrical Contractor License in their own firm name or their associate's parties for internal Electrical works

Note 3:- The initial eligibility of composite tenderer and the main tenderer shall further be determined as prescribed in Para 7.2 to 7.5 with respect to total estimated cost of the project put to tender.

7.2 The applicant should have had average annual financial turnover (gross) of 30% of total estimated cost put to tender during the last three years ending 31st March 2011. This should be duly audited by a Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.

7.3 The applicant should not have incurred any loss in more than two years during the last five years ending 31st March 2011 and it shall be duly certified by the Chartered Accountant.

7.4 The bidding capacity of the contractor should be equal to or more than the total estimated cost of the work. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = A * N * 2 - B$$

Where.

A = Maximum value of construction works executed in any one year during the last seven years taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of work for which pre-qualification application has been invited.

B = Value of existing commitments and on going works to be completed during the period of completion of work for which pre-qualification has been invited.

7.5 The applicant should have a solvency of 40% of total estimated cost put to tender certified by his Bankers. The Bank solvency should be issued from schedule Bank and in the name of HPL or to whom so it may concern.

7.6 The applicant should own construction equipment as per list required for the proper and timely execution of the work, Else, he should certify that he would be able to manage the equipment by hiring etc. and submit the list of firms from whom he proposes to hire.

- 7.7 The applicant should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The applicant should submit a list of these employees stating clearly how these would be involved in this work.
- 7.8 The applicant's performance for each work completed in the last 7 years and in hand should be certified by an officer not below the rank of Executive Engineer or equivalent and should be obtained in sealed cover.
- 7.9 I/we undertake and confirm that eligible similar works (s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department , than I /we shall be debarred for tendering in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer _in Charge shall be free to forfeit the entire amount of Earnest Money Deposit /Performance Guarantee.”

8.0 EVALUATION CRITERIA FOR TECHNICAL BID

8.1 For the purpose of evaluating technical bid, applicants will be evaluated in following manner :

- 8.1.1 The initial criteria prescribed in Para 7.1 to 7.6 above in respect of experience of similar class of works completed, bidding capacity and financial turnover etc. will first be scrutinized for the composite tenderer and main tenderer and the applicant's eligibility for qualifying technical bid for the work be determined as prescribed above.
- 8.1.2 The applicants qualifying the initial criteria as set out in para 7.1 to 7.6 above will be evaluated for following criteria by scoring method on the basis of details furnished by them:

a) Financial strength (Form A & B) –	Max 20 Marks
b) Experience in similar nature of works during last seven years (Form 'C') -	Max 20 Marks
c) Performance on works (Form E) Time over run –	Max 20 Marks
d) Performance on works (Form E) Quality –	Max 15 Marks
e) Personnel and Establishment (Form 'G') –	Max 10 Marks
f) Plant & Equipment (Form 'H') -	Max 15 Marks

Total	100 Marks

To qualify, the applicant must secure at least fifty percent marks in works of similar nature), sixty percent marks in aggregate.

The department, however, reserves the right to restrict the list of qualified contractors to any number deemed suitable by it.

8.1.3 Even though an applicant may satisfy the above requirements, he would be liable to disqualification if he has:

- a) Made misleading or false representation or deliberately suppressed the information in the forms, statements and Enclosures required in the pre-qualification document.
- b) Record of poor performance such as abandoning work, not properly completing the contract, or financial failures/ Weaknesses etc.

9.0 FINANCIAL INFORMATION

Applicant should furnish the following financial information:

Annual financial statement for the last five year (in Form “A”) and solvency certificate in (form B)

10.0 EXPERIENCE IN CIVIL WORKS / COMPOSITE WORKS HIGHLIGHTING EXPERIENCE IN SIMILAR WORKS

10.1 Applicant should furnish the following:

- a) List of all works of similar class successfully completed during the last seven years (in form “C”)
- b) List of the projects under execution or awarded (in Form “D”)

Signature of Tenderer

Page No.14

Addl. General Manager (Civil)

10.2 Particulars of completed works and performance of the applicant duly authenticated/ certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work completed or in progress (in Form “E”).

11.0 ORGANISATION INFORMATION

Applicant is required to submit the following information in respect of his organization (in Form "F" & "G")

- a) Name & Postal Address, i/c Telephone, Fax & Telex Number etc.
- b) Copies of original documents defining the legal status, place of Registration and principal places of business.
- c) Names & Title of Directors and Officers to be concerned with the work, with designation of individuals authorized to act for the organization.
- d) Information on any litigation in which the applicant was involved during the last five years, including any current litigation.
- e) Authorization for employer to seek detailed references.
- f) Number of Technical & Administrative Employees in parent company, subsidiary company and how these would be involved in this work (in Form "G")

12.0 CONSTRUCTION PLANT & EQUIPMENT

Applicant should furnish the list of construction plant and equipment including steel shuttering, centering and scaffolding likely to be used in carrying out the work (in Form "H"). Details of any other plant & equipment required for the work (not include in Form "H") and available with the applicant may also be indicated.

13.0 LETTER OF TRANSMITTAL

The applicant should submit the letter of transmittal attached with technical bid document.

14.0 AWARD CRITERIA

- 14.1 The employer reserves the right, without being liable for any damages or obligation to inform the applicant to:
 - a) Amend the scope and value of contract to the applicant.
 - b) Reject any or all of the applications without assigning any reasons.
- 14.2 Any effort on the part of the applicant or his agent to exercise influence or to pressurize the employer would result in Rejection of his application. Canvassing of any kind is prohibited.

**SECTION III
LETTER OF TRANSMITTAL**

From :

To
The Addl. General Manager (Civil)
Hindustan Prefab Limited,
Jangpura, New Delhi-110014.

SUBJECT : Submission of technical bid for the work of **Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP)**

NIT :- HPL/AGM(E)/NIT/FZBD/2011-12/57 ,dated 17-02-2012

Sir,

Having examined the details given in NIT, press-Notice and technical bid document for the above work, I/We hereby submit the technical bid document and other relevant information.

- i) I /We hereby certify that all the statements made and information supplied in the enclosed forms A to F and accompanying statement are true and correct.
- ii) I / We have furnished all information and details necessary for technical bid evaluation and have no further pertinent information to supply.
- iii) I /We submit the requisite certified solvency certificate and authorize the Addl. GM (E), HPL or his authorized representatives to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize Addl. GM (E), HPL or his authorized representative to approach individuals, employers, firm and corporation to verify our competence and general reputation.
- iv) I /We submit the following certificates in support of our suitability, technical know- how and capability for having successfully completed the following works.

Name of Work

Certificate from

Enclosures :

Seal of Applicant

Signature of Applicant (s)

Date of Submission

Signature of Tenderer

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Addl. General Manager (Civil)

FORM 'A'

FINANCIAL INFORMATION

To be filled by the composite tenderer and main tenderer

Financial Analysis - Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last five years duly certified the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached)

YEARS

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I. i) Gross Annual Turnover
on construction works

ii) Profit/ Loss

II. Financial arrangement for carrying out the proposed work

III The following certificates are enclosed:

a) Current Income Tax Clearance Certificate

b) Solvency Certificate from Bankers of Applicant in the prescribed form 'B'

Signature of Applicant(s)
Bidder (S)

Signature of Chartered Accountant with Seal

FORM 'B'

FROM OF BANKER'S CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s./Sh..... having marginally noted Address, a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs.(Rupees.....)

This certificate is issued without any guarantee or responsibility on the bank or any the officers.

(Signature)
For the Bank

NOTE (1) Bankers certificates should be on letter head of the Bank, sealed in cover Addressed to tendering authority.
(2) In case of partnership firm , certificate should include names of all partners as recorded with the Bank

Signature of Tenderer

Page No. 17

Addl. General Manager (Civil)

FORM -C

DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST SEVEN YEARS ENDING LAST DAY OF THE MONTH (JUNE- 2011).

(Separate proforma to be filled for each component by the composite tenderer and the main tenderer)

1	2	3	4	5	6	7	8	9	10	11
S. No.	Name of work/ project and location	Owner or sponsoring organization	Cost of work in crores	Date of commencement as per contract	Stipulated date of completion	Actual Date of completion	Litigation/Arbitration pending/ in progress with details*	Name and Address /telephone number] of officer to whom reference may be made	Star rating of Bulding according to GRIHA rating system	Remarks

*Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Applicant(s)

Signature of Tenderer

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Addl. General Manager (Civil)

PROJECT UNDER EXECUTION OR AWARDED

(Separate proforma to be filled for each component by the composite tenderer and main tenderer)

S No:	Name of work/ project and location	Owner or sponsoring organization	Cost of work	Date of commencement as per contract	Stipulated date of completion	Up to date percent-age progress of work	Slow progress if any, and reasons thereof	Name And Address/ Telephone Number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Certified that the above list of works is complete and no work has been left out and that the information given is correct to my knowledge and belief

Signature of Applicant(s)
Bidder (S)

Signature of Tenderer

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Addl. General Manager (Civil)

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C" & "D"

(Separate to be filled for each component by the composite tenderer and the main tenderer)

1. Name of work/
Project & Location
2. Agreement No
3. Estimated Cost
4. Tendered Cost
5. Date of Start
6. Date of Completion
 - i) Stipulated date of completion
 - ii) Actual date of completion
7. Amount of compensation levied for delayed completion, if any
8. Amount of reduced rate items, if any
9. Performance Report
 - 1) Quality of work Very Good/Good/Fair/Poor
 - 2) Financial Soundness Very Good/Good/Fair/Poor
 - 3) Technical Proficiency Very Good/Good/Fair/Poor
 - 4) Resourcefulness Very Good/Good/Fair/Poor
 - 5) General behavior Very Good/Good/Fair/Poor

Dated :

Executive Engineer or Equivalent

Signature of Tenderer

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Addl. General Manager (Civil)

STRUCTURE & ORGANISATION**(Separate proforma to be filled for each component by the main tenderer)**

1. Name & Address of the applicant
2. Telephone No./Telex NO./Fax No.

3. Legal status of the applicant

(Attach copies of original document defining the legal status)

- a) An individual
- b) A proprietary firm
- c) A firm in partnership
- d) A limited company or Corporation

4. Particulars of registration with various Government bodies (attach attested) Photocopy)

Organization / Place of registration

Registration No.

- 1.
- 2.
- 3.

5. Name and Titles of Directors & Officers with designation to be concerned with this work
6. Designation of individuals authorized to act for the organization.
7. Was the applicant ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so give name of the project and reasons for abandonment.
9. Has the applicant or any constituent partner in case of partnership firm, ever been debarred / black listed for tendering in any organization at any time? If so, give details.
10. Has the applicant, or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.
11. In which field of Civil Engineering construction the applicant has specialization and interest?
12. Any other information considered necessary but not included above.

Signature of Applicant(s)

Signature of Tenderer

Page No. 21

Addl. General Manager (Civil)

FORM 'G'

To be filled by the composite tenderer and main tenderer

DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK

S.NO.	Designation	Total number	Number available for this work	Name	Qualification	Professional experience and details of work carried out	How these would be involved in this work	Remarks
1	2	3	4	5	6	7	8	9

Signature of Applicant(s)
Bidder (S)

Signature of Tenderer

Page No. 22

Addl. General Manager(Civil)

FORM 'H'

To be filled up by composite tenderer and main tenderer

DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK.

Sr.No:	Name of equipment	Nos.	Capacity or type	Age	Condition	Ownership status			Current location	Remarks
						Presently owned	Leased	To be purchased		
1	2	3	4	5	6	7	8	9	10	11
<p>Earth moving equipment</p> <p>1. Excavators (various size)</p> <p>Equipment for hoisting & fitting</p> <p>1. Tower crane 2. Builder's hoist</p> <p>Equipment for concrete work</p> <p>1. Concrete batching plant 2. Concrete pump 3. Concrete transit mixer 4. Concrete mixer (diesel) 5. Concrete mixer (electrical) 6. Needle vibrator(electrical) 7. Needle vibrator(petrol) 8. Table vibrator (elect./petrol)</p> <p>Equipment for building work</p> <p>1. Block making machine 2. Bar bending machine 3. Bar cutting machine 4. Wood thickness planer 5. Drilling machine 6. Circular saw machine 7. Welding generators 8. Welding transformers 9. Cube testing machines 10. M.S. pipes 11. Steel shuttering 12. Steel scaffolding 13. Grinding/polishing Machines</p>										
<p>Equipment for road work</p> <p>1. Road rollers 2. Bitumen paver finishers 3. Hot mix plant 4. Spreaders 5. Earth rammers 6. Vibratory road rollers 7.</p> <p>Equipment for transportation</p> <p>1. Tippers 2. Truck</p> <p>Pneumatic equipment</p> <p>1. Air compressors(diesel)</p> <p>Dewatering equipment</p> <p>1. Pump (diesel) Pump (electric)</p> <p>Power equipment</p> <p>1. Diesel generators</p> <p>Any other plant/equipment</p>										

Signature of Applicant(s)

Signature of Tenderer

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Addl. General Manager (Civil)

CORRIGNEDUM TO GENERAL CONDITIONS OF CONTRACT (CPWD FORM 7/8)

S. No.	For	Read As
1	Chief Engineer/ DG works/ Chief Engineer (Zone)	Addl. General Manager (Civil) HPL for & on behalf of Income Tax office and in the name of President of India
2	Superintending Engineer	Addl. GM (Civil)
3	Engineer –in –charge	Addl. GM (Civil)
4	Department	Hindustan Prefab Limited
5	Administrative Head	C.M.D., HPL
6.	Owner	Income Tax
7.	C.P.W.D.	H.P.L.

Signature of Tenderer

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Addl. General Manager (Civil)

SCHEDULE 'B' TO 'F'

SCHEDULE – B :

Schedule of materials to be issued to the contractor.

S.No.	Description of Item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
NOT APPLICABLE				

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charged per day	Place of Issue
1	2	3	4
NOT APPLICABLE			

SCHEDULE 'D'

Extra schedule for specific requirements/ document for the work, if any.

Not applicable.

SCHEDULE 'E'

Reference to General Conditions of contract.

Name of work : **Construction of Income Tax office and Guest House cum Transit Accommodation camp at Firozabad (UP)**

S.H. : Civil & Electrical works

NIT NO:- . HPL / AGM (E)/NIT/FZBD/2011-12/ 57 ,dated 17-02-2012

Estimated cost of work :	Rs. 464.23 Lacs
i) Earnest money :	Rs. 9.28 Lacs
ii) Performance Guarantee :	5% of tendered value.
iii) Security Deposit :	5% of tendered value.

SCHEDULE 'F'

General Rules & Directions : Officer Inviting Tender, Addl. General Manager (Civil), Jangpura, New Delhi- 110014

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3 See below:-

Definitions :

2(v) Engineer-in-Charge	Addl. General Manager(Civil) HPL
2(viii) Accepting Authority	Chairman of Tender Approval Committee.
2(x) Percentage on cost of material and labour to cover all overheads and profits	15%
2(xi) Standard Schedule of Rates	DSR 2007
2(xii) Department	Hindustan Prefab Limited
9(ii) Standard CPWD contract Form	Latest Edition 2010 with up to date corrections and amendments.

Clause 1 i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	: 15 days
ii) Maximum allowable extension beyond period provided in i) above in days	: 07 days
Clause 2 Authority for fixing compensation Under clause 2.	: C.M.D, HPL
Clause 2A Whether Clause 2A shall be applicable	: Yes

Clause 5 Number of days from the date of issue of letter of acceptance or from the first date of handing over of site (whichever is later) for reckoning date of start	: 15 days
Clause 6,6A Clause applicable – (6 or 6A)	6 A

Mile Stone(s) as per table given below:

Sl. No	Financial Progress	Time Allowed (from date of start)	Amount to be with- held in case of non- achievement of milestone
1	1/8 th (of whole work)	1/4 th (of whole work)	In the event of not achieving the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each milestone.
2	3/8 th (of whole work)	1/2 (of whole work)	
3	3/4 th (of whole work)	3/4 th (of whole work)	
4	Full	Full	

Time allowed for execution of work	9 Months
Authority to give fair and reasonable Extension of time for completion of work	C.M.D., HPL
Clause 7 Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	30.00 Lacs except in last two bills for which amount can be reduced
Clause 10A List of testing equipment to be provided by the contractor At site lab but not limited to the followings. 1. The odolite, Dumpy level , Steel level. 2. Plumb bobs, Sprit level, Hammers. 3. Weighing machine (Electronic) 4. Thermometers, stoves. 5. Hydraulic test machine. 6. Smoke test machine. 7. Wire gauge, micro meter & tounge tester	
Clause 10B (ii) Whether Clauses 10 B (ii) shall be applicable	Yes

Modified Provision		
Clause 10CA Materials covered under this clause: N.A	Nearest materials for which all India price index to be followed: N.A	Base price of all the materials covered under clause 10CA: N.A
Base price of all the materials covered under clause 10CA is to be mentioned at the time of approval of NIT		

CLAUSE 10 CC

Clause 10CC Clause 10CC to be applicable in contracts with Stipulated period of completion exceeding the Period shown in next column.	No price escalation is allowed for this contract
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Schedule of component of other materials, labours, POL etc. for price escalation.

Component of Cement- Expressed as percent of total value of work.	Deleted
Component of Steel Expressed as percent of total value to work.	Deleted
Component of civil (except materials cover under clause 10 CA / Electrical const. materials expressed as percent f total value of work	N.A
Component of Labour- Expressed as percent of total of work	N.A
Component of POL- Expressed as percent of total value of work.	NIL

Clause 11 Specifications to be followed for execution of work(all works)	CPWD specifications with all latest amendments and corrections up to date
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<p>Clause 12 12.2 & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3. shall apply for building work :</p>	<p>30 %</p>
<p>12.5 Deviation Limit beyond which clauses 12.2 & 12.3. shall apply for foundation work</p>	<p>100%</p>
<p>Clause 16 Competent Authority for Deciding reduced rates.</p>	<p>C.M.D., HPL</p>
<p>Clause 18 List of mandatory machinery, tools & plant to be deployed by the contractor at site lab but not limited to the followings</p> <ol style="list-style-type: none"> 1. Excavators (various size) 2. Concrete batching plant, concrete pump 3. Concrete transit mixer 4. Needle vibrator (Petrol) Table Vibrator elect./petrol) 5. Bar bending machine bar cutting machine. 6. Drilling machine, Grinding/polishing Machines. 7. Steel shuttering & steel scaffolding. 	

Clause 36 (i)

SI. No.	Minimum qualification of technical Representative	Discipline	Designation (principal Technical/technical	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.	Project Manager	Civil	Principal Technical Representative	10 year	01	20,000/- Per month	Twenty thousands Per month
2.	Graduate Engineer	Civil	Technical Representative	05 year	01	15,000/- Per month	Fifteen thousands Per month
	Graduate Engineer Or Diploma Electrical Engineer	One Civil & one Electrical -Do-	-Do- -Do-	NIL 05 year	02 02	10,000/- Per month For each -Do-	Ten thousands Per month For each -Do-

Assistant Engineer's retired from Government service that are holding Diploma will be treated at par with Graduate Engineers.

Clause 42							
i) (a) Schedule /statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates				2007		printed	by
				CPWD			
ii) Variations permissible on theoretical quantities.							
(a) Cement						2% Plus/ Minus	
(b) Bitumen						2.5% Plus only and Nil on minus side	
(c) Steel reinforcement and structural steel section for each diameter, section and category						2% Plus/ Minus	
(d) All other Materials						Nil	

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of Item	Rates in figures and works at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement	Nil	Rs. 400 per bag of 50 Kg

SPECIAL CONDITIONS OF CONTRACT

These special conditions shall super cede/ supplement the relevant conditions given in CPWD Form 7/8(Edition 2010 with up to date corrections and amendments) in the tender document.

1. EMD of tenderers, who do not qualify in technical bid after evaluation of technical bid, shall be returned with in 7 days of receipt of request of refund from them. The tenderers can collect the un-opened financial bid, if they desire, from the office of the concerned Engineer-in-charge.

EMD given by all the tenderers except lowest tenderer shall be refunded within 07 days after receipt of request from them after opening of financial bid.

2. Contractor shall submit the complete programme of construction along with CPM/PERT Chart proposed to be followed for construction within 7 days of award of work.
3. RAW MATERIAL : All materials and labor required for the execution of work shall be arranged by the contractor including cement & reinforcement steel.
4.
 - (i) The contractor shall procure 43 grade (conforming to IS:8112) ordinary Portland cement, as required in the work, from reputed manufacturers of cement, having a production capacity of one million tones or more per annum 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 licence 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.
 - ii) The cement shall be brought at site in bulk supply approximately 50 tones or as decided by the Engineer- in-charge.
 - iii) The cement go-down of the capacity to store a minimum of 4000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement go-down. 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 go-down. The contractor shall facilitate the inspection of the cement go-down by the Engineer-in-charge at any time.
 - iv) The cement shall be got tested by Engineer-in-charge and shall be used on work, only after test results have been received. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor.
 - v) The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 and 10A of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.

- vi) The 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.
 - vii) Damaged cement shall be removed from site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within three days of the receipt of such notice, the Engineer-in-charge shall get it removed at the risk & cost of the contractor.
5. i) The contractor shall procure TMT steel reinforcement bars conforming to relevant BIS codes from main producers as approved by the Ministry of Steel. 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 time from written orders from the Engineer-in-charge to do so.
- ii) The steel reinforcement shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-charge.
 - iii) 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.
 - iv) 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 tonnes	For consignment above 100 tonnes.
Under 10mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

- v) The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor.
- vi) The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 and 10 A of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.
- vii) Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

6. (a) All material used in the work shall be confirming to IS Specification and as per approved make/bands list and shall be ISI marked unless otherwise specified. In the event for items for which either brands not specified and ISI marked items not available, the sample of the item before use shall be got approved from Engineer – in-charge. However in either cases the samples of materials / fixtures shall be got approved from by Engineer –in-charge before use in the work.
- (b) Contractor shall be required to produce samples of all materials and fittings sufficiently in advance for approval. The Contractor when called upon shall provide "make" of samples as per approved list for approval before execution free of cost and also will make arrangements for transportation of samples to the designated test house as per the direction of Engineer-in-charge of the work at his own cost. Cost of testing will also be borne by the contractor.
7. Any notice to be given under this contract shall be sent by registered post, Speed post at the last known registered or head office Address of the contractor and shall be deemed to have been effected at the time at which the letter would be delivered in the ordinary course of post.
8. The contractor shall have to provide 10 (Ten) years guarantee bond in the form of Indemnity Bond for water proofing works from the date of completion of work.
9. The contractor shall be supplied drawings required for execution of work like architectural, structural all service plans and other detailed drawings in a phased manner. If any particular drawing is required for execution of work, contractor shall inform the Engineer-in-Charge in writing at least 15 days in advance.
10. The contractor shall be responsible for obtaining necessary clearances for the works executed by him from local bodies' for NOC for occupation of the building. Necessary liasoning with other working agency & local bodies shall be his responsibility. Any statutory fees to be paid on account of said clearances shall be paid by HPL.
11. The payment to the contractor shall be made from the registered office of HPL at Jangpura, New Delhi and cheques will be issued and payable at Delhi / New Delhi. The contractor shall not claim anything extra on this account.
12. The Contractor should be registered under VAT ACT for works in the State of Uttar Pradesh and submit a copy of registration along with tender. The said VAT shall be deducted as per laws at source as applicable. The contractor shall submit the bills as required under VAT.
13. The contractor should have valid PF Code No and should provide a copy of PF Registration. The contractor shall provide the copies of challans as a proof of remittance of PF amount. The contractor may also be asked to provide the PF records, copies of wage sheets, attendance sheets, monthly returns, annual returns and any other record in this regard for inspection, as and when required by the Engineer-in-charge.

14. Defect Liability Period : The contractor shall be fully responsible for the quality, workmanship and structural safety of the construction. The contractor shall be fully responsible for liability of defects in the work executed by him for a period of one year from the date of successful handing over of the work to Income Tax on rectifying the list of defects/ deficiencies observed by HPL/Income Tax before taking over. The defect liability period shall start from the date the project is handed over to Income Tax . All defects observed during the defect liability period shall be rectified by the contractor at his own cost and expenses. In the event of failure on the part of the contractor to rectify the defects, the same may, without prejudice to any other right available to it in law, be rectified by HPL for and on behalf of contractor. HPL shall have the right to deduct or set off the expenses incurred by it in rectifying the defects as aforesaid from/against any amount due and payable or becoming due and payable by HPL to the contractor under this agreement or any other contract what-so-ever. During the Defect- liability period contractor has to employ an engineer to look after the defects for which nothing extra would be payable to the contractor.
15. The contractor will be responsible for obtaining "Contractor All Risk Policy" (i/c Third Party) towards entire cost of the work and will obtain "Workmen compensation policy" at his own cost. The policy should cover entire tenure of contract inclusive of extended period & Defect liability period/ maintenance period, if any. The policy shall be got issued from the approved insurance company.
16. The decision of the Chairman & Managing Director, HPL, regarding the quantum of reduction as well as justification thereof in respect of rates for substandard work will be final and would not be open to arbitration and adjudication.
17. The contractor has to control noise and air pollution at site as per norms of Income Tax office Pollution Control Board.
18. **FURNISHED OFFICE ACCOMODATION & NOBILITY AND COMMUNICATION BE PROVIDED BY CONTRACTOR TO HPL.**
- 18.1 The contractor has to provide the following facilities to HPL and the cost of these facilities shall be deemed to be included in the rates quoted by him. All these facilities including consumables are to be kept in tact / operational during the tenancy of the contract (i.e. till completion of work, handing over and defect liability period)in all respect at his own cost, after which these facilities shall be property of the contractor.

On acceptance of tender, the contractor at his own cost will construct a suitable furnished office at site of minimum 800 sq. ft. area with attached toilet and equipped with basic facilities such as telephone(s), fax, internet, photocopier, one computer – desktop, one laptop and printer(s) along with operator(s), regular electric & filtered drinking water facility along with an office attendant and staff carrying vehicles for the supervisory staff etc. as per the requirement of the project. The furnishing should also comprise of steel almirahs, steel / wooden tables, chairs, ceiling fans, desert coolers, one fridge of 165 liter, side tables, one air conditioner of 1.5 tone capacity. The contractor shall provide consumable as required and maintain the aforesaid facilities intact / operational during the tenancy of the contract upto handing over and defect liability period /maintenance period of the project. In Addition to this the contractor shall make a laboratory of at least 150 sq. ft. area at site.

- 18.2 The contractor shall provide one nos. of staff carriage vehicle (SCV) as – one SCV like Indigo car model 2012 with AC for the exclusive use of HPL’s supervising staff / officials at the project with driver and POL, the average distance of each vehicle is restricted to 3000 km in a month. The maintenance charges is to be borne by the contractor. The above facilities will be provided by the contractor upto handing over and defect liability period /maintenance period of the project.
- 18.3 The contractor shall also make sufficient arrangement for photography / videography so that photographs video can be taken of any specific activity at any point of time. the contractor shall also provide software like MS Project etc. for the purpose of preparing progress report etc.
19. The contractor shall make all arrangements for ground breaking Ceremony / inaugural function etc. for the projects as required and the cost towards it is deemed to be included in his rates/offer. Any expenditure already incurred /to be incurred by HPL shall be recovered from the Contractor.
20. HPL shall not supply or procure any material for use on works and the contractor has to make his own arrangements for supplying, procuring transportation and storage of all such materials required for the work, at his own cost.
21. No advance shall be paid to the contractor against any Tools & Plants, equipment & machinery etc. brought at site by the contractor.
22. No extra payment shall be made to the contractor for laying of concrete by ready mixed concrete (R.M.C) plant.
23. The contractor will be responsible to get registered himself under labour cess in Ferozabad Building & Construction works Welfare Board.
24. The contractor shall build and complete a mock up room, within the limits of area of the building under construction before progressing for further finishing/ works.
25. The work may be inspected by Central Vigilance Commission and any deductions/compensation proposed by CVC or HPL or Income Tax in regard to defective work or work not confirming to specification, loss of time, amount shall be deducted from his dues.
26. Settlement of Disputes and Arbitration :

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings, and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter.

- i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable, he shall promptly within 15 days request the Addl. GM (Civil), HPL in writing for written instructions or decisions. Thereupon, the Addl. GM (Civil), HPL shall give his written instructions or decisions within a period of one month from the receipt of the contractor's letter.

If the Addl. GM (Civil), HPL fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instructions or decision or the Addl. GM (Civil), HPL, the contractor may, within 15 days of the receipt of Addl. GM(Civil),HPL's decision, appeal to the CMD, HPL who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The CMD, HPL shall give his decision within 30 days of receipt of contractor's appeal. If the contractor is dissatisfied with this decision, the contractor shall within a period of 30 days from receipt of the decision, give notice to the CMD, HPL for appointment of arbitrator failing which the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.

- ii) Except where the decision has become final, binding and conclusive in terms of Sub Para(i) above disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the CMD,HPL on behalf of Income Tax Deptt. and with the consent of Income Tax Deptt. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the rejection by the CMD, HPL of the appeal.

It is also a term of this contract that no person other than a person appointed by such CMD, HPL on behalf of Income tax office & with the consent of Income Tax office, as aforesaid should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing a aforesaid within 120 days of receiving the intimation from the Engineer-in-charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Government shall be discharged and release of all liabilities under the contract in respect of these claims.

The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act. 1996 (26 of 1966) or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claim by any party exceeds Rs. 1,00,000/- the arbitrator shall give reasons for the award.

It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid equally by both the parties. i.e. contractor & Income Tax Officer.

It is also a term of the contract the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

27. The building is a "Green Building " , therefore, the contractor has to follow the mythology specifications and maintain all records to obtain Star Rating certificate as per GRIHA norms. The contractor shall be responsible for obtaining Star rating certificate of Green Building form the concerned authority as per GRIHA norms.
28. The payment of running bills/ and or secured advance for work done etc. shall be released on receipt of required funds from client.
29. The refund of security deposit shall be considered for release on receipt of "No Defect / No Dues" certificate from the client.
30. The payment of final dues shall be release on settlement of final bill of HPL by client and on compliance of contractual obligations.
31. The contractor shall arrange to get material tested from the laboratories as directed by Engineer -in -Charge as per the mandatory test required/ prescribed as per CPWD specifications and norms. The testing charges shall be borne by contractor including the transportation/ conveyance.

LIST OF MATERIALS OF APPROVED MAKES/BRANDS

CIVIL WORK

S.NO.	MATERIALS	BRAND NAMES
1.	Flush doors	Kit ply, Anchor, National, Bhutan Board, Archidply
2.	Marine Plywood/ BWP plywood for panelled shutters	a) Kit ply b) Anchor c) National d) Bhutan Board
3.	Particle board for panelled shutters	a) Indian Plywood Manufacturing Co. b) Duroboard c) Bhutan Board
4.	Adhesive	a) FEVICOL b) VEMICOL
5.	Screws	a) GKW b) Nettle fold
6.	Glass	a) ATUL b) MODIFLOAT c) Saint Gobain
7.	Paints & Distemper	a) Asian b) Berger c) Nerolac
8.	Water proofing Cement Paint	a) Snowcem Plus
9.	Water proofing Compound	a) Pidilite b) Cico c) ACC d) Roffe

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|-----|---|--|
| 10. | White Glazed Tiles | a) Somany Pilkington (first quality)
b) Johnson (first quality)
c) Kajaria (first quality) |
| 11. | Vitreous China Sanitary ware | a) Hindware
b) Parryware
c) Seabird (Coral) |
| 12. | W.C. seat and cover
(IS-2548) | a) Commander I.S. (solid heavy duty)
b) Admiral (solid heavy duty) |
| 13. | PVC Flushing Cistern | a) Duralite
b) Commander
c) Hindware |
| 14. | Stainless Steel Sinks | a) Neelkanth
b) Cobra
c) Jaina |
| 15. | C.P. brass fittings,
fixtures & C.P. Waste | a) Parko
b) Kingston
c) Jaquar |
| 16. | Mirror | a) Modi Float Glass
b) ATUL
c) Saint Gobain |
| 17. | Cast iron items (C.I.)
Cast iron soil pipes
& fittings (IS:1729-1979) | a) A-1
b) RIF
c) SKF
d) VIP
e) NECO |
| 18. | (i)C.I. Spun Pipes (water supply) | a) ELECTROSTEEL/SKF
b) Indian Iron and Steel Co. |
| | (ii) Cast iron pressure
pipes & fittings | a) KAZECO/SKF |
| 19. | a) G.I. pipes | a) Jindal (Hissar)
b) Prakash Surya
c) TATA |
| | b) P.V.C./PPR pipes and fittings | a) Supreme
b) Prakash
c) Prince
d) Tirupati Structures Ltd. |

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| 20. | G.I. fittings | a) R- Make
b) Unik |
| 21. | Aluminium Accessories | a) Classic
b) Argent
c) Everite
d) Crown |
| 22. | Gunmetal valves/ Ferrules | a) Leader
b) Sant |
| 23. | Brass stop cock Bib cocks | a) Leader/PARKO/GEM
b) L & K |
| 24. | Ball valve with float | a) Leader/Sant
b) L & K |
| 25. | Stoneware pipes & Gully Traps | a) Perfect or as approved by the HPL |
| 26. | C.I. covers & Manhole covers | a) RIF
b) BC (Agra)
c) NECO |
| 27. | SFRC covers for manhole | a) As per Approved Manufacturer |
| 28. | R.C.C. pipes | a) As per Approved Manufacturer |
| 29. | S/S C.I. pipe & fittings | a) IISCO/SKF
b) Kesoram
c) SIF |
| 30. | C.I. Sluice valve & Non Return Valve | a) Kirloskar
b) I.V.C.
c) Leader |
| 31. | Factory made door/window Shutters | as/Approved Factory by HPL |
| 32. | Factory made door/window Pressed steel frames/Shutters | as/Approved Factory by HPL |
| 33. | Pre-laminated particle board | Eco, Nova, Bhutan Board. |

LIST OF APPROVED MAKES

Fire Alarm

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|-----|--------------------------------------|---|
| 1. | Fire Check door/ frame (MS / wooden) | Navair / Sukri/Pacific/Adhunik |
| 2. | Fire Control/Alarm Panel | Safeway/Edward/Agni (ADPL)
Notifire/cooper/Tata Honey Well/System Sensor |
| 3. | Manual Call Box, Hooters | Safeway/Edward/Agni (ADPL)
Notifire/cooper/Tata Honey Well/System Sensor |
| 4. | PA System Component /Speaker | Ahuja/Philips/Agni/Tata honey well |
| 5. | PVC insulated copper cables | Skyline / Batra Henlay/ Plaza |
| 6. | PVC insulated copper wire | Skyline /finolex / Plaza |
| 7. | Battery | Amron Powersafe/ Exide |
| 8. | Detectors/RI/MCP/control Module | Safeway/Edward/Agni (ADPL)
Notifire/cooper/Tata Honey Well/System Sensor |
| 9. | Duct Casting Unit | System Sensor/Appolo/ ADPL |
| 10. | Monitor Module/Any other Accessories | Safeway/Edward/Agni (ADPL)
Notifire/cooper/Tata Honey Well/System Sensor |

All Electrical works under component 1 & 2

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|----|--|--|
| 1. | PVC insulated copper
Conductor wires 1100 V
grade and flexible wire | Delton/ Sky tone/ Finolex/ Batra Henlay |
| 2. | Telephone wire & TV cables | Delton/ Sky tone/ Batra Henlay |
| 3. | HRC switches & fuses | Siemens/ Alsthom/L & T/Crompton Greaves |
| 4. | MCB DB's /MCB/ELCB/RCCB | Legrand/Siemens/ABB/ L&T/Havells/Schenider |
| 5. | Switches, sockets, bell
push holders, ceiling
rose, etc.(Modular Type) | Anchor Roma/ North West/CPL/MK |
| 6. | Steel conduit | BEC/AKG/NIC |

7.	MCCB/ACB	Legrand/Siemens/ABB/ L&T
8.	Bakelite Sheet	a) Hylam/Formica
9.	Geyser	BAJAJ/CROMPTON GREAVES
10.	Light fitting	PHILIPS/WIPRO/Bajaj/GOLD wyn
11.	Ceiling Fans	CROMPTON Greaves/USHA
12.	Exhaust Fans	GEC/CROMPTON Greaves/Usha
13.	Indicating Meters, metering equipment & C.T.'s	Automatic electric/Nippon/Kappa.
14.	Cables Armoured/Unarmoured	Delton/ Sky tone/ Finolex/ Batra Henlay/Havells
15.	Motor starters	L & T/ GE Power Control/Siemens
16.	MV panels	Edward /ASE / ALERT / Adlec /SPC/GEMINI
17.	Time Switches	(A) MDS, (B) L & T (C) STANDARD
18.	Aviation Light	Bajaj/GE Lighting / PHILIPS/GOLD wyn
19.	Motors	Crompton/Kirloskar/ABB

Note: (1) The Contractor shall supply ISI marked material as per the makes or brands indicated above. In case the firm is not manufacturing ISI marked material for any of the brands, first quality material shall be accepted. The samples including make and brand of the material shall in either case have to be got approved from the Engineer in Charge.

(2) Material where no make/brand has been mentioned, ISI marked samples shall be submitted by the Contractor for approval of Engineer in Charge. For those class of materials, where no firm exists with ISI approval, sample of first quality material of the firm shall be submitted for the approval of the Engineer in Charge

(3) Any variation from the above mentioned makes/brands will require specific approval of the Engineer in Charge.

(4) It will be contractors responsibility to ensure the quality of products listed in approved list of brands. Contractor will have to replace the defective and substandard materials at his own cost.

Performa for Security Performance Bank Guarantee.

In consideration of the President of India (hereinafter called "The Government ") having offered to accept the terms and conditions of the proposed agreement between _____ and _____ (hereinafter called "the said Contractor (S)") fro the work _____(hereinafter called "the said agreement ") having agreed to production of a irrevocable Bank Guarantees for Rs. _____(Rupees _____only) as a security/ guarantee from the contractor (s) for compliance of his obligations in accordance with the terms & conditions in the said agreement.

2. We _____(hereinafter referred to as " the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. _____(Rupees _____ only) on demand by the Government.
3. We _____do hereby undertake to pay the amounts due and payable this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor (s) . Any such demand made on the bank shall be conclusive as regards the amount due and payable by the under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupess. _____only)
4. We, the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
5. We , _____further agree that the guarantee herein contained shall remain in flu force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in -Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by said Contractor (s) and accordingly discharged this guarantee.
6. We, _____ further agree that the guarantee shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions to the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor (s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor (s) or for any forbearance, act of commission on the party of the Government or any indulgence by the Government to the said Contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision. Have effect of so reliving us.
7. This guarantees will not be discharged due to the changed in the constitution of the Bank or the contractor (s)
8. We , _____lastly undertake not to revoke this guarantees except with the previous consent of the Government in writing.
9. This guarantee shall be valid upto _____unless extended on demand by the Government .Notwithstanding anything mentioned above, our liability against the guarantee is restricted to Rs. _____(Rupess _____only) and unless a claim in writing is lodged with us within six months of the date or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged

Dated the _____day of _____ for

NAME OF WORK: - CONSTRUCTION OF INCOME TAX OFFICE AND GUEST HOUSE CUM TRANSIT ACCOMMODATION CAMP AT FIROZABAD,UP.

NIT No. : HPL/AGM(C)/NIT/FZBD/2011-12/ 57 DT :17-02-2012

ESTIMATED COST:- RS. 464.23 Lacs

FINANCIAL BID

ISSUED TO : _____

**HINDUSTAN PREFAB LIMITED
(A GOVT. OF INDIA ENTERPRISE)
JANGPURA, NEW DELHI-110014**

Phone No. : 43149800-99

Fax : 011-43149865,26340365

Web site : www.hindprefab.org

HINDUSTAN PREFAB LIMITED

JANGPURA, NEW DELHI

NAME OF WORK : CONSTRUCTION OF OFFICE BUILDING AND
GUESTHOUSE CUM TRANSIT ACCOMMODATION
FOR INCOME TAX DEPARTMENT AT FIROZABAD
SCHEDULE OF QUANTITIES

I. CIVIL WORKS

S.No	DSR-2007 Ref	Description	Unit	Total Qty	Rate (in Rs.)	Amount (in Rs.)
1.0	1.00	CARRIAGE OF MATERIAL				
1.1	1.1	Carriage of material by mechanical transport including loading, unloading and stacking within 1 KM lead.				
a	1.1.1	Lime moorum, building rubbish	cum	15.00		
b	1.1.2	Earth	cum	80.00		
2.0	2.00	EARTH WORK				
2.1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sq m in plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
a	2.8.1	All kinds of soil	cum	775.00		
2.2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, side of foundation etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering lead up to 50m and lift upto 1.5 m	cum	245.00		
2.3	2.27	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	cum	160.00		

Signature of Tenderer

Page No. 1

Addl. General Manager (Civil)

S.No	DSR-2007 Ref	Description	Unit	Total Qty	Rate (in Rs.)	Amount (in (Rs.))
2.4	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
a	2.28.1	All kinds of soil.	sqm	100.00		
2.5		Providing & injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment under footings, trenches junction of wall & floor (Plinth area of the building at G.F. only shall be measured for payment).				
a		a) Chemical - Chlorpyriphos Emulsifiable concentrate 20% with 1% concentration.	sqm	100.00		
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
3.0	4.00	CONCRETE WORK				
3.1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering -all work up to plinth level :				
a	4.1.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)		156.50		
b	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	110.00		
3.2	4.11	Providing and laying damp- proof course 50mm thick with cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size).	sqm	73.10		
3.3	4.13	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	sqm	73.10		
4.0	5.00	REINFORCED CEMENT CONCRETE WORK				

S.No	DSR-2007 Ref	Description	Unit	Total Qty	Rate (in Rs.)	Amount (in Rs.)
4.1	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
a	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	20.4		
4.2	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :				
a	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	32.85		
4.3	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	185		
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
4.4	5.9	Centering and shuttering including strutting, propping etc. and removal of formwork for :				
a	5.9.1	Foundations, footings, bases of columns etc. for mass concrete	sqm	980.00		
b	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	3,500.00		

S.No	DSR-2007 Ref	Description	Unit	Total Qty	Rate (in Rs.)	Amount (in (Rs.))
c	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	1,800.00		
d	5.9.7	Stairs, (excluding landings) except spiral-staircases.	sqm	10.00		
e	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	sqm	80.00		
f	5.9.16	Edges of slabs and breaks in floors and walls.				
g	5.9.16.1	Under 20 cms wide	metre	250.00		
h	5.9.17	Cornices and mouldings	sqm	200.00		
4.5	5.11.	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and de-cantering at all ;levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
a	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	sqm	60.00		
4.6	5.18.	Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand :4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including cantering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement :3 fine sand) etc. complete in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.				

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in (Rs.))
a		5.18.1 50 mm thick	sqm	30.00		
4.7	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete for all levels.				
a	5.22.6	Thermo- mechanically treated bars.	kg	54,937		
4.8	5.30.	Add or deduct for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	m	223.00		
4.9	5.33	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete byusing 380 kg. of cement per cum of concrete. All work up to floorV level.				
a		All works up to plinth level.	cum	84.00		
b		All works up to floor V level.	cum	410.00		
4.10	5.34.	Add or deduct for providing richer or leaner mixes respectively at all floor levels.				
a	5.34.1	Providing M-30 grade concrete by using 400kg of cement per cum of concrete instead of m-25 grade B.M.C/R.M.C..	cum	34.00		
5.0	6.00	BRICK WORK				
	(a)	Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
5.1	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
a	6.1.2	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth:				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	36.00		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in (Rs.))
5.2	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
a	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	180		
5.3	6.13	Half brick masonry with F.P.S. brick of class designation 75 in superstructure above plinth level up to floor V level.				
a	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	794.00		
5.4	6.34	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 100 average compressive strength in super structure above plinth level up to floor V level in all shapes and sizes in :				
a	6.34.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	414.00		
5.5	6.34	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 100 average compressive strength in foundation, upto plinth level in :				
a	6.34.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	120.50		
5.6	6.44	Brick edging 7 cm wide 11.4 cm deep to plinth protection with FPS bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 find sand).	Metre	178.00		
6.0	7.00	STONE WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in (Rs.))
6.1	7.23	Stone work (machine cut edges) for wall lining etc. (vener work) backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) within admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid for separately) :				
a	7.23.2.5	Red sand stone exposed face machine Cut and table rubbed with rough backing, 30mm th.	sqm	240.00		
b	7.23.4.5	White sand stone exposed face machine Cut and table rubbed with rough backing, 30mm th.	sqm	280.00		
6.2	7.25	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.	KG	140.00		
6.3	7.38.	Stone tile work for wall lining up to 10 m hight with special adhesive over 12mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8mm thick (mirror polished and machine cut edge)				
a	7.38.1.1	Granite stone of any colour and shade.	sqm	300.00		

Signature of Tenderer

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Addl. General Manager (Civil)

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in (Rs.))
7.0	8.00	MARBLE WORK				
7.1	8.2	Providing and fixing 18mm thick gang saw cut mirror polished pre-moulded and pre-polished) machine cut for kitchen platforms, vanity counters, window sills, facias, Including wall cladding and similar location of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement :4 coarse sand) with joint treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels. Area of slab over 0.50 sqm				
a	8.2.2.2	Granite of any colour and shade	sqm	27.00		
7.2	8.3	Extra for providing edge moulding to 18mm thick marble/Granite/Kota stone counters, treads of steps/ Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in Charge. Granite Stone				
a	8.3.2	Granite work.	Metre	150.00		
7.3	8.4.	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width up to 150 mm with epoxy resin based adhesive including cleaning etc. complete.	metre	125.00		
7.4	8.5	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanty counters and similar location in marble/ granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	Each	25.00		
7.5	8.6	Mirror polishing on marble work/stone work/Mosaic floor where ever required to give high gloss finish complete.	sqm	100.00		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
8.0	9.00	WOOD WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
8.1	9.1	providing wood work in frames of doors,windows.clerestory windows and other frames,wrought framed and fixed in position				
a	9.1.1	Second class teak wood	cum	2.00		
b	9.1.3	Kiln seasoned and chemically treated hollock wood	cum	3.20		
8.2	9.20.	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well mat matched teak 3 ply veneering with vertical grains of cross and face veneers on both face of shutters.				
a	9.20.1	35 mm thick including ISI marked stainless steel butt hinges with necessary screws.	sqm	157.00		
8.3	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non decorative type, core of block board construction with frame of 1st class hard wood and well mat matched commercial 3 ply veneering with vertical grains of cross and face veneers on both face of shutters.				
a	9.21.2	30 mm thick including ISI marked stainless steel butt hinges with necessary screws.	sqm	38.00		
8.4	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters(over all area of door shutter to be measured) Over item no 9.20 and 9.21				
8.5		Providing and fixing 0.8mm thik sheet of laminate ISI marked, of approved make and shade on both side of shutter using low VOC Adhesive	sqm	38.00		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in (Rs.))
8.6	9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
	9.40.1	2nd class teak wood				
a	9.40.1.2	50 x 20 mm	metre	129		
8.7	9.46	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. Brass screws and wooden plugs, etc., wherever necessary complete :				
a	9.46.2	20 mm dia.	metre	338		
8.8	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.				
a	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	2500		
8.9	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	each	125.00		
8.10	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
a	9.74.1	250x10 mm	each	80		
	b	9.74.2	200x10 mm	each	65	
8.11	9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	each	10		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
8.12	9.84	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	each	10		
8.13	9.96.	Providing and fixing aluminium Sliding blots ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent of day to required colour or shade with nuts and screws etc, complete :				
a	9.96.1	300*16 mm	each	34.00		
8.14	9.97.	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transport or dyed to require colour or shade with nuts and screw etc. complete:				
a	9.97.2	250 x10 mm	each	86.00		
b	9.97.4	150 x 10 mm	each	92.00		
8.15	9.98.	Providing and fixing aluminium pull bolt anodised ISI marked (anodised costing not less than grade AC 10 as per IS : 1868 transparent or dyed to required colour and shade with necessary screw bolts, nut and washers etc complete.	each	45.00		
8.16	9.100	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
a	9.100.1	125 mm	each	85		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
8.17	9.120.2	30mm thick factory made solid both side Pre-laminated panelPVC door shutter consisting of frame made out of M.S. tubesof 19 gauge thickness and size of 19mm x 19mm for stylesand 15x15mm for top & bottom rails. M.S. frame shall have acoat of steel primers of approved make and manufacture .M.S. frame covered with 5mm thick heat moulded Pre-width out of which 50mm shall be flat and 20mm shall betapered in 45degree angle on either side forming styles; and5mm thick, 95mm wide PVC sheet out of which 75mm shallbe flat and 20mm shall be tapered in 45 degree on the innerside to form top and bottom rail and 115mm wide PVC sheetout of which 75mm shall be flat and 20mm shall be taperedon both sides to form lock rail. Top, bottom and lock railsshall be provided either side of the panel. 10mm (5mm x 2)thick, 20mm wide cross PVC sheet be provided as gap insertfor top rail & bottom rail. paneling of 5mm thick both sidePre-laminated PVC sheet to be fitted in the M.S. framewelded/ sealed to the styles & rails with 7mm (5mm+2mm)thick x 15mm wide PVC sheet beading on inner side, andjoined together with solvent cement adhesive.	Sqm	24.00		
9.00	10.00	STEEL WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
9.1	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved low VOC steel primer.	sqm	15.4		

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
9.2	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guide and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs grade No. 2 and M.S. top cover of required thickness for rolling shutters.				
a	10.6.1	80*1.25mm M.S. laths with 1.25mm thick top cover.	sqm	22.00		
9.3	10.7	Providing and fixing ball bearing for rolling shutters.	each	12.00		
9.4	10.8	Extra for providing mechanical device chain and crank operation for operation rolling shutters.				
a	10.8.1	Exceeding 10.00 sqm and up to 16.80 sqm in the area.	sqm	14.00		
9.5	10.9.	Extra for providing grided rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge (area of grill to be measured).	sqm	9.00		
9.6	10.25.2	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
a		In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	kg.	870.00		
10.0	11.00	FLOORING WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				

S.No	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
10.1	11.3.	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating cost of neat cement including cement slurry, but excluding the cost of nosing of steps. Complete.				
a	11.3.1	40 mm thick with 20mm nominal size stone aggregate.	sqm	68.00		
10.2	11.20.	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand).				
a	11.20.1	Light shade using white cement .	sqm	40.00		
10.3	11.23.	Marble stone flooring with 16-18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:				
a	11.23.1	Makarana white second quality	sqm	300.00		
b	11.23.5	Udaipur green marble	sqm	150.00		
10.4	11.24.	Extra for pre finished nosing to treads of steps of marble stone.	metre	60.00		
10.5	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
a	11.26.1	25 mm thick.	sqm	1000		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
10.6	11.27	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	109		
10.7	11.38	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	sqm	66.00		
10.8	11.41	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
a	11.41.2	Size of Tile 60x60 cm	sqm	902.5		
10.9	11.44 A/R DSR 2002	Extra if white cement slurry is used instead of grey cement slurry (in joints of marble stone flooring or tiles)	sqm	400.00		
10.10	11.29	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with as admixture of pigment of match the shade of stone.				
a	11.29.2	White sand stone	sqm	200.00		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
10.11	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shade except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, rises of steps and dados over 12 mm thick bed of cement mortar 1:3 (1 cement ;3 coarse sand) and jointing the grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	235.00		
10.12	11.4	Providing and fixing Anti Skid ceramic floor tiles equivalent grade V of kajaria make) 400*400 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colour shades, except , White, ivory, Grey, Fume, red, Brown laid on 20 mm thick cement mortar 1:4 (1 cement : 4 Coarse sand) including grouting the jointing with white cement and matching pigment etc, complete.	sqm	80.00		
11.0	12.00	ROOFING				
		GYPSUM Board False Ceiling	SQ.M	378.00		
11.1		Providing and fixing in position Gypsum Board False Ceiling as per manufacturer's specifications and instructions with 12.5 mm thick 'Gypboard' Screw-fixed to the underside Of suspended G.I. grid. G.I. grid should be Constructed and suspended from the main ceiling as per manufacturer's instructions and as per specifications using Original Co. Specified Framework Sections G.I.24 gauge The Gypboard should be fixed to G.I. grid with 25 mm long Drawali Screws. The 'Gypboard ' to be used should be 12.5mm thick tapered edge boards. The boards should Be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels openings for light fixtures, A.C. ducts, vertical drops, offsets. etc. Additional Intermediate channels should be fixed to strap hangers for additional support to prevent strap hangers from buckling/swaying at every 1200 mm. Item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs supports for A.C. grills, light fixtures, speaker etc.Make: Gypsum board-India Gypsum. Panint-Asian/ ICI		-		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
a		GYPSUM VERTICALS (ht :- 6" to 1'-0")	rmt	80		
11.2		GRID CEILING	sqm	1052		
		<p>providing and fixing false ceiling tiles of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid to hot dipped galvanized steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.30mm thick (minimum) sheet spaced t 1200mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm logn spaced between "T" at 600 mm center to center to form a grid of 1200 x 600 mm and secondary cross "T" of length 600 mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200 x600 mm panel to form grids of 60 x 800mm and laying false ceiling tiles of approved lecture in the grid including , wherever , required, cutting/ making, opening for services like diffusers, grills, light fitting, fixtures , smoke detectors, etc. Main "T" runner to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanized level clips dash spaced at 120 mm center to center along main T, bottom exposed width of 24mm of all sections shall be pre-painted with paint, all complete at all heights as per specification drawings and as directed by Engineer-in -Charged (The rate is including cost to tiles which will be paid separately)</p>				
12.0	13.00	FINISHING				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
12.1	13.1	12 mm cement plaster of mix:				
a	13.1.2	1:6 (cement : 6 fine sand)	sqm	6,006.00		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
12.2	13.5	15 mm cement plaster on the rough side of single or half brick wall of mix:				
a	13.5.2	1:6 (1 cement : 6 fine sand)	sqm	2,550.00		
12.3	13.6	20 mm cement plaster of mix				
a	13.6.1	1:4 (1 cement : 4 coarse sand)	sqm	1,957.00		
12.4	13.16.	6 mm cement plaster of mix :				
a	13.16.1	1:3 (1 cement: 3 fine sand)	Sqm	2,680.00		
12.5	13.44	Finishing walls with waterproofing cement paint.				
a	13.44.1	New work (two or more coat applied @ 3.84kg/10- sqm LOW VOC	Sqm	2,500.00		
12.6	13.45.	Finishing walls with Textured of required shade (GRIHA APPROVED):				
a	13.45.1	New work (two or more coat applied @ 3.28 ltr/10- sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm). LOW VOC	sqm	1,700.00		
		P O P PUNNING				
12.7		Providing and applying plaster of paris punning in average 12 to 25 mm thickness on walls and columns to bring the surface in plumb line and level. Item to be completed in all respects including scrapping neeru etc. as per instructions.	sqm	4,000.00		
12.8	13.48	Finishing walls with delux multi surface paint system for interiors and exteriors using primer as per manufacture specification.LOW VOC				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
a	13.48.2	Painting wood work with delux multi surface paint of required shade two or more coat applied @ 0.90 Ltr/10 Sqm over and under coat of primer applied @0.75Ltr/10 Sqm of approved brand or manufacture.LOW VOC	sqm	40.00		
12.9	13.48.3	Painting steel work with delux multi surface paint to give an even shade two or more coat applied @ 0.90 Ltr/10 Sqm over and under coat of primer applied @0.80Ltr/10 Sqm of approved brand or manufacture.LOW VOC	Sqm	25.00		
12.10	13.6	Wall painting with plastic emulsion paint of approved brand and manufacture to give even shade (Low VOC, GRIHA approved):				
a	13.60.1	Two or more coats on new work	Sqm	4,800.00		
13.0	16.00	ROAD WORK				
13.1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of sur plus earth lead up to 50 metres.	sqm	672.00		
13.2	16.2	Extra for compaction of earthwork in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (Proctor Density)	cum	105.00		
13.3	16.3	Supply and stacking				
a	16.3.1	90 mm to 45 mm Size Stone aggregate	cum	60.00		

S. No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
b	16.3.2	63 mm to 45 mm Size Stone aggregate	cum	60.00		
c	16.3.6	Stone screening 13.2 mm nominal size (Type A).	cum	42.00		
d	16.3.9	Good earth	cum	120.00		
e	16.3.10	Moorum	cum	60.00		
13.4	16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	cum	135.00		
13.5	16.44	Extra for providing and mixing hard crete of approved quality as per manufacturer's specification in cement concrete.	litre	670.00		
13.6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete for all levels.				
a	5.22.6	Thermo- mechanically treated bars.	KG	2,200.00		

Signature of Tenderer

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Addl. General Manager (Civil)

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
14.0	22	ROOFING AND WATER PROOFING				
		Note: The Item Rates quoted shall be for all floors, heights, shapes and places.				
		Note: Ten year Guarantee bond in prescribed performa provided by HPL shall be submitted by the contractor which shall also be signed by both the specialised agency and the contractor to meet their liability under the guarantee bond. However the sole responsibility about the efficiency of water proofing treatment shall rest with building contractor. Ten percent of the cost of water proofing work shall be retained as security deposit and the amount so withheld would be released after 10 years from the date of completion of the entire works under the agreement. If the performance of the work done is found unsatisfactory and any defect (s) noticed during the guarantee period, they shall be rectified by the contractor within 7 days of receipt of intimation of defects in the works. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of the contractor.				
14.1	12.22	Making khurras 450 x 450 mm with average minimum thickness 50mm cement concrete 1 : 2 : 4 over P.V.C Sheet 1 Mtr. X 1 Mtr x 40 micron finished with 12mm cement plaster 1 : 3 and one coat of neat cement, rounding edges and making and finishing the out let complete	each	18.00		
14.2		Filling of foam concrete(AAC) in sunken slab for toilets, kitchen etc.	cum	19		
14.3	22.5	Providing and laying water proofing treatment in sunken portion of WCs,bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	sqm	263		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
14.4	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs,balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement fixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs				
		c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
a	22.7.1	With average thickness of 120mm & minimum thickness at khurra as 65 mm.	sqm	1088		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
15.0	21	ALUMINIUM WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
15.1	21.1	Providing and fixing aluminium work for doors; windows; ventilators and partitions with extruded built up standard tubular and appropriate Z sections of approved make conforming to IS : 733 and IS : 1285; anodised transparent or dyed to required shade according to IS : 1868; (Minimum anodic coating of grade AC 15); fixed with rawl plugs and screws or with fixing clips; or with expansion hold fasteners including necessary filling up of gaps at junctions; at top; bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth; rust free; straight; mitred and jointed mechanically wherever required including cleat angle; Aluminium snap beading for glazing/panelling; C.P. brass/stainless steel screws; all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately.)				
	21.1.1	For fixed portion				
a	21.1.1.3	Polyster powder coated aluminium (minimum thickness of polyster powder coating 50 micron)	kg	347.00		
	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (Fittings to be paid for separately).				
b	21.1.2.3	Polyster powder coated aluminium (minimum thickness of polyster powder coating 50 micron)	kg	660.00		
15.2	21.3	Providing and fixing glazing in aluminium door; window; ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).				
a	21.3.1	With float glass panes of 4.0 mm thickness	Sqm	40.00		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
B	21.3.2	With float glass panes of 5.50 mm thickness	Sqm	15.00		
15.3	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per drawings and directions of Engineer in Charge				
a	21.8.1	Upto 5mm depth and 5 mm width	Metre	335.00		
15.4	21.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant(Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	Sqm	12.00		
15.5	21.11	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
a	21.11.2	255 x 19mm	Each	30.00		
b	21.11.3	355 x 19mm	Each	40.00		
15.6		Aluminium grill of approved design	Kg	350.00		
16.0		UG Tank & Rain Water Harvesting Pit				
		U.G.Water Tank				
16.1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	2.8.1	All kinds of soil.	cum	45.50		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
16.2	4.1.5	1:3:6 (1Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	1.25		
16.3	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :				
a	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	11.75		
16.4	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
a	5.22.6	Thermo-mechanically treated bars	kg	2000		
		Rain water Hearwasting				
16.5	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
a	2.8.1	All kinds of soil.	cum	60.00		
16.6	4.1.5	1:3:6 (1Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	4.00		
16.7	6.1.2	Brick work	cum	20.00		
16.8		Boring and installing 100 mm dia perforated PVC pipe, ISI marked, of 4kg/sm pressure rating, as per the drawing/instructions of engineer-in-charge	M	92.00		
16.9	16.3.1	Boulders 45 to 90	cum	13.12		
16.10	16.3.5	Over-burnt (jhama) brick aggregate 90-45 mm	cum	13.12		
16.11	16.3.10	Stone screening 13.2mm nominal size (TypeA)	cum	13.12		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
16.12	16.3.7	Moorum	cum	13.12		
17.0		HORTICULTURAL AND ARBORICULTURAL WORK				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
17.1	23.1	Trenching in ordinary soil upto a depth of 60 cm. Including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth; sludge or manure).	cum	60.00		
17.2	23.2	Supply and stacking of good earth at site including royalty and carriage upto 1 km (earth measured stacks will be reduced by 20% for payment).	cum	42.00		
17.3	23.3	Supply and stacking sludge at site including royalty and carriage upto 1 km (sludge measured stacks will be reduced by 8% for payment).	cum	334.00		
17.4	23.5	Rough dressing the trenched ground including breaking clods.	100 sq.m.	40.00		
17.5		Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100 sq.m.	34.00		
17.6	23.7	Fine dressing the ground.	100 sq.m.	36.00		
17.7	23.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/and good earth to be paid separately).	Cum	45.00		
17.8	23.9	Mixing earth and sludge or manure in proportion specified or direct.	cum	36.40		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
17.9	23.1	Grassing with "Doob" grass including watering and maintenance of lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supply good earth if needed.(the good earth shall be paid for separately)				
a	23.10.2	In rows 7.5 cm apart in either direction.	100 Sqm	36.40		
17.10	23.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then the dressing for planting new grass including disposal of all rubbish with all leads and lifts.	100 Sqm	32.00		
17.11	23.13	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm; refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction of 20% : one part of stacked volume of sludge or manure after reduction by 8%); flooding with water; filling with earth if necessary; watering and finally fine dressing; levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed; within a lead of 50 m lift upto 1.5 m complete (cost of sludge; manure or extra earth to be paid for separately).	cum	54.00		
17.12	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%: 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts (cost of manure , sludge or extra good earth if needed to be paid for separately)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
a	23.14.2	Holes 60 cm dia and 60 cm deep	Each	80.00		
17.13	23.16	Providing and fixing MS flat iron tree guard 60 cm dia and 2 m height above ground level formed of 4 nos 25 x 6 mm and 8 nos 25x3mm vertical MS flats revetted to 3 nos 25 x 6 mm MS flat iron rings in two halves, bolted together with 8mm dia and 30mm long bolts including painting two coats of with paint of approved brand and manufacture over a coat of priming, complete in all respects	Each	40.00		
17.14	23.24	Flooding the ground with water including making kiaries and dismantling the same	100 Sqm	34.00		
		MISCELLANEOUS WORK (Market Rate Items)				
		Note: The Item Rates quoted shall be for heights, shapes and places, if otherwise specified in Schedule of Quantities				
		Providing and fixing 40 mm dia approved rubber buffer of required length with ordinary galvanised screws etc. complete.	Each	60.00		
		Providing and fixing in position 0.9m high Stainless steel grade 304 railing for staircase with Balustrade as per cat no. MSF 8059 at 1 m c/c and as required of Manjit Steel Fabricators or equivalent approved with three nos stainless steel pipe runners of 25mm Dia. 1.6 mm thick in centre and top stainless steel rail of 62mm Dia, 1.6mm thick, with stainless steel base plate cap 75 x 75 x 8 mm the. for balustrade, including fixing it with RCC/Brick work as instructed by Engineer in charge complete in all respects	Metre	24.00		
		Supplying and fixing in position flat number plates of buffed and bright stainless sheet 1.25mm thick, Size 75mm x 150mm, with engraved flat number(s), Smooth edges. engraving duly painted with black paint, including fixing to wall/door with four nos. stainless steel screws of required size with necessary drilling, placing dash fasteners and making good the damaged surfaces as directed by Engineer in Charge.	Each	34.00		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
		Supplying and fixing in position Block number plates of buffed and bright polished Stainless steel sheet 1.25mm thick, Size 300mm x 300mm, with engraved Block number(s), Smooth edges. engraving duly painted with black paint, including fixing to wall with four nos. stainless steel screws of required size with necessary drilling, placing dash fasteners and making good the damaged surfaces, as directed by Engineer in Charge.	Each	4.00		
			Total of Civil work Rs.			

Signature of Tenderer

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Addl. General Manager (Civil)

SANITARY, WATER SUPPLY & DRAINAGE

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
		SUBHEAD - A : SANITARY INSTALLATIONS				
1		Providing and fixing water closet squatting pan (Indian type W.C. pan)with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C.flushing cistern with dual mode system and with manually controlled device (handle lever)conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	M.R	White vitreous China Orissa pattern W.C. pan of size 724x578mm with integrated type foot rests.	Each	1		
2	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern and C.P. flush bend with fittings and C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.				
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid.	Each	29		
3	M.R	Providing and fixing white vitreous china Ceramic Water Less Urinal with accessories kit, Product code C0577 and C8145 complete, including fittings and brackets, cutting and making good the wall and floors wherever required.	Each	8		
4	17.7	Providing and fixing wash basin with C.I./M.S. brackets, 15 mm C.P. brass pillar taps, Kingston / Gem / Techno / Parko, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
		White Vitreous China				
	17.7.4	Flat back wash basin size 550x400mm with single 15 mm C.P.brass tap	Each	31		
5	M.R	Providing and fixing in position C.P.Angle Valve with Copper Connecting pipe with wall flanges.	Each	46		
6	17.31	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete.	Each	31		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount(In Rs.)
7	M.R	Providing and fixing Wall Mixer with provision of overhead shower with 115mm long bend pipe including overhead pressure adjustable shower with shower arm & wall flange complete set.	Each	2		
8		Providing and fixing Toilet paper holder				
	17.34.2	vitreous china	Each	29		
9		Providing and fixing PTMT Bottle Trap for Wash basin and sink (Prayag or equivalent)				
	17.70.1	Bottle trap 31 mm single piece moulded with height of 270mm effective length of tail pipe 260 mm from the center of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms.	Each	31		
10		Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality, colour and make, weighing not less than 90 gms (Prayag or equivalent)	Each	5		
	17.72					
11		Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100mm with 1/2" BSP thread and shapes as per BIS specification, weighing not less than 60 gms (Prayag or equivalent).	Each	6		
	17.75					
12		Providing & fixing PTMT push cock of approved quality and colour				
	18.57.1	15mm nominal bore 98mm long weighing not less than 75 gms.	Each	1		
13		Providing & fixing PTMT soap Soap Dish Holder Having length of 138mm, breadth 102mm, Height of 75mm with concealed fitting arrangements, weighing not less than 110gms	Each	36		
	18.65					
14		Providing and fixing soil , waste and vent pipe:				
		100 mm dia				
		Providing and fixing soil, waste and vent pipes.				
a	17.35.1.1	Sand cast iron S&S pipe (for rain water pipes)	metre	144		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
b	17.35.1.2	Centrifugally Cast (spun) iron S&S pipe	metre	217		
15	17.37	Providing and fixing M.S. holder - bat clamps of approved design to Sand Cast Iron / Cast Iron (spun) pipe embedded in and including cement concrete blocks 10 x 10 x 10 cm of 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of cutting holes and making good the walls etc.				
	17.37.1	For 100 mm dia pipe	Each	128		
16	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick bolts and nuts complete.				
	17.38.1	100 mm dia				
	17.38.1.2	Sand cast iron S&S as per IS: 3989	Each	14		
17	17.39	Providing and fixing plain bend of required degree.				
	17.39	100 mm				
	17.39.1.2	Sand cast iron S&S as per IS 3989	Each	46		
18	17.40.1	Providing and fixing heel rest sanitary bend 100mm dia:				
	17.40.1.1	Sand cast iron S&S as per IS-1729	Each	18		
19	17.41	Providing and fixing double equal plain junction of required degree complete.				
	17.41.1	100x 100 x 100 x100mm				
	17.42.1.2	Sand cast iron S&S as per IS: 3989	Each	0		
20	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
		100x 100 x 100 mm				
	17.43.1.2	Sand cast iron S&S as per IS: 3989	Each	14		
21	17.44	Providing and fixing single equal plain junction of required degree.				
		100x 100 x 100 mm				
	17.44.1.2	Sand cast iron S&S as per IS: 3989	Each	34		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
22	17.56	Providing and fixing terminal guard : 100 mm				
	17.56.1.2	Sand cast iron S&S as per IS: 3989	Each	14		
23	17.57	Providing and fixing collar : 100 mm				
	17.57.1.2	Sand cast iron S&S as per IS: 3989	Each	180		
24		Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter.				
	17.58.1	100 mm	Each	743		
25	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :				
	17.59.1	100 mm	Each	26		
26		Providing and fixing trap of self cleansing design with screw down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors				
	17.60.1.2	100 mm inlet and 100 mm outlet	Each	55		
27	17.61	Cutting chases in brick masonry walls for following diameter sand cast iron / centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement :4 coarse sand).				
	17.61.1	100 mm dia	Metre	10		
28		Painting sand cast iron/centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat or primer (of approved quality) for new work:				
	17.65.1	100 mm diameter pipe	Metre	361		
1	18.7	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in charge.				
a	18.7.1	15 mm nominal outer dia pipes	Metre	15		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
b	18.7.2	20 mm nominal outer dia pipes	Metre	70		
c	18.7.3	25 mm nominal outer dia pipes	Metre	115		
d	18.7.4	32 mm nominal outer dia pipes	Metre	40		
e	18.7.5	40 mm nominal outer dia pipes	Metre	18		
f	18.7.6	50 mm nominal outer dia pipes	Metre	205		
2		Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge.				
		Concealed work including cutting chases and making good the walls etc.				
a	18.8.1	15 mm nominal outer dia pipes	Metre	45		
b	18.8.2	20 mm nominal outer dia pipes	Metre	55		
c	18.8.3	25 mm nominal outer dia pipes	Metre	18		
d	18.8.4	32 mm nominal outer dia pipes	Metre	21		
3		Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This includes jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in charge.				
		External work				
a	18.9.1	15 mm nominal outer dia pipes	Metre	12		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
b	18.9.2	20 mm nominal outer dia pipes	Metre	3		
c	18.9.3	25 mm nominal outer dia pipes	Metre	30		
d	18.9.4	32 mm nominal outer dia pipes	Metre	3		
e	18.9.5	40 mm nominal outer dia pipes	Metre	4		
f	18.9.6	50 mm nominal outer dia pipes	Metre	275		
g	18.9.7	62.50 mm nominal inner dia pipes	Metre	2		
h	18.9.8	75 mm nominal inner dia pipes	Metre	4		
i	18.9.9	100 mm nominal inner dia pipes	Metre	4		
j	18.9.10	150 mm nominal inner dia pipes	Metre	4		
4		Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work).				
a	18.12.1	15mm dia. Nominal bore	Metre	5		
b	18.12.2	20mm dia. Nominal bore	Metre	5		
c	18.12.3	25mm dia. Nominal bore	Metre	5		
d	18.12.4	32mm dia. Nominal bore	Metre	5		
e	18.12.5	40mm dia. Nominal bore	Metre	5		
f	18.12.6	50mm dia. Nominal bore	Metre	5		
g	18.12.7	65mm dia. Nominal bore	Metre	5		
h	18.12.8	80mm dia. Nominal bore	Metre	5		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
5		Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete.				
	18.13.1	25 to 40 mm nominal bore	Each	25		
6	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality. (screwed end).				
a	18.17.1	25 mm nominal bore	Each	8		
b	18.17.2	32 mm nominal bore	Each	2		
c	18.17.3	40 mm nominal bore	Each	1		
d	18.17.4	50 mm nominal bore	Each	3		
9		Providing and fixing gun metal non-return valve of approved quality (screwed end).				
a	18.19.3.1	40mm dia. Nominal bore	Each	0		
		Horizontal		nos		
b	18.19.6.1	80mm dia. Nominal bore	Each	0		
		Horizontal		nos		
7	18.21	Providing and fixing unplasticised PVC connection pipe with brass unions.				
		30 cm length .				
a	18.21.1.1	15mm nominal bore.	Each	92		
8		Providing and filling sand of grading Zone V or coarse grade around the G.I. pipes in extrenal work.				
a	18.41.1	15 mm dia. pipes.	Metre	12		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
B	18.41.2	20 mm dia. pipes.	Metre	2		
c	18.41.3	25 mm dia. pipes.	Metre	30		
d	18.41.4	32 mm dia. pipes.	Metre	4		
e	18.41.5	40 mm dia. pipes.	Metre	4		
f	18.41.6	50 mm dia. pipes.	Metre	275		
g	18.41.7	65 mm dia. pipes.	Metre	4		
h	18.41.8	80 mm dia. pipes.	Metre	4		
9	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI ; 12701 marked indicating the BIS License No. with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank (Sintex, Electroplast, Star, Lotus or equivalent having valid ISI license).	Its	30000		
10		Providing and fixing tank nipples of following sizes in polyurethelene water storage tanks				
a	M.R	20 mm dia inlet	Each	2		
b	M.R	25 mmdia overflow	Each	4		
c	M.R	32 mm scour	Each	5		
d	M.R	40mm dia outlet	Each	0		
e	M.R	50mm dia outlet	Each	3		
11		Providing & fixing PTMT (An Engineering thermoplastic)stop cock of approved quality colour and make (Prayag or equivalent)				
	18.55.1	15mm nominal size, 86mm long ,90mm high and43 mm wide with 12mm seat dia replaceable washers weghing not less than 90 gms.	Each	11		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
12		Cutting holes upto 30x30cm in walls including making good the same.				
	18.76.1	With F.P.S bricks	Each	20		
13		Making chases upto 7.5x7.5 cm in walls including making good after housing G.I. pipes etc.				
	18.78		Metre	2		
14		Dismantling old C.I. Pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre.				
a	18.82.1	80 mm diametre C.I. Pipe.	Metre	0		
b	18.82.2	100 mm diametre C.I. Pipe.	Metre	0		
15		Labour for cutting C.I. Pipe with steel saw.				
a	18.83.1	80 mm diametre C.I. Pipe.	each cut	0		
b	18.83.2	100 mm diametre C.I. Pipe.	each cut	0		
		SUB HEAD - C : SEWER DRAINAGE				
1		Providing , laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.				
a	19.1.1	100 mm diametre	Metre	15		
b	19.1.2	150 mm diametre	Metre	75		
2		Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around S.W. pipes including bed concrete as per standard design.				
a	19.2.1	100 mm diametre S.W. Pipe	Metre	15		
b	19.2.2	150 mm diametre S.W. Pipe	Metre	75		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
3		Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.				
a	19.6.2	150 mm dia R.C.C. Pipe	Metre	2		
b	19.6.3	250 mm dia R.C.C. Pipe	Metre	3		
c	19.6.4	300 mm dia RCC pipe	Metre	2		
4		Providing and laying HDPE pipes with all necessary joints and fitting including testing of joints etc. complete as per direction of Engineer in Charge.. (Optional)				
a	MR	100 mm dia Pipe	Metre	2		
b	MR	150 mm dia Pipe	Metre	2		
c	MR	250 mm dia Pipe	Metre	4		
d	MR	300 mm dia Pipe	Metre	2		
5		Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement as per standard design.				
a	19.7.1.1	Inside size 90 x 80 cm and 60 cm deep including C.I. cover with frame (light duty) 455 x 610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg).	Each	4		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (InRs.)
B	19.7.1.1 7130	Inside size 90 x 80 cm and 60 cm deep including precast RCC. cover with frame (light duty) 600 x 450 mm.	Each	0		
		With FPS bricks of class designation 75		nos		
c	19.7.2.1	Inside size 120 x 90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg).	Each	9		
d	19.7.2.1 7134	Inside size 120 x 90 cm and 90 cm deep including precast RCC cover with frame (medium duty) 500 mm internal diameter.	Each	0		
		With FPS bricks of class designation 75				
6		Extra for depth for manholes				
a	19.8.1.1	Size 90x80 mm With F.PS bricks of class designation 75	Metre	1.0		
b	19.8.2.1	Size 120x 90 mm With F.PS bricks of class designation 75	Metre	1.0		
7		Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at in cement mortar 1:4 (1 cement : 4 coarse sand) in side cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 2 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel, in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement as per standard design.				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
		0.91 m deep with S.F.R.S. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand:4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately)				
a	19.9.1.1	With F.P.S. bricks class designation 75	each	2		
8	19.10.1	Extra depth for circular type manhole 0.91m internal dia (at bottom) with beyond 0.91m to 1.67m				
		With F.P.S. bricks class designation 75	each	2		
9	19.16	Providing orange colour safety foot rest of minimum 6mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23mm x 25mm and over all minimum length 263mm and width as 165mm with minimum 112mm space between protruded legs having 2mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size) complete as per design.	each	20		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
10	19.19.3	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality				
		H D -20				
	19.19.3.1	Circular shape 560 mm internal diameter	each	2		
11		Dismantling of manhole including R.C.C. top slab, C.I. Cover with frame including stacking of usefule materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead :				
a	19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	each	2		
b	19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	each	2		
12		Constructing brick masonry road gully chamber 50 x 45 x 60 cm with bricks of class designation 75 in cement mortar 1:5 (1 cement : 5 fine sand) including 500 X 450 mm precast R.C.C. horizontal grating with frame complete as per standard design:				
	19.27.1	With F.P.S. bricks	each	2		
		SUBHEAD - D - RAIN WATER DRAINAGE				
1	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.				
a	19.6.2	150 mm dia R.C.C. Pipe	Metre	2		
b	19.6.3	250 mm dia R.C.C. Pipe	Metre	20		
c	19.6.4	300 mm dia RCC pipe	Metre	2		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
2	19.27	Constructing brick masonry road gully chamber 50 x 45 x 60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 500 X 450 mm precast R.C.C. horizontal grating with frame complete as per standard design:				
a	19.27.1	With F.P.S. bricks	each	1		
b	MR	Extra for depth for road gully chamber				
	MR	Size 50x45 cm With F.PS bricks of class designation 75	Metre	1.0		
3		Constructing brick masonry road gully chamber 110 x 50 x 77.5 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 500 X 450 mm precast R.C.C. horizontal grating with frame complete as per standard design:				
	19.27.1	With F.P.S. bricks	each	1		
		Extra for depth for road gully chamber				
	MR	Size 110x50 cm With F.PS bricks of class designation 75	Metre	1.0		
4	19.16	Providing orange colour safety foot rest of minimum 6mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minium cross section as 23mm x 25mm and over all minium length 263mm and width as 165mm with minium 112mm space between protruded legs having 2mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail lenth on 138mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent indentification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size) complete as per design.	each	5		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
5	MR	Constructing brick masonry (230mm thick wall in cement mortar 1:4) storm water drains 450mm wide & 250mm starting depth, with SFRC perforated grating / cover size 500X450 MM, 100mm thick foundation concrete 1:5:10 .Cost shall include all associated civil works like excavation in all types of soil, backfilling & disposal of surplus excavated earth as directed at site, complete as per standard.	Metre	275		
		Notes : The rates given for all the items under sub head - D are applicable to work executed in soils above sub soil water level. Extra allowance has to be made for work under sub soil water level.				
		SUBHEAD - E - RAIN WATER HARVESTING				
1	M.R	Providing,boring lowering and fixing 160mm dia UPVC (Working pressure-6kg/sqcm) pipes with 3mm size slots depth as per drawing & direction of engineer in charge complete in all respects.Cost shall include approval from Ground Water Authority.	metre	180		
2	M.R	Supplying and filling in Rain water harvesting tank stone boulders 50 - 200 mm size including all associated works complete.	cum	18		
3	M.R	Supplying and filling in Rain water harvesting tank gravels 5 - 10 mm and down size including all associated works complete.	cum	18		
4	M.R	Supply pea-gravel of approved quality in stacks and then packing the same into the annular space between the tubewell assembly and bore hole.	cum	18		
5	M.R	Supplying and filling in Rain water harvesting tank coarse sand 1.5 to 2.0mm including all associated works.	cum	18		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
		SUBHEAD-F-TUBEWELLS				
1	MR	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
		All types of soil				
		350 mm dia.	metre	392.60		
2	MR	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
		150 mm nominal size dia.	metre	539.15		
3	MR	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well screen (RMS) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
		150 mm nominal size dia.	metre	544.15		
4	MR	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	842.80		
5	MR	Development of tube well in accordance with IS : 2800 (part I) and IS:11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc. all as per requirement and direction of Engineer-in-charge.	hour	549.10		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
6	MR	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
		150 mm dia	each	182.95		
7	MR	Providing and fixing M.S. clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
		150 mm clamp.	each	1,033.10		
8	MR	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
		150 mm dia	each	206.1		
9	MR	Providing and laying 3 x 4.0 sqmm copper submersible cable including making connections with submersible pump and panel board as required	Metre	125		
10	MR.	Supply and installation of fully submersible type multi-stage tubewell pump with stainless steel body/impellers and water cooled motor suitable for 400/440 Volts, 3 phase, 50 cycles AC supply complete in all respects.				
		Capacity of Pump=1000lpm, Head=92mtr.	each	1		
11	MR.	Supply and installation of monoblock multi-stage/single stage clear water pump with CI body bronze impellers and TEFC motor suitable for 400/440 Volts, 3 phase, 50 cycles AC supply complete in all respects with ball valve, pressure gauge, NRV on delivery side and foot valve in suction pipe as required				
		Capacity of Pump=20000lph, Head=65mtr.	each	6		
12	MR.	Providing and fixing dust & vermin proof cubicle type motor control centre fabricated from powder coated 16 SWG MS sheet comprising of:				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
		Incomer:				
		One incoming main isolation TP& Neutral link MCCB of 100 A rating				
		One fully taped aluminium bus bar of 150A capacity in separate bus bar chamber.				
		One square panel type Voltmeter reading 0-500 V with rotary selector switch for reading voltage between phases.				
		One panel type Amperemeter with selector switch and CT				
		3 phase indication lights				
		Outgoing				
		6 nos. DOL Starter suitable for 10 HP. (1 working+1 standby)				
		6 nos. single phase preventors of suitable rating one for each motor				
		6 nos. 63A TP & Neutral link MCCB one for each motor				
		6 nos. rotary type auto/manual off selector switch.				
		Space for 2 Nos. liquid level controller				
		Appropriate etched aluminium identification plate for each starter/switch.				
		Colour coded internal wiring from main to bus bar, switchgear, starters, indicating lamps complete in all respects.	set	1		
13	MR.	Providing and fixing liquid level controller for pumps including probes, wiring, cable, conduit and making connection to pump panel complete in all respect and making system functional.				
		Tubewell Pumps				
		One number sensor at high level of UG water tank to cut-off pump. One number sensor at low level of UG water tank to cut-in pump.	each	1		
14	MR.	Providing and fixing heavy duty PVC insulated, PVC armoured aluminium conductor cables 1100V grade including necessary support clamps and connection lugs complete in all respects.				
a		a) power cable 3.0 core 6 sqmm.	metre	20		
b		b) power cable 3.0 core 10 sqmm.	metre	20		
15	MR.	Providing and fixing copper earthing wire 2 Nos. 6mm dia from motor and MCC panel to be connected in an approved manner to the general earthing system	metre	20		

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
16	MR	Providing and fixing of three phase 50 Hz 450 LPM capacity at 10M head submersible pumps for lifting basement drain water to ground level with CI body, CI impellers for 415 V 50 Hz water cooled motor complete with motor starter MCB, voltmeter, ammeter, pressure gauge, cable from motor to panel, liquid level controller including gate vlve, Non return valve, Pressure gauge complete in all respects.	Each	2		
		SUBHEAD - G- STP				
1	MR	SULLAGE TREATMENT PLANT (STP WITH UF SYSTEM)				
		Flow- 10 m3/day				
		pH Input 7 to 9 ppm Output 6.5 to 8 ppm	-			
		T.S.S Input 300 to 400 ppm Output < 2 ppm	-			
		B.O.D Input 400 to 500 ppm Output < 05 ppm	-			
		C.O.D Input 800 to 1000 ppm Output < 25 ppm	-			
		OIL Input 50 to 75 ppm Output Nil	-			
		E-Coli Input 1000000 MPN/100 ml Output Nil	-			
		Supply, installation, testing and commissioning of Sullage treatment Plant (Pre treatment with Ultrafiltration System) waste water treatment of capacity 10cum/day . The system shall comprise minimum following items:-	Nos	1		
a		Bar Screen consisting of vertically placed SS 304 flat bars 25mm x 10mm running parallel to each other with maximum clear spacing of 10mm between each other or as required by the system and covering full width and height of the channel of the bar screen chamber and projecting upwards to one meter length with suitable lifting arrangement if required. This screen surface should be rigidly fabricated frame with horizontal support flats at required spacing and a bottom angle for anchoring at the channel base. There should be two sides supports for anchoring at the channel top. The surface should be perfectly at right angles to the channel. Discharge chute on the rear of the screen surface should be provided. All required hardware etc. should be provided. (1 no.)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
B		Sewage feed centrifugal pumps shall be complete in CI body, Bronze impeller and EN8 shaft with mechanical seal, TEFC induction motor mounted on a common channel base plate with coupling guard. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. The duty conditions of the pump should be minimum 3.5 cum/hr @ 2.5 kg/sqcm. (2 nos.)				
c		Twin type roots air blowers capable of delivering free air through "V" belt or directly coupled through flexible coupling to a TEFC motor of suitable HP Suitable for $415 \pm 10\%$ volts, as per manufacturers design and specifications. However the minimum duty conditions of each blower would be 55 cum/hr @ 0.45m. Air blowers shall be provided with standby arrangement. Blowers shall be either of positive displacement or centrifugal with pressure vessel type complete with motor, base-plate, inlet filter, intake silencer and off-load starting system outlet silencer, anti-vibration damper, flexible coupling, filter restriction indicator, non-return valve, pressure relief valve, V-belt system or direct drive coupling. The casing rotor shall be of cast iron construction. Bearings and gears shall be grease lubricated. Motor speed shall be 1500rpm. (2 nos.)				
d		Aeration by air grid HDPE pipes in Equilisation tank, Sludge Holding & any other tank as required. (1 no.)				
e		Flocculator cum tube settling system consisting of Mild steel flocculator with slow speed agitator and tube settler., internally FRP lined and externally painted with two coat of red oxide primer and two or more coat of synthetic enamel paint. Tube settler to be designed at a rise rate of maximum 2m/hr. Inclined tube bundle media at an angle 60 deg made of each tube size of 50mm x 50mm in rigid PVC. FRP Lining should be minimum 3 mm thick. Internal lining to be bonded to steel structure with isophthalic resin. Mild steel tanks should be designed to IS 803, wherever applicable. Thickness of the MS sheet to be minimum 6 mm. Auto des ludging valve to be provided for draining the sludge. (1 no.)				
f		Lime dosing centrifugal pump (open impeller type) of capacity 1000 lts/hr @ 20m in CI body, Bronze impeller and EN8 shaft with mechanical rotary shaft seal, TEFC induction motor mounted on a channel base plate with coupling guard along with minimum 500 liters MS tank having hopper bottom along with agitator. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. (1 no.)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
g		Chemical Dosing Systems each consisting of a positive displacement diaphragm dosing pump having variable flow rate of 0-6 LPH minimum and 500 liters MS internally FRP lined tank with agitator. The motor shall be suitable for operation at 240V/single phase/50Hz supply. The pump shall be supplied complete with necessary polypropylene piping, valves, strainers & injection fittings, (2 nos.)				
h		Vertical/Horizontal centrifugal filter feed pumps shall be complete in CI body, SS impeller and shaft with mechanical rseal, TEFC induction motor mounted on a common channel base plate with coupling guard. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. The duty conditions of the pump should be minimum 3.5 cum/hr @2.5 kg/sqcm. (2 nos.)				
i		Vertical Mild Steel Garnet Filter conforming to IS 2062, internally epoxy painted and externally painted with 2 coats of red primer and 2 coats of enamel paint. The Working pressure shall be 3.5 kg/cm ² and test pressure 1.5 times working pressure. The Filter shall be supplied with complete first fill of filtration media like Garnet and with all required supporting media like gravels, pebbles etc. Thickness of shell and dished end to be designed as per IS 2825. Frontal piping to be internally epoxy painted with microprocessor based auto MPV suitable for service and backwash operations. Filter shall be supplied with Inlet , outlet sampling point with presure gauges. Filter shall be capable of accomodating the following flowrate and parameters. (1 no.)				
		Discharge : 3500 lph				
		Filtration Rate : 15,000 lit/h/m ²				
		Suggested dia app. : 600 mm				
		Frontal diameter : 50 mm				
j		Fully automatic Ultra Filtration Membrane System suitable for permeate of minimum 10-11 cum/hr . The system should be designed at a maximum flux of 40-45 GFD. Minimum automation required in UF system is as follows: Auto start stop of UF feed pumps based on UF feed and permeate tank level controllers, Programmable logic controller with preset time for service and backwash cycle, Auto shut off of UF feed pump during backwash cycle, Auto chemical enhanced cleaning of UF membranes based on count of backwash cycles. The spirally wound membranes should be submerged in a PPFRP tank of suitable dimensions and SS 304 header manifold for membranes along with necessary accessories and hardware. (1 no.)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
k		Vertical/Horizontal membrane suction permeate centrifugal pumps shall be complete in CI body, SS impeller and shaft with mechanical seal, TEFC induction motor mounted on a common channel base plate with coupling guard. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. The duty conditions of the pump should be minimum 3.5 cum/hr @1.0 kg/sqcm. (2 nos.)				
l		Centrifuge feed centrifugal pumps shall be complete in CI body, Bronze impeller and EN8 shaft with mechanical seal, TEFC induction motor mounted on a common channel base plate with coupling guard. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. The duty conditions of the pump should be minimum 1.5 cum/hr @1.5 kg/sqcm., (2 nos.)				
m		Vertical/Horizontal membrane backwash centrifugal pumps shall be complete in CI body, SS impeller and shaft with mechanical seal, TEFC induction motor mounted on a common channel base plate with coupling guard. Motor to be suitable for 400/440 V, 3 phase, 50 cycles AC power supply. The duty conditions of the pump should be minimum 9 cum/hr @1.0 kg/sqcm. (2 nos.)				
n		Dosing System set for chemical enhanced backwash each consisting of a positive displacement diaphragm dosing pump having variable flow rate of 0-6 LPH minimum and 100 liters tank of HDPE construction. The pump shall be supplied complete with necessary polypropylene piping, valves, strainers & injection fittings, (2 nos.)				
o		Top discharge type MS Basket centrifuge with SS basket suitable for 3 batches per day complete with all other accessories etc. The minimum size of the basket should be 20" x 10". The system is to be provided with motorised lifting arrangement. (1 no.)				
p		1100 volt grade PVC sheathed aluminum/copper conductor armoured cables of suitable sizes for the drives with cable end terminations as required within the RO system. Only Copper Cabling for control wiring. The cable to be routed through perforated GI. cable tray including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly supported from ceiling with M.S. suspenders and including painting with two coats of enamel paint over a coat of primer. (1 no.)				
q		Supply and fixing of following bare GI tapes / wires including all necessary fixing accessories and effecting connections. Minimum 8 SWG GI wire and 25 x 6 mm thick GI strip. To be used for earthing. (1 no.)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
r		Distribution cum control panel shall be fabricated out of 12/14 gauge CRCA sheet steel with reinforcement of suitable size angle iron, channel 'T' sections irons and/or flats wherever necessary. Cable gland plates shall be provided at the bottom of the panels. Panels shall be treated with all anticorrosive process before painting as per specifications with final approved shade of powder coated paint. Lifting hooks shall also be provided in case of large panels. Necessary cable alleys, internal wiring, control wiring, interlocking for all equipments shall also be included in cost of the panel. Control panel shall have following details. (1 no.)				
		Supply voltage - 415v ± 10%				
		Frequency - 50hz ± 5%				
		Quantity - 1 no.				
		Application - indoor				
		CONSTRUCTIONAL PARTICULARS				
		Type construction - fixed type (non drawout), single front, free standing, floor mounting				
		Degree of protection - ip 55				
		Site condition - dust & vermin proof, operating temp 55°c				
		Colour shade - siemens gray, powder coated				
		PANEL FABRICATION				
		Sheet thickness - 12/14 gauge crca				
		Cable entry – bottom				
		BUSBAR				
		Busbar material – aluminium				
		Short time rating - 50ka for 1 sec				
		Earth busbar – aluminium				
		INCOMER				
		Sfu - 1 no				
		Cts - 3 nos				
		Electronic power meter - 1 no (which indicate amp/vol/kwh/pf etc)				
		Supply on indicating lamp - 3 nos				
		DOL STARTER (UPTO 7.5 Kw)				
		Mpcb - 1 no, tp mpcb, locking arremgement with overload protection.				
		Overload relay - 1 no				
		Power contactor - 1 no				
		Push button with 1 element - start / stop inbuilt indication				
		Motor trip lamp - 1 no, each led type				
		STAR DELTA STARTER (ABOVE 7.5 KW)				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)
		Mpcb - tp, mpcb, 1 no with locking arrangement with overload protection				
		Power contactor - 3 nos				
		Timer - 1 no				
		Push button with 1 element - start / stop with inbuilt indication				
		Motor trip lamp - 1 no. Each cluster led type.				
		WIRING				
		Size - power, ct - min. 2.5 sq.mm				
		LOGIC CONTROLLER				
		Item - preprogrammed logic controller for uf				
		Qty - 1 no				
		MIMIC				
		Item - mimic depicting the plant overview with led indication and alarms				
		Qty - 1 no				
		NAME PLATE				
		Provided with inscription plates engraved aluminium white				
		Letters on black background the letter size shall be 3 mm				
		NOTE				
		Contractor to submit single line diagram				
		For switchgear component selection shall be as per type - 2 coordination chart (is 13947)				
		All Engraved legends provided for all instruments, components as per wiring				
		Diagram. Caution plates provided for busbar / chambers / incomers.				
		Plastic covered labels for lamps & switches.				
s		Interconnecting pipework including valves, strainers, NRV etc. (1 no.)				
		Suitable heavy class MS pipes conforming to IS-1239 with all accessories like all fittings including tees, elbows, reducers, union, flanges, rubber gaskets, washer including galvanised supporting/fixing the pipe on floor / wall / ceiling with clamps, hangers (using anchor fasteners) as per specification. Cost shall be inclusive of providing & fixing header as required of appropriate flange ends, dirt leg, water in / out flange connection as required. G.I. pipe sleeve of suitable higher size shall be provided wherever the pipes are crossing the walls/floors as per requirement including cutting holes and chases in brick, R.C.C work and making good the same to original conditions complete in all respects.				

S.No.	DSR-2007 Ref	Description	Unit	Qty	Rate (Rs.)	Amount (In Rs.)	
T		Electrically/Pneumatically actuated C.I.Butterfly valve of approved make with with companion flanges as per table BS 10D, union / flange, washer, nuts & bolts wherever required. (1 no.)					
u		Instruments and Instrumentation as required, however the following minimum items to be included : (1 no.)					
		Digital Energy meter x 1no.					
		Digital magnetic flow meter for on line measuring of the inlet sewage and treated water outlet x 2nos					
		Online pH meter x 1no.					
v		Anything specific not mentioned however mandatory for plant running & performance.(Give Complete details,jusification with feasibility)					
		TENTATIVE STP CIVIL UNIT VOLUMES - (CIVIL CONTRACTOR SCOPE)					
I		BAR SCREEN/ OIL & GREASE CHAMBER & EQUILISATION TANK- 8 M3					
II		FILTER FEED TANK- 5 KL					
III		TREATED WATER TANK- 10 KLD					
IV		SLUDGE HOLDING TANK - 5 KLD					
		TOTAL OF SAINTRY, WATER SUPPLY & DRAINAGE				Rs.	

ELECTRICAL WORK

S.No	SOR-2007/ MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
1.01		Wiring for light point/fan point / exhaust fan point / call bell point with 1.5 sq .mm.FRLS PVC insulated copper conductor single core cable with 1x1.5 sq mm FRLS PVC insulated copper conductor cable for loop earthing in surface/ recessed steel conduit including suitable GI box, moduler type switch,moduler type plate . as required				
a	1.3.2	Group B	point	75		
b	1.3.3	Group C	point	550		
1.02	1.4	Wiring for twin control light point with 1.5 sq,mm. FRLS PVC insulated copper conductor single core cable in surface /recessed steel conduit with 2 way 5/6 Amp modular type switch etc. as required.	Point	12		
1.03	1.5	Wiring for light/power plug with 2x4 sq.mm. FRLS PVC insulated copper conductor single core cable in surfaced/recessed steel conduit along with 1 No. 4 sq mm. FRLS PVC insulated copper wire for loop earthing as required.(but without switches sockets & switch boxes)	Mtr	1300		
1.04	1.6	Wiring for light / power plug with 4x4 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit alongwith 2 No 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr	1300		
1.05	1.7.4	Wiring for power plug with 2x6sq mm FRLS PVC insulated copper conductor in surface / recessed steel conduit along with 1 no.6 sq mm FRLS PVC insulated copper wire for loop earthing as required (but without switches / socket / switche boxes) for AC	mtrs	1250		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
1.06		Wiring and drawing following size of FRLS PVC insulated copper conductor cable in surface /recessed steel conduit for circuit wiring , power point wiring and UPS point wiring (DB to switch board) etc. as required.(including conduit & conduit accessories)				
a)	1.7.2	2x2.5 +1x2.5 sq mm (For light ckt)	mtr	1000		
b)	1.7.2	2x2.5 +1x2.5 sq mm (For UPS ckt)	mtr	1200		
c)	1.7.8	4x2.5 sq.mm + 2x 2.5 sq mm earth wire	mtr	800		
1.07		Wiring for sub main wiring with the following sizes of FRLS PVC insulated, copper conductor, cable in surface /recessed steel conduit as required.				
a)	1.7.11	4x10 +2x10 sqmm	mtr	840		
b)	1.7.12	4x16 + 2x16 sq-mm	mtr	25		
c)	1.7.12	4x25 + 2x16 sq-mm	mtr	150		
d)	1.7.5	2x10 sq.mm + 1x 10 sq mm earth wire	mtr	80		
1.08	1.31	Supply and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 3 pin 5/6 & 5/6 amps modular uni D socket outlet and 5/6 amps modular switch, connection, painting etc as required.(For light plugs to be used only in non-residential buildings.)	each	110		
1.09	1.32	Supply and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc as required.	each	70		
1.10		Supply, fixing, connecting, testing and commissioning of following items along with modular base & cover plate for modular switch sockets in recess etc. as required.				

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount (In Rs)
a)	1.24.1+ 1.27.1	6 Amps switch. (For exhaust fan)	each	10		
b)	1.24.4+ 1.27.1	6 Amps 5 Pin modular socket (For exhaust fan)	each	10		
c)	1.24.1+ 3x1.24. 4 + 1.27.4	3 Nos 6 Amps sockets controlled by 1 no 16 amp switch in a box of approved color for UPS Power	set	10		
d)	1.24.1+ 2x1.24. 4 + 1.27.4	2 Nos 6 Amps sockets controlled by 1 no 6 amp switch in a box of approved color for UPS Power	set	40		
e)	1.24.1+ 1.24.4 + 1.27.2	1 Nos 6 Amps sockets controlled by 1 no 6 amp switch in a box of approved color for UPS Power	set	14		
1.11	2.62	Supplying and fixing of 20 amps,240 volts,SPN industrial type,socket outlet,with,metal enclosed plug topalong with 32 amps. "C" series,SP MCB,in sheet steel encloser,on surface or in recess,with chained metal cover for the socket outlet and complete with connection,testing and commissioning etc. as required.for server AC & GEYSER	set	50		
1.12	2.64	Supplying and fixing of 32 amps,440 volts,TPN industrial type,socket outlet,with,metal enclosed plug topalong with 32 amps. "C" series,TP MCB,in sheet steel encloser,on surface or in recess,with chained metal cover for the socket outlet and complete with connection,testing and commissioning etc. as required.AC	set	5		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount (In Rs.)
1.14	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connection but excluding modular plate etc. as required.	each	95		
1.15	(MR)	Supplying and fixing of 16 SWG M.S. Fan Box 12.5" Rod but without fan cover (hylam sheet)	each	95		
1.16	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	each	450		
1.17	2.53	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	each	60		
1.18	1.38	Supplying and fixing call bell buzzer suitable for D.C./A.C single phase 230 volts, complete as required.	each	26		
1.19	(MR)	Providing & fixing cable Tray of Following size complete in all respect as required.				
	a)	150x50x2 mm thick	mtr	10		
	b)	300x50x2 mm thick	mtr	10		
2.01		Supplying and fixing of Following sizes of PVC conduit along with the accessories like Junction boxes, bends, socket, fish wire etc. on surface/recess with M.S. Clamps, nuts and bolts including cutting of the wall and making good the same in case of recessed conduit as required. (data,telephone/CCTV)				
a)	1.21.2	25mm	mtr	1800		
b)	1.21.3	32mm	mtr	400		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
2.02		Supplying and fixing of Following sizes of Steel conduit along with the accessories like Junction boxes, bends, socket, fish wire etc. on surface/recess with M.S. Clamps, nuts and bolts including cutting of the wall and making good the same in case of recessed conduit as required.				
a)	1.21.2	25mm	mtr	2000		
2.02		Supply, fixing, connecting and testing of telephone/computer /TV modular sockets modular plate anodised MS box and blanking plate in surface / recessed including connection etc as required.				
a)	1.27.1+ 1.26+1. 24.6	RJ-11 telephone socket two line with shutter	each	55		
b)	1.27.1+ 1.26+1. 24.7	T.V. CO-axial cable socket outlets of one point	each	12		
c)	(MR)	RJ-45 face plate(computer line) with shutter DN-460	each	64		
2.03		Providing, fixing connecting and testing of solder less telephone tag block of following capacity ties as required in suitable size of m.s. hinged lockable cover box duly painted etc. as required of Krone type.				
a)	(MR)	10 pair Tele Tag Blk	each	10		
b)	(MR)	20 pair Tele Tag Blk	each	1		
c)	(MR)	100 pair Tele Tag Blk	each	1		

S.No	SOR-2007/ MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
2.04		Supplying drawing, connecting and testing of 0.61mm dia annealed copper conductor PVC insulated PVC sheathed telephone Wire/cables in Existing M.S/ PVC conduit or a racks as required.				
a)	1.18.2	2 pair Telephone cable. (0.61sq mm)	mtr.	1100		
b)	(MR)	10 pair Telephone cable	mtrs	400		
c)	(MR)	20 pair Telephone cable	mtrs	20		
d)	(MR)	60 pair Telephone cable	mtrs	80		
2.05	(MR)	Supplying drawing, connecting and testing of 10 pair Telephone armoured cable for Main incoming in Existing M.S/ GI racks as required.	mtr.	120		
2.06		Supplying drawing, connecting and testing of soiled annealed bare electrolytic grade copper conductor co-axial cable (75 ohms) with gass injected physical from PE di electric poly-lamineted aluminium tape followed by aluminium alloy braiding (95% coverage), jelly filled & overall PVC sheathed cables in Existing M.S/ PVC conduit or a racks as required.				
a	1.19	RG-6	mtr.	150		
b	(MR)	Cat 6	mtr.	1200		
2.07		Supplying and fixing metal box of following sizes (nominal size) on surface or in reces with suitable size of phenolic laminated sheet cover in front including painting etc as required.				
a)	1.22.1	75 mm x 75 mm x 60 mm deep	Each	10		
b)	1.22.2	100 mm x 100 mm x 60 mm deep	Each	10		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
c)	1.22.3	150 mm x 75 mm x 60 mm deep	Each	20		
d)	1.22.4	150 mm x 75 mm x 60 mm deep	Each	20		
e)	1.22.5	180 mm x100 mm x 60 mm deep	Each	15		
SUB-HEAD III: DISTRIBUTION BOARDS MV PANEL & METAL CLAD SOCKETS ETC.						
3.01		Supplying, installing, testing & commission of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 200 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways (but without MCB's and incomer) as required :				
3.01 a)	2.35.3	12 way with 100 amps MCCB as incomer (for AC)	each	4		
3.01 b)	2.42.8	12 way (4 + 36) Double door	each	1		
3.01 c)	2.33.6	8 way (4 + 24) Double door	each	16		
3.01 d)	2.33.5	6 way (4 + 18) Double door	each	12		
3.01e)	2.32.4	2+16 way Double door	each	4		
3.02		providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections etc, as required.				

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
a)	2.22.4	100 Amp TP+N link MCCB	each	4		
b)	(MR)	63 Amp TPN (10 KA) MCB	each	17		
c)	(MR)	40 Amp TPN (10 KA) MCB	each	12		
d)	(MR)	40 Amp SPN (10 KA) MCB	each	4		
3.03		Supplying and fixing following rating, double pole (single phase and neutral) 240 volts, residual current circuit breaker (RCCB) having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
		RCCB's :-				
a)	2.56.3	63 Amp SPN RCCB with 100 ma fault current rating (1 No. per phase)	each	51		
b)	2.56.2	40 Amp SPN RCCB with 100 ma fault current rating (1 No. per phase)	each	36		
c)	2.56.1	25 Amp SPN RCCB with 100 ma fault current rating (1 No. per phase)	each	4		
3.04		Supplying and fixing 5 amps to 32 amps rating, 240 volts. 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required				
a)	2.52.1	6-32 Amp (10 KA) SP MCB C' Series	each	434		
3.05	MR	63/100 amp 4P 25 KA MCCB with enclosure for precision AC	each	2		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
		Sub head IV:- Erection of Fans & Fixtures.				
4.01	1.33	Supplying & fixing ceiling roses On the existing junction Box/wooden block l/c connections etc. as required	each	5		
4.02	1.35	Erection of wall bracket Fan of sweep in 400 mm complete with all accessories i/c connections etc. as required.	each	25		
4.03	1.35	Erection of wall bracket/ceiling fittings of all sizes and shapes containing upto two GLS lamps per fitting complete with all accessories i/c connections etc. as required.	each	25		
4.04	1.41	Installing,testing and commissioning of pre-wired FL / CFL/LED fittings of all types complete with all accessories and tubes etc. directly on ceiling/wall including connections with 1.5 sqm mm. PVC insulated copper conductor single core cable etc. as required	each	70		
4.05	(MR)	Installing,testing and commissioning of pre-wired FL / CFL/LED fittings of all types complete with all accessories and tubes etc. directly on ceiling/wall including connections with 1.5 sqm mm. PVC insulated copper conductor single core cable etc. as required	each	310		
4.06	1.45	Installation, testing and commissioning of ceiling fan including wiring the down rod of standard length upto 30 cm.) with 1.5 sq.mm. PVC insulated copper conductor single core cable including providing and fixinf phenolic laminated sheet cover on the fan box etc. as required.	each	105		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
4.07	1.49	Supplying and fixing extra down rod of 10 cm length G.I. pipe 20 mm.dia heavy gauge including painting etc. as required. Note: more than 5 cm. length shall be rounded off to the nearest 10 cm. and 5 cm or less shall be ignored.	each	1395		
4.08	1.47	Extra for cutting and threading of G.I. pipe heavy gauge down Rod for ceiling Fan etc. as required.	each	1395		
4.09	1.51	Numbering of ceiling fan/Exhaust fan/Fluorescent fittings as required.	each	650		
4.10	1.52	Installation of Exhaust fan upto 450 mm. sweep in the existing opening i/c making the hole to suit the size of the above fan making good the damage, connections, testing commissioning etc. as required	each	26		
4.11	1.54	Extra for fixing the louvers/shutters complete with FRLSame for Exhaust fan of all sizes.	each	13		
5.01	(MR)	Supply of following <u>light fixture with holder, lamp, connecting terminal internal wiring complete with all fixing accessories as required.</u>				
		-				
a)		34/36 watt (Input) watt surface/recessed mounting LED Type light fixture with all accessories complete as required Cata. Ref. QUADRA 2X2 Goldwyn make or approved equivalent makes	No.	40		
		-				
b)		24/26 watt (Input) watt surface/recessed mounting LED Type light fixture with all accessories complete as required Cata. Ref. QUADRA 2X2 Goldwyn make or approved equivalent makes	No.	190		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
c)		20/21 watt (Input) watt surface mounting LED Type light fixture with all accessories complete as required Cata. Ref. CORONA OPAL Goldwyn make or approved equivalent makes	No.	75		
d)		35/36 watt (Input) watt surface/recessed mounting LED Type light fixture with all accessories complete as required Cata. Ref. BRIGADE Goldwyn make or approved equivalent makes	No.	10		
e)		12/13 watt (Input) watt surface/recessed mounting LED Type light fixture with all accessories complete as required Cata. Ref. DHRUVA Goldwyn make or approved equivalent makes	No.	47		
f)		18 watt (Input) surface/ Wall mounting LED Type light fixture with all accessories complete as required Cata. Ref. SUPAR FLAT Goldwyn make or approved equivalent makes	No.	8		
5.02		Supplying, of sweep A.C. ceiling fans complete with fan motor, blades, down rod, canopy fan hook etc. as required.				
a		1400mm	each	12		
b		1200mm	each	90		
c		900mm	each	6		
5.03		Supplying of under note sizes of heavy duty exhaust fans complete with fan motor, blades fixing frame, louver etc as required of havells makes or equivalent.				
5.03 a		450 mm exhaust fan 900 RPM	each	3		
5.03 b		305 mm exhaust fan 1400 RPM	each	10		
5.03 c		225x225 mm pvc Newtech Ex. Fan	each	16		
5.04		Supply of wall bracket Fan of sweep in 400 mm complete with fan motor, blades, and all accessories etc. as required.	each	25		

S.No	SOR-2007/ MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
Sub head (VI : Fire Alarm & PA System						
6.0	MR	Supply and fixing of following sizes of steel conduit alongwith the accessories in surface / recess including painting in case of surface conduit or cutting the wall and making good the same incase of recessed conduit including extra junction boxes as required				
i)		25mm dia	M.	600		
		-				
6.0	(DSR-2007)	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required.				
i)	1.17.2	2 x 1.5 sq.mm	M.	70		
iii)	1.17.4	4 x 1.5 sq.mm	M.	140		
6.0	(MR)	SITC of Addressable standalone 2 loop Fire Alarm Control,Maximum 636 addressable Points,2 Loop card (FLFSLC2)inbuild which has 318 addressable points(159 detectors and 159 devices),Requires 2nd loop card FLFSLC2 additionally for expansion,Easy mount chassis,Integral 80-character LCD display with backlighting,History file with 1,000-event capacity,Maintenance alert warns when smoke detector dust accumulation is excessive,Automatic device type-code verification,System alarm verification selection per detector point,UL Listed,FM Approved	No.	1		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
i)	(MR)	SITC of Addressable Low-Profile Photoelectric Smoke Detector; includes B501 base,Sleek,low-profile design,Removable cover and insect-resistant screen for simple field cleaning, Built-in tamper-resistant feature,UL Listed,FM Approved	No.	96		
ii)	(MR)	SITC of Low-profile intelligent multi-sensor detector which includes B501 base,Sleek, low-profile design,Dual bi-color LED design provides 360° viewing angle,Built-in tamper-resistant feature,UL Listed,FM Approved	No.	11		
iii)	(MR)	SITC of Addressable Heat Detector; includes B501 base,Factory preset at 135°F (57°C),Sleek, low-profile, stylish design,State-of-the-art thermistor technology for fast response,Built-in tamper resistant feature.UL Listed,FM Approved	No.	11		
iv)	(MR)	SITC of Wall Mount Horn/Strobe, 12/24V, Red, Multi-Candela 15,15/75, 30, 75,110,115 cd, Plain (No Lettering),UL Listed,FM Approved	No.	10		
v)	(MR)	SITC of Addressable Control Module -- One Supervised, Style Y/Z (Class A/B) Notification Appliance (Bell) Circuit.	No.	10		
vi)	(MR)	SITC of Addressable Manual call point (Break Glass type),Unique 'Plug & Play' installation concept,Re-settable operating element option,Semi-Flush or surface Mounting,Backward compatibility,Enhanced aesthetics,UL Listed,FM Approved	No.	10		
vii)	(MR)	SITC of Isolator Module,Powered by SLC loop directly, no external power required,Integral LED blinks to indicate normal condition. Illuminates steady when short circuit condition is detected,UL Listed,FM Approved	No.	8		
viii)	(MR)	supply, laying and commissioning of 2 core 1.5 sq mm FRLs twisted pair shielded copper conductor cable in existing conduit.	Mtr	1500		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(In Rs)
ix)	(MR)	Electronic Response indicator (. Intellegent)	No	54		
x)	(MR)	Speaker 6 w for PA system	No	16		
6.0		Supply, installation, testing and commissioning of Graphic Software with PC. & Printer etc. as required.	No	1		
6.1		Supply, installation, testing and commissioning of Public Address System consisting of 2 No. (1No. Working + 1 No. Standby)250 watts RMS power output amplifier, operating on 220V-240V AC, 50 Hz and 24 V DC (2 x 12V), 2 No. (1 No. working + 1 No. standby) Gooseneek Microphone with on/off switch mounted on stand, selector console consisting of 10 way selector with individual blockwise all call facility mounted in a cabinet, zonewise interconnection with FDA panel etc. as required.	No	1		
Earthing						
7.01		Earthing with GI /copper earth plate electrode electrode, i/c accessories and providing necessary enclosure with cover plate having locking arrangement and watering pipe etc.(with charcoal /coke and salt) as required.				
a	3.5+3.7	600mmx600mmx6mm thick GI plate earth electrode (for body earthing).	set	2		
b	3.6+3.7	600mmx600mmx3mm thick copper plate earthing electrode (for UPS,server & Equipments earthing)	set	4		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(Rs)
7.02 a)	3.2	Earthing with G.I.Earth pipe 4.5 M. long 40 mm.dia. including accessories and providing necessary enlosures with cover plate having locking arrangement and watering pipe etc(with charcoal/coke and salt) complete as required (for L.A.,etc.)	set	4		
7.02 b)	4.2	Providing & fixing of lightning conductor finial made of 25 mm. dia. 300 mm. long G.I. tube having single prong at top with 85 mm. dia. 6 mm. thick G.I. base plate including holes etc. complete as required	each	2		
7.03		Providing and fixing of GI / copper strips in 40mm GI pipe from earth electrode as required.				
a	3.13	25mmx5mm copper strip	mtr	25		
b	3.14	25mmx5mm GI strip	mtr	15		
7.04		Providing and fixing of GI/copper strips in surface or in recess for loop earthing etc. as required.				
a	3.17	25mmx5mm copper strip	mtr	65		
b	3.18	25mmx5mm GI strip	mtr	200		
c	4.1	20mmx3mm GI strip	mtr	600		
7.05		Supplying and laying of GI /copper earthing strips in ground at 0.5m below ground level as strips. including soldering etc. as required.				
a	3.12	25mmx 6mm GI strip	mtr	60		
b	4.14	32mmx6mm GI strip	mtr	60		
c	3.17	25mmx5mm copper strip	mtr	60		

S.No	SOR-2007/MR	Description	Unit	Qty	Rate(Rs)	Amount(Rs)
7.06	3.19	Providing and fixing 6 SWG dia. GI wire on surface or in recess for loop earthing along with the existing surface / recess cable as required.	mtr	200		
		<u>AVIATION OBSTRUCTION LIGHT</u>				
8.01	(MR)	Supplying, erection, testing and commissioning of Aviation lights with LED lamp with flasher 170mm suitable for 230V AC complete with fitting including photochromatic switch for automatic ON/OFF of Aviation lights complete as per Electronic make or approved equivalent.	No	1		
8.02	(MR)	Wiring for Aviation light with 3 core 2.5 sq.mm PVC insulated PVC sheathed copper conductor armoured cable from Ground Floor DB to Aviation light etc. as required.	mtr	100		
		Total of Electrical work			Rs.	

**HINDUSTAN PREFAB LIMITED
JANGPURA, NEW DELHI- 14**

SUMMARY

S. No.	Particulars	Amount (In Rs.)
1.	Civil Work (i/c sanitary ,plumbing , horticulture & STP	
2.	Internal Electrical works	
	Total (In Rs)	