



SRI VENKATESWARA COLLEGE

University of Delhi

NAAC Accredited "A" Grade (2016), DBT Star College Status (2016)

NIRF Rank # 14 (2020), NIRF #11(2021)

Benito Juarez Road

Dhaura Kuan, New Delhi -110021

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Webpage: www.svc.ac.in

Email: principal@svc.ac.in

CRITERIA 6

SUPPORTING DOCUMENT

6.2.1 The institutional Strategic/ perspective plan is effectively deployed

Successful Activity Implemented

**CONSTRUCTION OF NEW SCIENCE BLOCK
(Smt. Durgabai Deshmukh Block)**

DELHI DEVELOPMENT AUTHORITY
BUILDING SECTION

No. F 31 (4) 75 / Bldg. / Vol. IV 01 Dated: 7.3.2016

To,

The PRINCIPAL
SRI VENKATESWARA COLLEGE
DHAULA KUAN, NEW DELHI - 110021

~~Sanction No.~~
Dated: 07-03-16
Central Unit Building Section, D.D.A.

Sub: Sanction U/S 12 of the Delhi Development Act 1957

Dear Sir/Madam

With reference to your application dated 25-03-2010 for the grant of sanction to erect/re-erect/add to/alteration in the building to carry out the development specified in the said application relating to Plot No. SRI VENKATESWARA COLLEGE Pocket No. Block No. Sector No. Situated in/at DHAULA KUAN I have to state that the same has been sanctioned on 22.2.2016 by the DDA subject to the following conditions and corrections made on the plans:-

1. The plans are valid up to 21 st day of month February year 2021
2. The construction will be undertaken as per sanctioned plan only and no deviation from the bye-laws will be permitted without prior sanction. Any deviation done against the bye-laws is liable to be demolished and the supervising Architect, engaged on the job will run the risk of having his license cancelled.
3. Violation of building bye-laws will not be compounded.
4. It will be duty of the owner of the plot and the Architect preparing the plan to ensure that the sanctioned plans are as per prevalent building bye-laws. If any infringement of the bye-laws remain unnoticed the DDA reserves the right to amend the plans as and when the infringement comes to its notice and DDA will stand indemnified against any claim on this account.
5. A notice in writing shall be sent to DDA before commencement of the erection of the building as per bye-laws similar notice will be sent to DDA when the building has reached up to plinth level.

6. The party shall not occupy or permit it to occupy the building or use permit the building or part there of affected by any such work until occupancy certificate is issued by the Authority.
7. DDA will stand indemnified and kept harmless from all proceedings in courts and before other authorities of all expenses/losses/claims which the DDA may incur or become liable to pay as a result or in consequences of the sanction accorded by it to these building plans.
8. The door and window leaves shall be fixed in such a way that they shall not when open project on any street.
9. The party will convert the house into dwelling units of each floor as per the approved parameters of the project and shall use the premises only for residential purpose.
10. The building shall not be constructed within minimum mandatory distance as specified in Indian Electricity Rules and as per the requirement of Delhi Vidut Board from the voltage lines running on any side of the site.
11. The land left open on consequences of their enforcement of the set back rule shall form part of the public street.
12. The thickness of outer walls will be maintained at least 0.23 mt. (9").
13. In order to avoid any discrepancy in the dimensions of plot allotted. You are advised to get site re-demarkated from the office of Director (Planning) of the project before commencement of the work i.e Appendix 'B' as per BBL 83 Clause 7.2.1.
14. The basic levels should be got ascertained from the concerned at the site of the construction.
15. The owner will display boards of minimum size of 3 ft. X 4ft. indicating the following
 - i. Plot No. and location
 - ii. Name of lesse/owner
 - iii. Use of the property as per lease deed
 - iv. Date of sanction of Building Plan with No.
 - v. Sanction valid up to
 - vi. Use of different floors and areas sanctioned
 - vii. Name of the Architect & his address
 - viii. Name of the contractor and his address

16. The provision of the display board on the construction site is a mandatory requirement and non-compliance of the same will invite a penalty of Rs. 5000/-.
17. It will be ensured that the construction / demolition work shall be carried out in such a manner that no disturbance/nuisance is caused to residents of the neighbourhood.
18. It will be ensured by the owner and the Architect that during the construction the building plans sanctioned shall satisfy the water harvesting requirement as well as waste water recycling system for building with minimum anticipated discharge of 10,000 liters and above per day of waste water as stipulated under clause 22.1.1, 22.4.2 of BBL 1983 (as notified in Gazette of India dated 31.7.2001) and the information given there in (Applicable on plots of 100 sqm. and above.)
19. As per Notification No. 11011/9/98/-DDIV/(pt)/DDIB dated 21.11.01 of MOUD & PA, G.O.I Form 'C' (Building Bye-Laws 7.2.2) and Form 'D' (Building Bye-Laws 7.2.3) will not be applicable. However as per this Notification the owner through his Architect/Engineer/ Supervisor shall give notice to the DDA in the performa as per Appendix B-I on completion of work upto plinth level to enable DDA to ensure that work conform to the sanctioned building plans and Building Bye-Laws. Further completion-cum-occupancy certificate will be applied and obtained as per above Notification dated 21.11.2001.
20. The building shall be constructed strictly in accordance with the sanction plan as well as in accordance with the certificate submitted jointly by the owner/Architect/Structural Engineer for safety requirement as stipulated in Clause 18 of the Building Bye-Laws, 1983 and the structural Design including safety from any natural hazards duly incorporated in the design of the building as per the Government Of India Notification bearing No SO-248 (E) dated 21.03.2001.
21. The mulba during the construction will be removed on weekly basis. If the same is not done, in that case the local body shall remove the mulba and the cost shall be borne by the owner of the plot.
22. During construction ,it is mandatory on the part of the owner to properly screen the construction site of the main road by means of erecting a screen wall not less than 8 ft. in height from ground level which is to be painted to avoid unpleasant look from the road side. In addition to this a net or some other protective material shall be hoisted at the facades or the building to ensure that any falling material remains within the protected area.

23. Noise related activities will not be taken up for construction at night after 10.00 PM.
24. It shall be the duty of builder, owner or person seeking sanction would strictly adhere to and comply with the directions contained in the Order passed by Hon'ble NGT on 10.4.2015 in Original Application No. 21/2004 titled Vardhman Kaushik Vs UOI & Ors as well as the MoEF Guidelines, 2010 while raising construction. These directions in nutshell are as follows:
- (i) Every builder or owner shall put tarpaulin on scaffolding around the area of construction and the building. No person including builder, owner can be permitted to store any construction material particularly sand on any part of the street, roads in any colony.
 - (ii) The construction material of any kind that is stored in the site will be fully covered in all respects so that it does not disperse in the air in any form.
 - (iii) The construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.
 - (iv) The dust emissions from the construction site should be completely controlled and all precautions taken in that behalf.
 - (v) The vehicles carrying construction material and construction debris of any kind should be cleared before it is permitted to ply on the road after unloading of such material.
 - (vi) Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.
 - (vii) Every owner and or builder shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and construction debris relatable to dust emission.
 - (viii) It shall be the responsibility of every builder to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of this order.
 - (ix) All to take appropriate measures and to ensure that the terms and conditions of the earlier order and these orders should strictly comply with by fixing sprinklers, creations of green air barriers.
 - (x) Compulsory use of wetjet in grinding and stone cutting.
 - (xi) Wind breaking walls around construction site.

(xii) All efforts to be made to increase the 'tree cover' area by planting large number of trees of various species depending upon the quality content of soil and other natural attendant circumstances.

(xiii) All the builders who are building commercial, residential complexes which are covered under the EIA Notification of 2006 shall provide green belt around the building that they construct.

25. The sanction will be void ab initio if any material fact has been suppressed or misrepresented or if auxiliary conditions mentioned above are not complied.

NEW SCIENCE BLOCK
SRI VENKATESWARA COLLEGE
Plot No. Pkt. No.
Block No. DHAULA KUAN Sector No.
Delhi. 110021.

Encl: One set of sanctioned plan

Yours faithfully
S. K. SINGHAL 7/3/16
A.E. (Bldg) L & I
For Vice Chairman

Delhi Development Authority

T.T.DEVASTHANAMS, TIRUPATI
SUPERINTENDING ENGINEER-III, TIRUPATI

FORWARDING SLIP TO ACCOMPANY

Agt.No. 90 / S.E -III /2014-15

- | | |
|--|--|
| 1 Name of the Work | - Construction of New science block at S.V.College, New Delhi |
| Estimate amount | - Rs.630.00 lakh |
| Sanctioned in Original/Revised Estimate | - CER.No: 74/ CE/ 2013-14 |
| 2 Name of the Contractor | - M/s Chaudary Builders, Khasra No:299, Village Gokul Pur, Wazirabad Road, Shahdara, Delhi-110094. |
| 3 Original or Supplemental | - Original |
| 4 If supplemental Original Agreement No. | - --- |
| 5 Approximate value of work to be done under this Agreement | - Rs. 4,49,65,585.98 |
| 6 If this is supplemental approximate value of work to be done under Original Agreement | - --- |
| 7 If tenders have been called for is the lowest tender accepted.If not are reasons recorded | - The tenders were invited vide NIT No187/SE-III/TTD/TPT/2013-14.The tender of M/s Chaudary Builders, Khasra No:299, Village Gokul Pur, Wazirabad Road, Shahdara, Delhi-110094 was approved by the Building committee, SV College, New Delhi on 23.07.2014 in file Roc.No.53/ATO/EE-X/ND/2013. |
| 8 Has the contractor signed the sub-divisional or Divisional copy of MDSS and its addenda volume brought upto date | - Yes |
| 9 Is date furnished for at items of work noted in the schedule | - Yes |
| 10 Are the rates in the agreement within the estimated rates of Schedule of rates, whichever is less and the Lumpsum provisions sufficient or likely to be exceeded? | - The rates in the agreement are at equal to the estimate rates based on DSR 2013 and TTD SSR 2012-13 . The tender premium is at (-) 8.91% less. The L.S. provisions are likely to be sufficient. |

Checked by me

@
30/12/14
A.E.E.

3/1/15
P.A. to S.E - III

3/1/15
Superintending Engineer-III

Copy to the Contractor
to the principal,SV.College, New Delhi.
to the Exe.Engineer -X, TTD, New Delhi.
to the Dy.E.E , (ND), T.T.D.New Delhi.
to the Exe.Engineer (QC),T.T.D.,Tirupati.
to A.E./A.E.E.,T.T.D.,Concerned through Dy.E.E,(ND), TTD.
to File

DESPATCHED
DATED: 18/2/15



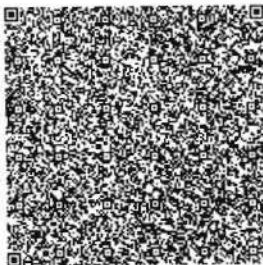
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No. : IN-DL29348796577595M
Certificate Issued Date : 05-Nov-2014 01:03 PM
Account Reference : IMPACC (IV)/ dl742803/ DELHI/ DL-DLH
Unique Doc. Reference : SUBIN-DL74280355580743622793M
Purchased by : CHAUDHARY BUILDERS
Description of Document : Article 5 General Agreement
Property Description : Not Applicable
Consideration Price (Rs.) : 0
 (Zero)
First Party : CHAUDHARY BUILDERS
Second Party : Not Applicable
Stamp Duty Paid By : CHAUDHARY BUILDERS
Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write or type below this line.

LS FORM

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made this ^{5th}day of
 February, 2014 between the Board of Trustees of the TTDevasthanams
 represented by the Principal, S.V.college, New Delhi Constituted under
 Andhra Pradesh Act.30.Of 1987 (here in after called the TTDevasthanams) which
 expression shall where the context so admits include its successors in office and
 assigns of the one part and " M/s Chaudary Builders, Khasra No:299, Village
 Gokul Pur, Wazirabad Road, Shahdara, Delhi-110094." here in after called the
 Contractor which expression shall where the context so admits include his heirs,
 executors, administrators and legal representatives) of the other part.

M/s CHAUDHARY BUILDERS

Proprietor

Whereas the T.T.Devasthanams are desirous of " Construction of New
 science block at S.V.College, New Delhi." and have caused an estimate of
 probable quantities contained in Schedule A ,drawings and specifications
 describing the work to be done to be prepared.

SUPERINTENDING ENGINEER-III,

T. T. DEVASTHANAMS,
 TIRUPATI.

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shulestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of obtaining the authenticity is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

L.S.FORM
ARTICLES OF AGREEMENT

AND WHEREAS The contractor has agreed to the retention by the T.T.Devasthanams of the Earnest money deposit of **Rs.4,94,000/- (Rupees Four lakh ninety four thousand only)** vide **D.D.No.142522 dt: 21.03.2014** and revalidated on **10.11.2014** of **Bank of Maharashtra, New Delhi** at the time of tender and the further **EMD of Rs.7,40,100/- (Rupees Seven Lakh forty thousand one hundred only)** **B.G.No:BG/BOM/1160/CB/26/2014-15 dt. 13.11.2014** of **Bank of Maharashtra, New Delhi** at the time of agreement paid by him when he submitted his tender as security for the due fulfillment of the contractor to the satisfaction of the Engineer Grade -I, T.T.Devasthanams Division(hereinafter referred to as " the Executive Engineer")

AND WHEREAS the contractor has also signed the copy of the Andhra Pradesh Detailed Standard Specifications and addenda volume thereto maintained in the Division office acknowledgement of being bound by all the conditions of all the clauses of the Standard Preliminary Specifications and all the standard specifications for all items of works described by a Standard Specification Number in Schedule A and also bound by Indian Standard Specifications.

AND WHEREAS the Contractor has agreed to execute upon and subject to the conditions set forth in the Preliminary Specification of the Andhra Pradesh Detailed Standard Specifications and such other conditions as are contained in all the specifications forming part of this contract(hereinafter referred to as "the said conditions") the work shown upon the drawings and described in the said specifications and set forth in Schedule A as the "Probable quantities" and comply with the rate of progress noted at the end of this Articles of Agreement for a sum of **Rs.4,49,65,585.98 (Rupees Four crore forty nine Lakh sixty five Thousand five Hundred and eighty five and Paise ninety eight only)**

or such other sum as may be arrived at under the clause of the Standard Preliminary Specifications relating to "Payment of lump-sum basis or by final measurements at unit prices."

-
- * Contractor's name
 - + Contractor's legal adresws for registered letters and notices
 - ** Name of Work and Locality
 - *** to be entered in words and figures

M/s CHAUDHARY BUILDERS

Proprietor

M/s CHAUDHARY BUILDERS

Bhavi
Proprietor

5/2/15
SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS,
TIRUPATI.

:: 2 ::

Now it is hereby agreed as follows :-

1) In Consideration of the payment of the said sum of **Rs.4,49,65,585.98 (Rupees Four crore forty nine Lakh sixty five Thousand five Hundred and eighty five and Paise ninety eight only)** or such other sum as may be arrived at under the clause of the Standard Preliminary specification relating to "Payment on lump-sum basis or by final measurement unit prices,"the contractor will upon subject to the said conditions,execute and complete the works shown upon the said drawings and described in the said specifications and to the extent of the probable quantities shown in Schedule A with such variations by way of alterations of,addition to,or deductions from ,the said works and method of payment therefor as are provided for in the said conditions.

2) The term Executive Engineer in the said conditions shall mean Executive Engineer in Engineering Department of T.T.Devasthanams incharge of the work who shall be competent to exercise all the powers and Privileges reserved herein,in favour of the Board of Trustees,T.T.Devasthanams. ** SUPERINTENDING ENGINEER-III.

with the previous sanction of or subject to the ratification by the ***SUPERINTENDING ENGINEER-III.

in cases where such sanction or ratification may be necessary.

3) The arbitrator for fulfilling the duties set forth in the arbitration clause of the Standard Preliminary Specification shall be the Superintending Engineer of Cuddapah circle, Cuddapah.

i) Engineering Chief P.R. & R.D.,Hyderabad,A.P.

ii) Civil Court of Competent Jurisdiction

4) Time shall be considered as of the essence of the agreement and the contractor hereby agreed to commence the work as soon as this agreement is accepted by competent authority as defined by the Andhra pradesh Act.30of 1987 and rules made ther under and the site (or prewmisses) is handed over to him as provided in the said conditions and agrees to complete the work within **Eighteen(18) months** from the date of such handing over of the site (or premise) and to show the progress as defined in the tabular statement."Rate of progress " below,subject nevrtheless to the provisions for extension of time contained in clause 59 of the Standard Preliminary Specification.

5)The said conditions shall be read and construed as forming part of this Agreement and the parties hereto will respectively abide by and submit themselves to the conditions and stipulations and perform the agreements on their parts,respectively.

6) Upon the terms and condition of this agreement being fulfilled and performed to the satisfaction of the Executive Engineer, the security deposited by the contractor as hrcerein before recited or such portion thereof as he may be entitled to under the said conditions shall be returned to the contractor as provided in clause 68 of the preliminary specifications to A.P.D.S.S.

M/s CHAUDHARY BUILDERS

CONTRACTOR *B. S. Chaudhary*
Proprietor

K. S. Ramesh
5/2/15
SUPERINTENDING ENGINEER-III,
SUPERINTENDING ENGINEER -III
TIRUPATI

* TO BE ENTERED IN WORDS AND FIGURES

** Rest of the sentence to be struck off,if the Executve Engineer can himself enter into contract without reference to any higher authority.

*** Designation of the Officer who is competent to approve the contract under the AndhraPradesh

Act. 20 of 1979

M/s CHAUDHARY BUILDERS

Proprietor

.3.

In witness where-of the Contractor/Firm "M/s Chaudary Builders,Khasra No:299,Village Gokul Pur,Wazirabad Road,Shahdara,Delhi-110094."has hereunto set his/Their hand and** Sri G.Ramachandra Reddy, Superintending Engineer-III, T.T.D., Tirupati on behalf of Principal, S.V.College, New Delhi. Constituted under Andhra Pradesh Act.30 of 1987 has hereunto set his hand the day and year first above written.

Signed by Contractor:-

M/s CHAUDHARY BUILDERS

Contractor *[Signature]*
Proprietor

Address **M/s Chaudary Builders,**
Khasra No:299,
Village Gokul Pur,
Wazirabad Road,
Shahdara,
Delhi-110094

In the presence of Witness:-

M/s CHAUDHARY BUILDERS
Proprietor

Signed by on behalf of T.T. Devasthanams:-

Designation :-

[Signature] 5/2/18
SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS
SUPERINTENDING ENGINEER - III
T.T.Devasthanams
TIRUPATI

In the presence of Witness:-

*Contractor' Name

**Name and Designation

Rate of Progress

The following rate of progress and proportionate value of work done from time to time, as will be indicated by the Executive Engineer's certificates of the value of work done will be required.

Date of commencement of this programme will be the date on which the site (or premises) is handed over to the contractor.

Period after date of Commencement (1)	Percentage of work completed (based on contract lump-sum amount).
Up to the end of 6 th month	35%
Up to the end of 12 th month	75% 70%
Up to the end of 18 th month	100%

M/s CHAUDHARY BUILDERS
BCW
Proprietor

5/2/15
SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS,
TIRUPATI

Note :-The period is to be entered in Column (1) for the purpose of defining the rate of progress may be fixed by the Executive Engineer to suit each case.

TENDER

Date:

To
The Principal,
S.V.College,
New Delhi.

Sir,

I / We do hereby tender and if this tender be accepted, under take to execute the following work
viz.....

..... as shown in the drawings and described
in the specifications deposited in the office of the Executive Engineer / Superintending Engineer,
with such variations by way of
alterations or additions to, and commissions from the said works and method of payment as provided for
in the "conditions of the contract" for the sum of Rupees
.....
or such other sum as may be arrived under the clause of the
standard preliminary specifications relating to "Payment on lump-sum basis or by final measurement at
unit rates"

I/WE have also quoted percentage excess or less on E.C.V., in Schedule 'A' Part-I, annexed (in
words and figures) for which I/We agree to execute the work when the lump sum payment under the
terms of the agreement is varied by payment on measurement quantities.

I/WE have quoted Percentage excess or less on E.C.V., in Schedule 'A' Part - I both in words &
figures. In case of any discrepancy between the Percentage excess or less on E.C.V., in words and
figures, the rates quoted words only shall prevail.

I/WE agreed to keep the offer in this tender valid a period of Three month(s) mentioned in the
tender notice and not to modify the whole or any part of it for any reason within above period. If the
tender is withdrawn by me/us for any reasons whatsoever, the earnest money paid by me/us will be
forfeited to Government

I/WE hereby distinctly and expressly, declare and acknowledge that, before the submission of
my/our tender I/We have carefully followed the instructions in the tender notice and have read the
A.P.S.S. and the preliminary specifications therein and the A.P.S.S. addenda volume and that I/We have
made such examination of the contract documents and the plans, specifications and quantities and of the
location where the said work is to be done, and such investigation of the work required to be done, and in
regard to the material required to be furnished as to enable me/us to thoroughly understand the intention
of same and the requirements, covenants, agreements, stipulations and restrictions contained in the
contract, and in the said plans and specifications and distinctly agree that I/We will not hereafter make
any claim or demand upon the Government based upon or arising out of any alleged misunderstanding or
misconception /or mistake on my/or our part of the said requirement, covenants, agreements, stipulations,
restrictions and conditions.

I/WE enclosed to my/our application for tender schedule a crossed demand draft
(No.....dated.....) for
Rs.....as earnest money not to bear interest.

I/WE shall not assign the contractor or sublet any portion of the same. In case if it becomes
necessary such subletting with the permission of the Executive Engineer shall be limited to (1) Labour
contract, (2) Material contract, (3) Transport contract and (4) Engaging specialists for special item of work
enjoined in A.P.S.S.

IF MY/OUR tender is not accepted the sum shall be returned to me/us on application when
intimation is sent to me/us of rejection or at the expiration of three months from last date of receipt of this
tender, whichever is earlier. If my/our tender is accepted the earnest money shall be retained by the
Government as security for the due fulfillment of this contract. If upon written intimation to me/us by the
Superintending / Executive Engineer's Office, I/We fail to attend the said office on the date herein fixed or
if upon intimation being given to me/us by the Superintending /Executive Engineer or acceptance of
my/our tender, and if I/We fail to make the additional security deposit or to enter into the required
agreement as defined in condition-3 of the tender notice, then I/We agree the forfeiture of the earnest
money. Any notice required to be served on me/us here under shall be sufficiently served on me/us if
delivered to me/us hereunder shall be sufficiently served on me/us if delivered to me/us personally or
forwarded to me/us by post to (registered or ordinary) or left at my/our address given herein. Such notice
shall if sent by post be deemed to have been served on me/us at the time when in due course of post it
would be delivered at the address to which it is sent.

M/s CHAUDHARY BUILDERS

Bhau
Proprietor

1

M/s CHAUDHARY BUILDERS

Superintending
SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI.

I/WE fully understand that the written agreement to be entered into between me/us and Government shall be the foundation of the rights of the both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by me/us and then by the proper officer authorised to enter into contract on behalf of Government.

I AM/WE ARE professionally qualified and my/our qualifications are given below:

Name	Qualified

I/WE will employ the following technical staff for supervising the work and will see that one of them is always at site during working hours, personally checking all items of works and pay extra attention to such works as required special attention (eg) Reinforced concrete work.

Name of members of technical staff proposed to be employed	Qualification.

I / WE declare that I/WE agree to recover the salaries of the technical staff actually engaged on the work by the department, from the work bills, if I/We fail to employ technical staff as per the tender condition.

TENDERERS / CONTRACTOR'S CERTIFICATE.

- (1) I/WE hereby declare that I/We have perused in detail and examined closely the Andhra Pradesh Standard Specifications, all clauses of the preliminary specifications with all amendments and have either examined all the standards specifications or will examine all the standard specifications for items for which I/We tender, before I/We submit such tender and agree to be bound and comply with all such specifications for this agreement which I/We execute in the Irrigation & Command Area Development Department.
- (2) I/WE certify that I/We have inspected the site of the work before quoting my Percentage excess or less on ECV, I /We have satisfied about the quality, availability and transport facilities for stones sand and other materials.
- (3) I/WE am/are prepared to furnish detailed data in support of all my quoted rates, if and when called upon to do so without any reservations.
- (4) I/WE hereby declare that I/We will pay an additional security deposit in terms of conditions 12.3 of tender notice.
- (5) I/WE hereby declare that I am/we are accepting to reject my tender in terms of condition 12.4 of tender notice.
- (6) I/WE hereby declare that I/We will not claim any price escalation.
- (7) I/WE hereby declare that I am/We are accepting for the defect liability period as 24 months instead of 6 months under clause 28 of APSS.
- (8)
 - a) I/WE declare that I/WE will procure the required construction materials including earth and use for the work after approval of the Engineer-in-Charge. The responsibility for arranging and obtaining the land for borrowing or exploitation in any other way shall rest with me/us for the materials for construction; I/WE shall ensure smooth and un-interrupted supply of materials.
 - b) I/WE declare that the responsibility for arranging and obtaining the land for disposal of spoil/soil not useful for construction purposes shall rest with me/us.
 - c) I/WE declare that I/WE shall not claim any compensation or any payment for the land so arranged for disposal of soil and the land for borrow area. My/our quoted percentage excess or less ECV., are inclusive of the land so arranged and I/We will hand over the land so arranged for disposal of soil to; the department after completion of work.
 - d) I/WE declare that I/WE will not claim any extra amount towards any material used for the work other than the quoted works for respective schedule 'A' items.

M/s CHAUDHARY BUILDERS

B. S. Chaudhary
Proprietor

2

[Signature]
SUPERINTENDING ENGINEER
M/s CHAUDHARY BUILDERS
T. I. DEVASTHANAMS,
TIRUPATI

- (9) I/WE declare that I/WE will execute the work as per the mile stone programme, and if I/WE fail to complete the work as per the mile stone programme I abide by the condition to recover liquidated damages as per the tender conditions.
- (10) I / WE declare that I/WE will abide for settlement of disputes as per the tender conditions.

DECLARATION OF THE TENDERER.

- 1) I/WE have not been black listed in any department in Andhra Pradesh due to any reasons.
- 2) I/WE have not been demoted to the next lower category for not filing the tenders after buying the tender schedules in a whole year and my/our registration has not been cancelled for a similar default in two consecutive years.
- 3) I/WE agree to disqualify me/us for any wrong declaration in respect of the above and to summarily reject my/our tender.

Address of the Tenderer :

Phone No.:

Fax No.:

CONTRACTOR.

CONDITIONS OF CONTRACT

A. GENERAL

1. Interpretation:

- 1.1 In interpreting these Conditions of Contract, singular also means plural, male also means female, and vice-versa. Headings have no significance. Works have their normal meaning under the language of the contract unless specifically defined. The Engineers-in-charge will provide instructions clarifying queries about the conditions of Contract.
- 1.2 The documents forming the Contract shall be interpreted in the following order of priority:
- 1) Agreement
 - 2) Letter of Acceptance, notice to proceed with the works
 - 3) Contractor's Tender (Technical bid)
 - 4) Conditions of contract
 - 5) Specifications
 - 6) Drawings
 - 7) Bill of quantities (Price-bid)
 - 8) Any other document listed as forming part of the Contract.

2. Engineer-in-Charge's Decisions:

- 2.1 Except where otherwise specifically stated, the Engineer-in-charge will decide the contractual matters between the Department and the Contractor in the role representing the Department.

3. Delegation:

- 3.1 The Engineer-in-charge may delegate any of his duties and responsibilities to other officers and may Cancel any delegation by an official order issued.

4. Communications:

- 4.1 Communications between parties, which are referred to in the conditions, are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act)

5. Sub-contracting:

- 5.1 If the prime contractor desires to sub-let a part of the work, he should submit the same at the time of filing tenders itself or during execution, giving the name of the proposed Sub-contractor, along with details of his qualification and experience. The Tender Accepting Authority should verify the experience of the Sub-contractor and if the Sub-contractor satisfies the qualification criteria in proportion to the value of work proposed to be sub-let, he may permit the same. The total value of works to be awarded on sub-letting shall not exceed 50% of contract value. The extent of subletting shall be added to the experience of the sub-contractor and to that extent deducted from that of the main contractor.

6. Other Contractors:

- 6.1 The Contractor shall cooperate and share the Site with other contractors, Public authorities, utilities, and the Department. The Contractor shall also provide facilities and services for them as directed by the Engineer-in-charge.

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7. Personnel:

- 7.1 The Contractor shall employ the required Key Personnel named in the Schedule of Key Personnel to carry out the functions stated in the Schedule or other personnel approved by the Engineer-in-charge. The Engineer-in-charge will approve any proposed replacement of Key Personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.
- 7.2 Failure to employ the following minimum required technical personnel by the contractor the following amounts will be recovered from the contractor over and above the provision made in part two of schedule-A from the contractors bills.

S.No	Contract value of works to be executed.	Technical staff to be employed	For non-employment of the technical staff, rates of recovery per month
1	More than Rs.15.00 Lakhs.	One Graduate Engineer (Civil) and one Diploma Holder (Civil)	Rs. 27,000/-

- 7.3 The technical personnel should be on full time and available at site whenever required by Engineer in Charge to take instructions.
- 7.4 The names of the technical personnel to be employed by the contractor should be furnished in the statement enclosed separately.
- 7.5 In case the contractor is already having more than one work on hand and has undertaken more than one work at the same time, he should employ separate technical personnel on each work.
- 7.6 If the contractor fails to employ technical personnel the work will be suspended or department will engage a technical personnel and recover the cost thereof from the contractor.
- 7.7 If the Engineer-in-charge asks the Contractor to remove a person who is a member of Contractor's staff or his work force stating the reasons the Contractor shall ensure that the person leaves the site forthwith and has no further connection with the work in the contract.

8. Contractor's Risks:

- 8.1 All risks of loss of or damage to physical property and of personnel injury and death, which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.

9. Insurance:

- 9.1 The Contractor shall provide, in the joint names of the Department and the contractor, insurance cover from the Start Date to the end of the Defects Liability Period i.e., 24 months after completion for the following events which are due to the Contractor's risks.
- loss of or damage to the Works, Plant and Materials;
 - loss of or damage to the Equipment;
 - loss of or damage of property in connection with the Contract; and
 - Personal injury or death of persons employed for construction.
- 9.2 Policies and certificates of insurance shall be delivered by the Contractor to the Engineer-in-charge at the time of concluding Agreement. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred.
- The contractor shall furnish insurance policy in force in accordance with proposal furnished in the Tender and approved by the Department for concluding the agreement.
 - The contractor shall also pay regularly the subsequent insurance premia and produce necessary receipt to the Engineer-in-Charge, well in advance.
 - In case of failure to act in the above said manner the department will pay the premium and the same will be recovered from the Contractors payments.
- 9.3 Alterations to the terms of insurance shall not be made without the approval of the Engineer-in-Charge.

10. Site Inspections:

- 10.1 The contractor should inspect the site and also proposed quarries of choice for materials source of water and quote his percentage including quarrying, conveyance and all other charges etc.

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10.2 The responsibility for arranging the land for borrow area rests with the Contractor and no separate payment will be made for procurement or otherwise. The contractor's quoted percentage will be inclusive of land cost.

11. Contractor to Construct the Works:

11.1 The Contractor shall construct and Commission the Work in accordance with the specifications and Drawings.

12. Diversion of streams / Vagus / Drains.

12.1 The contractor shall at all times carry out construction of cross drainage works in a manner creating least interference to the natural flow of water while consistent with the satisfactory execution of work. A

temporary diversion shall be formed by the contractor at his cost where necessary. No extra payment shall be made for this work.

12.2 No separate payment for bailing out sub-soils, water drainage or locked up rain water for diversion, shoring, foundations, bailing of pumping water either from excavation of soils from foundations or such other incidental will be paid. The percentage to be quoted by the contractor are for the finished item of work in situ and including all the incidental charges. The borrow pits are also to be de-watered by the contractor himself at his expense, if that should be found necessary.

12.3 The work of diversion arrangements should be carefully planned and prepared by the contractor and forwarded to the Executive Engineer technically substantiating the proposals and approval of the Executive Engineer obtained for execution.

12.4 The contractor has to arrange for bailing out water, protection to the work in progress and the portion of works already completed and safety measures for men and materials and all necessary arrangements to complete the work.

12.5 All the arrangements so required should be carried out and maintained at the cost of the contractor and no separate or additional payments is admissible.

12.6 Coffor Dams.

Necessary cofferdams and ring bunds have to be constructed at the cost of contractor and same are to be removed after the completion of the work. The contractor has to quote his percentage keeping the above in view.

13. Temporary Diversions (Works on Highways)

13.1 The contractor shall at all times carryout work on the highway in a manner creating least interference to the flow of traffic while consistent with the satisfactory execution of the same. For all works involving improvements to the existing highway, the contractor shall in accordance with the directions of the Engineer-in-charge provide and maintain during the execution of the work a passage for traffic, either along a part of the existing carriage way under improvement or along a temporary diversion constructed close to the highway.

13.2 If in the opinion of the Engineer-in-Charge, it is not possible to pass the traffic on part width of the carriage-way for any reason, a temporary diversion close to the highway shall be constructed as directed. It shall be paved with the materials such as hard morum, gravel and stone, metal to the specified thickness as directed by the Engineer-in-Charge. In all cases, the alignment, gradients and surface type of the diversion including its junctions, shall be approved by the Engineer-in-charge before the highway is closed to traffic.

13.3 The contractor shall take all necessary measures for the safety of traffic during construction and provide erect and maintain such barricades, including signs, markings, flags lights and information and protection of traffic approaching or passing through the section of the highway under improvement. Before taking up any construction, an agreed phased programme for the diversion of traffic on the highway shall be drawn up in consultation with the Engineer-in-charge.

13.4 The barricades erected on either side of the carriage way portion of the carriage way closed to traffic, shall be of strong design to resist violation and painted with alternative black and white stripe. Red lanterns or warnings lights of similar type shall be mounted on the barricades at night and kept lit throughout from sunset to sunrise.

14. Ramps:

Ramps required during execution may be formed wherever necessary and same are to be removed after completion of the work. No separate payment will be made for this purpose.

15. Monsoon Damages:

Damages due to rain or flood either in cutting or in banks shall have to be made good by the contractor till the work is handed over to the Department. The responsibility of de-silting and making good the damages due to rain or flood rests with the contractor. No extra payment is payable for such operations and the contractor shall therefore, have to take all necessary precautions to protect the work done during the construction period.

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16. The works to be Completed by the Intended Completion Date:

- 16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the programme submitted by the Contractor, as updated with the approval of the Engineer-in-Charge, and complete the work by the Intended Completion Date.

17. Safety:

- 17.1 The Contractor shall be responsible for the safety of all activities on the Site.

18. Discoveries:

- 18.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Government / T.T. Devasthanams. The Contractor is to notify the Engineer-in-charge of such discoveries and carry out the Engineer-in-Charge's instructions for dealing with them.

19. Possession of the Site.

- 19.1 The Department shall give possession of the site to the Contractor. If possession of a part site is given, the Department will ensure that the part site so handed over is amenable to carryout the work at site by the Contractor.

20. Access to the Site:

- 20.1 The Contractor shall provide the Engineer-in-Charge and any person authorised by the Engineer-in-Charge, access to the site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

21. Instructions:

- 21.1 The Contractor shall carry out all instructions of the Engineer-in-charge and comply with all the applicable local laws where the Site is located.

22. Settlement of disputes:

- 22.1 If any dispute of difference of any kind whatsoever arises between the department and the Contractor in connection with, or arising out of the Contract, whether during the progress of the works or after their completion and whether before or after the termination, abandonment or breach of the Contract, it shall in the first place, be referred to and settled by the Engineer-in-charge who shall, within a period of thirty days after being requested by the Contractor to do so, give written notice of his decision to the Contractor. Upon receipt of the written notice of the decision of the Engineer-in-Charge the Contractor shall promptly proceed without delay to comply with such notice of decision.

- 22.2 If the Engineer-in-Charge fails to give notice of his decision in writing within a period of thirty days after being requested or if the Contractor is dissatisfied with the notice of the decision of the Engineer-in-Charge, the Contractor may within thirty days after receiving the notice of decision appeal to the Department who shall offer an opportunity to the contractor to be heard and to offer evidence in support of his appeal, the Department shall give notice of his decision within a period of thirty days after the Contractor has given the said evidence in support of his appeal, subject to arbitration, as hereinafter provided. Such decision of the Department in respect of every matter so referred shall be final and binding upon the Contractor and shall forthwith be given effect to by the Contractor, who shall proceed with the execution of the works with all due diligence whether he requires arbitration as hereinafter provided, or not. If the Department has given written notice of his decision to the Contractor and no claim to arbitration, has been communicated to him by the Contractor within a period of thirty days from receipt of such notice the said decision shall remain final and binding upon the Contractor. If the Department fail to give notice of his decision, as aforesaid within a period of thirty days after being requested as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the contractor within thirty days after the expiration of the first named period of thirty days as the case may be, require that the matter or matters in dispute be referred to arbitration as detailed below:-

SETTLEMENT OF CLAIMS:**Settlement of claims for Rs.50,000/- and below by Arbitration.**

All disputes or difference arising of or relating to the Contract shall be referred to the adjudication as follows:

- a) Claims up to a value of Rupees 10,000/-.
- Superintending Engineer, [or another circle in the same department].
- b) Claims above Rs.10,000/- and up to Rupees 50,000/-.
- Another Chief Engineer, [from the Government Department of A.P.]

The arbitration shall be conducted in accordance with the provisions of Indian Arbitration and Conciliation Act 1996 or any statutory modification thereof.

The arbitrator shall state his reasons in passing the award.

Claims above Rs.50,000/-.

All claims of above Rs.50,000/- are to be settled by a Civil Court of competent jurisdiction by way of Civil suit and not by arbitration.

A reference for adjudication under this clauses shall be made by the contractor within six months from the date of intimating the contractor of the preparation of final bill or his having accepted payment which ever is earlier.

22.3 JURISDICTION:

For the purpose of this agreement all the transactions shall be deemed to have taken place within the state of ANDHRA PRADESH and the courts in ANDHRA PRADESH shall have jurisdiction over the matters arising under or out of this agreement.

B. TIME FOR COMPLETION

23. Program:

23.1 The total period of completion is 18 months from the date of entering with agreement to proceed including rainy season. The work should be programmed such as to achieve the mile-stones as in "Rate of progress statement" enclosed, in clause 24.4

23.2 The attention of the tenderer is directed to the contract requirement at the time of beginning of the work, the rate of progress and the dates for the whole work and its several parts as per milestones. The following rate of progress and proportionate value of work done from time to time as will be indicated by the Executive Engineer's Certificate for the value of work done and completion of mile-stones will be required. Date of commencement of their programme will be the date for concluding agreement.

23.3 After signing the agreement, the contractor shall forthwith begin the work, shall regularly and continuously proceed with them.

23.4 Rate of progress:

i) Work programme of achieving the milestones.

Sl.No.	Period after date of handing over of site.	% of work to be completed (Based on contract lump-sum amount)
1	up to the end of 6 th months	35%
2	up to the end of 12 th months	70%
3	up to the end of 18 th months	100%

ii) Site Schedule of programme of handing over site to the contractor. (in case of piece mail handing over of site)

23.5 The contractor shall commence the works on site within the period specified under condition 25.1 to 25.4 above after the receipt by him of a written order to this effect from the Executive Engineer / Superintending Engineer and shall proceed with the same with due expedition and without delay, except as may be expressly sanctioned or ordered by the Executive Engineer / Superintending Engineer, or be wholly beyond the contractor's control.

23.6 Save in so far as the contractor may prescribe, the extent of portions of the site of which the contractor is to be given possession from time to time and the order in which such portions shall be made available to him and, Subject to any requirement in the contract as to the order in which the works shall be executed, the Executive Engineer / Superintending Engineer will, with the Executive Engineer's written order to commence the works, give to the contractor possession of so much of the site as may be required to enable the contractor to commence proceed with the execution of the works in accordance with the programme if any, and otherwise in accordance with such reasonable proposals of the contractor as he shall by written notice to the Executive Engineer / Superintending Engineer, make and will from time to time as the works proceed, give to the contractor possession of such further portions of the site as may be required to enable the contractor to proceed with the execution of the works with due dispatch in accordance with the said programme or proposals as the case maybe ; if the contractor suffers delay or incurs cost from failure on the part of the Executive Engineer / Superintending Engineer to give possession in accordance with the terms of this clause, the Competent authority shall grant an extension of time for the completion of works.

23.7 The contractor shall bear all costs and charges for special or temporary way leases required by him in connection with access to the site. The contractor shall also provide at his own cost any additional accommodation outside the site required by him for the purposes of the work.

23.8 Subject to any requirement in the contract as to completion of any section of the works before completion of the whole of the works shall be completed in accordance with provisions of clauses in the Schedule within the time stated in the contract calculated from the last day of the period named in the statement to the tender as that within which the works are to be commenced or such extended time as may be allowed.

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23.9 Delays and extension of time:

No claim for compensation on account of delays or hindrances to the work from any cause whatever shall lie, except as hereafter defined. Reasonable extension of time will be allowed by the Executive Engineer or by the officers competent to sanction the extension, for unavoidable delays, such as may result from causes, which in the opinion of the Executive Engineer, are undoubtedly beyond the control of the contractor. The Executive Engineer shall assess the period of delay or hindrance caused by any written instructions issued by him, at twenty five per cent in excess of the actual working period so lost.

In the event of the Executive Engineer failing to issue necessary instructions and thereby causing delay and hindrance to the contractor, the latter shall have the right to claim an assessment of such delay by the Superintending Engineer of the Circle whose decision will be final and binding. The contractor shall lodge in writing with the Executive Engineer a statement of claim for any delay or hindrance referred to above, within fourteen days from its commencement, otherwise no extension of time will be allowed.

Whenever authorized alterations or additions made during the progress of the work are of such a nature in the opinion of the Executive Engineer as to justify an extension of time in consequence thereof, such extension will be granted in writing by the Executive Engineer or other competent authority when ordering such alterations or additions.

24. Construction Programme:

24.1 The Contractor shall furnish within one month of the order of the work a programme showing the sequence in which he proposed to carry out the work, monthly progress expected to be achieved, also indicating date of procurement of materials plant and machinery. The schedule should be such that it is practicable to achieve completion of the whole work within the time limit fixed and in keeping with the Mile stone programme specified and shall obtain the approval of the Engineer-in-charge. Further rate of the progress as in the program shall be kept up to date. In case it is subsequently found necessary to alter this program, the contractor shall submit sufficiently in advance the revised program incorporating necessary modifications and get the same approved by the Engineer-in-charge. No revised program shall be operative with out approval of Engineer-in-charge.

24.2 The Superintending Engineer shall have all times the right, without any way violating this contract, or forming grounds for any claim, to alter the order of progress of the works or any part thereof and the contractor shall after receiving such directions proceed in the order directed. The contractor shall also report the progress to the Superintending Engineer within 7 days of the Executive Engineer's direction to alter the order of progress of works.

24.3 The Contractor shall give written notice to the Engineer-in-Charge whenever planning or progress of the works is likely to be delayed or disrupted unless any further drawings or order including a direction, instruction or approval is issued by the Engineer-in-Charge within a reasonable time. The notice shall include details of the drawing or order required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

25. Speed of Work:

25.1 The Contractor shall at all times maintain the progress of work to conform to the latest operative progress schedule approved by the Engineer-in-Charge. The contractor should furnish progress report indicating the programme and progress once in a month. The Engineer-in-Charge may at any time in writing direct the contractor to slow down any part or whole of the work for any reason (which shall not be questioned) whatsoever, and the contractor shall comply with such orders of the Engineer-in-Charge. The compliance of such orders shall not entitle the contractor to any claim of compensation. Such orders of the Engineer-in-Charge for slowing down the work will however be duly taken into account while granting extension of time if asked by the contractor for which no extra payment will be entertained.

25.2 Delays in Commencement or progress or neglect of work and forfeiture of earnest money, Security deposit and withheld amounts:

If, at any time, the Engineer-in-Charge shall be of the opinion that the Contractor is delaying Commencement of the work or violating any of the provisions of the Contractor is neglecting or delaying the progress of the work as defined by the tabular statement. "Rate of progress" in the Articles of Agreement", he shall so advise the Contractors in writing and at the same time demand compliance in accordance with conditions of Tender notice. If the Contractor neglects to comply with such demand within seven days after receipt of such notice, it shall then or at any time there after, be lawful for the Engineer-in-Charge to take suitable action in accordance with Clause.60 of APSS.

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26. Suspension of works by the Contractor:

- 26.1 If the Contractor shall suspend the works, or sublet the work without sanction of the Engineer-in-Charge, or in the opinion of the Engineer-in-Charge shall neglect or fail to proceed with due diligence in the performance of his part of the Contract as laid down in the Schedule rate of progress, or if he shall continue to default or repeat such default in the respects mentioned in clause.27 of the APSS Engineer-in-Charge shall take action in accordance with Clause 61 of APSS.
- 26.2 If the Contractor stops work for 28 days and the Stoppage has not been authorised by the Engineer-in-Charge the Contract will be terminated under Clause 61 of APSS.
- 26.3 If the Contractor has delayed the completion of works the Contract will be Terminated under Clause.61 of APSS.

27. Extension of the Intended Completion Date:

- 27.1 The Engineer-in-Charge shall extend or recommend for extension, in accordance with the Government orders in force, the Intended Completion Date if a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.
- 27.2 The Engineer-in-Charge shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

28. Delays Ordered by the Engineer-in-Charge:

- 28.1 The Engineer-in-Charge may instruct the Contractor to delay the start or progress of any activity within the Work.

29. Early Warning:

- 29.1 The contractor is to warn the Engineer-in-Charge at the earliest opportunity of specific likely future events or circumstances that may adversely affect the Execution of Works.
- 29.2 The Contractor shall cooperate with the Engineer-in-Charge in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer-in-Charge.

30. Management Meetings:

- 30.1 The Engineer-in-Charge may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the programme for remaining work and to deal with matters raised in accordance with the early warning procedure.

C. QUALITY CONTROL**31. Identifying Defects:**

- 31.1 The Engineer-in-Charge shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer-in-Charge may instruct the Contractor to verify the Defect and to uncover and test any work that the Engineer considers may be a Defect.

32. Tests:

- 32.1 If the Engineer-in-Charge instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the Contractor shall pay for the test and any samples.

33. Correction of Defects:

- 33.1 The Engineer-in-Charge shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins on Completion. The defects liability period shall be extended for as long as defects remain to be corrected by the Contractor.
- 33.2 Every time notice of a Defect is given, the Contractor shall correct the notified defect within the length of time specified by the Engineer-in-Charge's notice.

34. Uncorrected Defects:

- 34.1 If the contractor has not corrected the defect within the time specified in the Engineer-in-Charge's notice, the Engineer-in-Charge will assess the cost of having the defect corrected and the contractor will pay this amount.

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- 34.2 The Engineer-in-Charge shall introduce O.K. cards and prescribed the formats there of. O.K. cards shall relate to all major components of the work. The contractor / his authorised representative shall be required to initiate and fill in and present the O.K. card to the construction staff who would check the respective items and send to the quality control staff for final check and clearance / O.K. Any defects pointed out by the construction supervision staff or by the Quality Control staff shall promptly be attended to by the contractors and the fact of doing so be duly recorded on the back of O.K. card.
- 34.3 The Engineer-in-Charge may also introduce checklists, which shall be kept in Bound registers by the construction supervision staff. The contractor may be required to fill up these lists in the first instance and shall be subsequently checked by the Construction / Quality Control engineers.

35. Quality Control:

In addition to the normal inspection by the regular staff in-charge of the Construction of work, the work will also be inspected by the Executive Engineer Quality control staff and any other authorized external Agency if any sub-standard work or excess payments are noticed with reference to measurement books etc., during inspection, action will be taken based on their observations and these will be effected by the Engineer-in-Charge of the execution of the work. For all works costing more than Rs.2.00 Crores the Contractor shall submit quality plan and also show proof of owning quality lab or tie-up with an established quality lab.

D. Cost Control

36. Bill of Quantities:

- 36.1 The Bill Quantities shall contain items for the construction work to be done by the Contractor.
- 36.2 The Contractor is paid for the quantity of the work done at the estimate rate in the Bill of Quantities for each item plus or minus Tender percentage.

37. Changes in the Quantities:

- 37.1 The contractor is bound to execute all supplemental works that are found essential, incidental and inevitable during execution of main work.

- 37.2 The payment of rates for such supplemental items of work will be regulated as under;

- 37.2.1.1 Supplemental items directly deducible from similar items in the original agreement.

- 37.2.1.1.1 The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials, labour between the new items and similar items in the agreement worked out with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which the tenders are accepted plus or minus over all tender percentage.

- 39.2.1.2

- (a) Similar items but the rates of which cannot be directly deduced from the original agreement.

- (b) Purely new items which do not correspond to any item in the agreement.

- 39.2.1.2.1 The rates of all such items shall be Estimated Rates plus or minus overall Tender premium.

40 Extra Items:

- 40.2 Extra items of work shall not vitiate the contract. The contractor shall be bound to execute extra items of work as directed by the Engineer-in-Charge. The rates for extra items shall be worked out by the Executive Engineer as per the conditions of the Contract and the same are binding on the Contractor.

- 40.3 The contractor shall before the 15th day of each month, submit in writing to the Executive Engineer a statement of extra items if any that they have executed during the preceding month failing which the contractor shall not be entitled to claim any.

- 40.4 Entrustment of additional items:

- 40.4.1 Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with bids and if the value of such items exceeds the limits up to which the officer is empowered to entrust works initially to contractor without calling for tenders, approval of **next higher authority** shall be obtained. Entrustment of such items on nomination shall be at rates not exceeding the estimated rates.

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40.4.2 Entrustment of the additional items contingent on the main work will be authorized by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original agreement rates for such items shall be worked out in accordance with the procedure (I) For all items of work in excess of the quantities shown in the Bill of Quantities of the Tenders, the rate payable for such items shall be estimate rates for the items (+) or (-) over all tender percentage accepted by the competent authority.

40.4.3 Entrustment of either the additional or supplemental items shall be subject to the provisions of the agreement entered into by a Competent Authority after the tender is accepted. The Chief Engineer being the authority next higher to the Superintending Engineer, who entered into the agreement approves the rate for the items / variation in quantity in the current agreement. The items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

Note: It may be noted that the term Estimate Rate used above means the rate in the sanctioned estimate with which the tenders are accepted, or if no such rates is available in the estimate, the rate derived will be with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which tenders are accepted.

41 Cash flow forecasts:

41.2 When the program is updated, the contractor is to provide the Engineer-in-charge with an updated cash flow forecast.

42 Payment Certificates:

42.2 The Contractor shall submit to the Engineer-in-charge monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

42.3 The Engineer-in-charge shall check the Contractor's monthly statement within 14 days.

42.4 The value of work executed shall be determined by the Engineer-in-charge.

42.5 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

42.6 The Engineer-in-charge may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

43 Payments:

43.2 Payment for the work done by the contractor will be made for the finished work based on the measurements recorded in measurement books by any officer of the department not lower in rank than a Assistant Engineer and check measured by any officer not lower in rank than a Deputy Executive Engineer. The measurement shall be recorded at various stages of the work done and also after work is completed. The contractor shall be present at the time of recording of each set of measurement and their check measurement and accept them then and there so as to avoid disputes at a later stage. If the contractor is not available at the work spot at the time of recording measurements or check measurements the particulars of measurements shall be signed by the authorized agent of contractor based on which the contractor shall accept the set of measurements without any further dispute. If for any reason the contractor's authorized agent is also not available at site when the department decides to suspend the work recording of measurements in the absence of the contractor or his authorized representative the department shall not entertain any claim from the contractor for any loss incurred by him on this account. The Contractor shall however note that the Department cannot indefinitely wait for recording the measurement due to the absence of the Contractor and his authorized agent and check measure them even in the absence of the contractor.

43.3 The actual volume of stone and aggregates shall be computed after deducing the following percentages from the volume computed by stack measurements.

S. No	Standard size of aggregate and stone	Percentage reduction in volume computed by stack measurements to arrive at the volume to be paid for
1.	Stone	40
2.	40 mm and 25 mm	10
3.	20 mm, 12 mm, 10 mm & 6 mm	5
4.	Fine aggregate	Nil
5.	Gravel	20

[Note: The above Table may be modified depending on the type of work.]

Unless otherwise directed, measurements shall not be taken until sufficient materials for use on work have been collected and stacked. Immediately after measurement, the stack shall be marked by white wash or other means as directed by the Engineer-in-charge.

M/s CHAUDHARY BUILDERS

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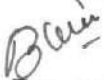
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T. I. Devasthanams
SUPERINTENDING ENGINEER-III,
T. I. DEVASTHANAMS,
TIRUPATI.


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- 43.4 Payments and Certificates:
- 43.4.1 Payments shall be adjusted for recovery of advance payments, liquidated damages in terms of tender conditions and security deposit for the due fulfillment of the contract. Payment will be made to the Contractor under the certificate to be issued at reasonably frequent intervals by the Engineer-in-Charge, and intermediate payment will be the sum equal to 92½% of the value of work done as so certified and balance of 7½% will be withheld and retained as security for the due fulfillment of the contractor under the certificate to be issued by the Engineer-in-Charge. On completion of the entire works the contractor will receive the final payment of all the moneys due or payable to him under or by virtue of the contract except earnest money deposit retained as security and a sum equal to 2½ percent of the total value of the work done. The amount withheld from the final bill will be retained under deposits and paid to the contractor together with the earnest money deposit retained as security after a period of 24 months as all defects shall have been made good according to the true intent and meaning thereof.
- 43.4.2 In case of over payments or wrong payment if any made to the contractor due to wrong interpretation of the provisions of the contract, APSS or Contract conditions etc., such unauthorized payment will be deducted in the subsequent bills or final bill for the work or from the bills under any other contracts with the T.T.Devasthanams / Government or at any time there after from the deposits available with the Government / T.T. Devasthanams.
- 43.4.3 Any recovery or recoveries advised by the Government Department either state or central, due to non-fulfillment of any contract entered into with them by the contractor shall be recovered from any bill or deposits of the contractor.
- 43.4.4 No claim shall be entertained, if the same is not represented in writing to the Engineer-in-Charge within 15 days of its occurrence.
- 43.4.5 The contractor is not eligible for any compensation for inevitable delay in handing over the site or for any other reason. In such case, suitable extensions of time will be granted after considering the merits of the case.
- 43.5 Intermediate Payments:
- 43.5.1 For intermediate Stage of work, only part rates as fixed by the Engineer-in-Charge will be paid.
- 43.5.2 Part rates shall be worked out for the work done portion based on the actual operations involved keeping in view the value of the balance work to be done, to avoid unintended benefit to the Contractor in initial Stage.
- 43.5.3 Full rate shall be paid when the work is completed to the full profile as noted in the drawings.
- 43.5.4 For earthwork in cutting, 10% of the quantity will be with-held for intermediate payments and the same will be released after completing the work to the profiles as per drawings and disposal of the spoil material at the specified places and handing over the balance useful stone.
- 43.5.5 For this purpose a length of 25 mts. will be taken as a Unit.
- 43.5.6 For earthwork, embankment formation work, 10% of the quantity will be withheld for intermediate payments and the same will be released after completing the bund to the profiles as per drawings including trimming of side slopes and all other works contingent to the bund profile. For this purpose, 25 mts of length will be taken as a Unit.
- 43.5.7 For the structure works either with masonry or concrete where the height of structure is more than three meters, the quantities executed in the lower level will be withheld at the rate of one percent for every three meters height, if the balance height o the structure work is more than three meters in being over the executed level and the same will be released only after the entire work is completed as certified by the Engineer-in-Charge.
- 43.5.8 For C.M. & C.D. works and for lining works, spread over more than 2 Km. In length 5 percent of the concrete and Masonry quantities will be with held and the same will be released after completion of all C.M. & C.D. works and lining for the entire length certified by the Engineer-in-Charge.
- 43.5.9 Where payment is intended for aggregates by Bill of Quantities item based on stack measurements, 10% of the quantity measured will be withheld. No payment or advance will be made for unfixed materials when the rates are for finished work in site.
- 44 Interest on Money due to the Contractor:**
- 44.2 No omission by the Executive Engineer or the sub-divisional officer to pay the amount due upon certificates shall vitiate or make void the contract, nor shall the contractor be entitled to interest upon any guarantee fund or payments in arrear, nor upon any balance which may, on the final settlement of his accounts, found to be due to him.

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 SUPERINTENDING ENGINEER
 T. T. DEVASTHANAMS,
 TIRUPATI.

Proprietor

45 Certificate of Completion of works:

45.2 Certificate of Completion of works:

45.2.1 When the whole of the work has been completed and has satisfactorily passed any final test that may be prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer-in-Charge accompanied by an undertaking to carryout any rectification work during the period of maintenance, such notice and undertaking shall be in writing and shall be deemed to be request by the Contractor for the Engineer-in-Charge to issue a Certificate of completion in respect of the Works. The Engineer-in-Charge shall, within twenty one days of the date of delivery of such notice either issue to the Contractor, a certificate of completion stating the date on which, in his opinion, the works were completed in accordance with the Contract or give instructions in writing to the Contractor specifying all the Works which, in the Engineer-in-Charge" opinion, required to be done by the Contractor before the issue of such Certificate. The Engineer-in-Charge shall also notify the Contractor of any defects in the Works affecting completion that may appear after such instructions and before completion of the Works specified there in. The Contractor shall be entitled to receive such Certificate of the Completion within twenty one days of completion to the satisfaction of the Engineer-in-Charge of the Works so specified and making good of any defects so notified.

45.2.2 Similarly, the Contractor may request and the Engineer-in-Charge shall issue a Certificate of Completion in respect of:

- a) Any section of the Permanent works in respect of which a separate time for completion is provided in the Contract, and
- b) Any substantial part of the Permanent Works which has been both completed to the satisfaction of the Engineer-in-Charge and occupied or used by the Department.

45.2.3 If any part of the Permanent Works shall have been completed and shall have satisfactorily passed any final test that may be prescribed by the Contract, the Engineer-in-Charge may issue such certificate, and the Contractor shall be deemed to have undertaken to complete any outstanding work in that part of the Works during the period of Maintenance.

46 Taxes included in the bid:

46.2 The percentage quoted by the contractor shall be deemed to be inclusive of the sales Tax and other taxes on all materials that the contractor will have to purchase for performance of this contract.

46.3 Any Central or State sales and other taxes on completed items of works of this contract (other than clause 101) as may be levied and paid by the contractor are to be borne by himself/herself.

46.4 Price Adjustment:

(A) Price adjustment shall apply for cement and steel only as per the principle of GO.MS.No:94 R&B (RI) Dept.Govt.AP dt. 16-4-2008 and relevant subsequent GOs in this regard. However, the rates of steel and cement as approved by CPWD-Delhi will be considered instead of rates approved by the Govt. of AP which are based on the recommendations of Board of Chief Engineers AP. Further, price adjustment for Bitumen and POL will be applicable as per G.O.MS. No. 252 T & RB (RI) Dept. Govt. AP dt. 28-08-2008.

(B) The price adjustment shall apply only for the work carried out with in the agreement period and shall not apply to work carried out beyond the agreed period of completion.

(C) The price adjustment shall be for works for which valid extension given for natural calamities duly limiting to the actual period/ days lost and for portion of work where work is delayed due to land acquisition / shifting of utilities. (This shall also be limited to actual length affected)

(D) Price adjustment shall apply for steel and cement only and no price adjustment will be considered on other items.

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B. Srinivas
Proprietor

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SUPERINTENDING ENGINEER (D),
CHAUDHARY BUILDERS,
DEVASTHANAMS,
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47 Retention:

- 47.2 The department shall retain from each payment due to the contractor @ the rate of 7.5% of bill amount until completion of the whole of the Works.
- 47.3 On completion of the whole of the Works, out of 7 ½ % retention amount, 5% will be re-paid to the Contractor and remaining 2 ½ % will be released, when the Defects Liability Period has passed and the Engineer-in-Charge has certified that all the Defects notified by the Engineer-in-Charge to the Contractor before the end of this period have been corrected.
- 47.4 On completion of the whole works, the Contractor may substitute retention money with an "on demand" Bank Guarantee.

48 Liquidated Damages:

- 48.2 If for any reason, which does not entitle the contractor to an extension of item, the rate of progress of works, or any section is at any time, in the opinion of the Superintending Engineer too slow to ensure completion by the prescribed time or extended time for completion Superintending Engineer shall so notify the contractor in writing and the contractor shall there upon take such steps as are necessary and the Superintending Engineer may approve to expedite progress so as to complete the works or such section by the prescribed time or extended time. The contractor shall not be entitled to any additional payment for taking such steps. If as a result of any notice given by the Superintending Engineer under this clause the contractor shall seek the Superintending Engineers permission to do any work at night or on Sundays, if locally recognized as days or rest, or their locally recognized equivalent, such permission shall not be unreasonably refused.

- 48.3 If the contractor fails to complete whole of the works or any part thereof or section of the works within the stipulated periods of individual mile stones (including any bonafide extensions allowed by the competent authority without levying liquidated damages), the Superintending Engineer may without prejudice to any other method of recovery will deduct one tenth of one percent of contract value per calendar day or part of the day for the period of delays subject to a maximum of 10% of the contract value not as a penalty from any monies in his hands due or which may become due to the contractor. The payment or deductions of such damages shall not relieve the contractor from his obligation to complete the works, or from any other of his obligations and liabilities under the contract.

- 48.4 The maximum amount of liquidated damages for the whole of the works is ten percent of final contract price.

48.5 Mobilization Advance:

No advance whatsoever either for mobilization of machinery and materials of the execution of work will be given under any circumstances. The tender received with such conditions will be summarily rejected.

49 Securities:

- 49.2 The Earnest Money Deposit and Additional Security (for discount tender percentage beyond 25%) shall be provided to the Department not later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank acceptable to the Department. The Earnest Money shall be valid until a date 28 days from the date of expiry of Defects Liability Period and the additional security shall be valid until a date 28 days from the date of issue of the certificate of completion.

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M/s CHAUDHARY BUILDERS
T. DEVASTHANAMS,
TIRUPATI.

Proprietor

55 Payment upon Termination:

55.2 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payments received upon the date of the issue of the certificate, less other recoveries due in terms of the Contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed. Additional Liquidated Damages shall not apply. If the total amount due to the Department exceeds any payment due to the Contractor the difference shall be a debt payable to the Department.

56 Property:

56.2 All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Department if the Contract is terminated because of Contractor's default.

57 Release from Performance:

57.2 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Department or the Contractor the Engineer-in-Charge shall certify that the contract has been frustrated. The Contractor shall make the site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out after wards to which commitment was made.

F. SPECIAL CONDITIONS**60. Water Supply:**

60.1 It is the responsibility of the Contractor to make his own arrangements for water supply for the work and labour, at his own cost. The Department will not take any responsibility to arrange for water at work site. However In case the department supply is available at near by point, the contractor will be permitted to draw water from this point subjected to availability and the contractor has to make necessary arrangements for drawl of water by providing pipe line and installing a pump set form the source at his cost and the contractor has to pay the charges at 0.25% of the grass value of the works, which will be deducted from the running bills on pro-rata basis.

60.2 The water used for the construction shall be complied with, as per the relevant standards. The rates quoted by the contractor are deemed to be inclusive of all the above costs and operations and no compensation on this account will be allowed at later date.

61 Electrical Power:

61.1 The power for the construction equipment, lighting and other purposes shall be obtained directly from the state Electricity Board, entering into a separate agreement with them, as per the conditions and the rates of supply obtained with the Board. The contractor will have to make his own arrangements to lay and maintain the necessary L.T. distribution lines and wiring for the works at his cost. The metering will be at a single point of initial L.T. supply. The department is not responsible for any sort of power failures and power breakdown etc., and no compensation of any kind will be paid by the department on account of failures or breakdowns in supply of power.

57.3 The materials supplied shall confirm to make and specifications as mentioned in the Schedule.

57.4 Installations generally shall be carried out in conformity with Indian standard code or practice for electrical wiring installations L.S. 732-1963 and 2274.

57.5 The contractor should possess license issued by the Secretary, Licensing Board, Government of A.P.S.E.B. to execute such type of works and he should mention the license number at the time of the tendering.

57.6 The list of specifications for all electrical materials is enclosed for execution.

57.7 In case of failure of electricity, the Contractor has to make alternative arrangements for supply of electricity by Diesel Generator sets of suitable capacity at place of work.

57.8 In case, sufficient capacity of power is available with the TTD at near-by TTD lines, the contractor may be permitted to draw power from this point on payment basis. But the contractor has to lay all the lines/transformers/other appliances required from this point.

57.9 The contractor will pay the bills of Electricity Board for the cost of power consumed by him.

57.10 The contractor shall satisfy all the conditions and rules required as per Indian Electricity Act 1910 and under rule -45(I) of the Indian Electricity Rules, 1956 as amended from time to time and other pertinent rules.

57.11 The power shall be used for bonafide Departmental works only.

57.12 The rate quoted by the contractor is deemed to be inclusive of all the above and no compensation on this account will be allowed at later date.

57.13 The department is not responsible for any sort of power failures and power break down etc., and no compensation of any kind will be paid by the department on account of such failures and no extension of time will be granted under such reasons.

- 50 Cost of Repairs:
- 50.2 Loss or damage to the Works or materials to the Works between the Start Date and the end of the Defects Correction Periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. FINISHING THE CONTRACT

51 Completion:

- 51.2 The Contractor shall request the Engineer-in-Charge to issue a Certificate of completion of the Works and the Engineer-in-Charge will do so upon deciding that the work is completed.

52 Taking Over:

- 52.2 The Department shall take over the Site and the Works within seven days of the Engineer-in-Charge issuing a certificate of Completion.

53 Final Account:

- 54.1 The Contractor shall supply to the Engineer-in-Charge a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer-in-Charge shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer-in-Charge shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the final Account is still unsatisfactory after it has been resubmitted, the Engineer-in-Charge shall decide on the amount payable to the Contractor and issue a payment certificate within 56 days of receiving the Contractor's revised account.

54 Termination:

- 54.2 The Department may terminate the Contract if the contractor causes a fundamental breach of the Contract.

- 54.3 Fundamental breaches of Contract include, but shall not be limited to the following.

- a) The Contractor stops work for 28 days when no stoppage of work is shown on the current program and the stoppage has not been authorised by the Engineer-in-Charge.
- b) The Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.
- c) The Engineer-in-Charge gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer-in-Charge; and
- d) The Contractor does not maintain a security which is required and
- e) The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined.
- f) If the contractor, in the judgment of the Department has engaged in corrupt or fraudulent practices in competing for or in the executing the contract.

For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Government and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Government of the benefits of free and open competition.

- 54.4 Notwithstanding the above the Department may terminate the contract for convenience.

- 54.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secured leave the Site as soon as reasonably possible.

M/s CHAUDHARY BUILDERS

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SUPERINTENDING ENGINEER-III, ID 214
T. T. DEVASTHANAMS,
TIRUPATI.

61.2 Electric Power for Domestic Supply:

- a) The contractor will have to make his own arrangements to lay and maintain the necessary distribution lines and wiring for the camp at his own cost. The layout and the methods of laying the lines and wiring shall have the prior approval of the Engineer-in-Charge. All camp area shall be properly electrified. All lines, streets, approaches for the camp etc., shall be sufficiently lighted for the safety of staff and labour of the contractor, at the cost of the Contractor and it will be subject to the approval of the Engineer-in-Charge.

62 Land:

62.1 Land for Contractor's use:

The contractor will be permitted to use T.T.Devasthanams / Government land for execution of work. The contractor shall have to make his own arrangements for acquiring and clearing the site, leveling, providing drainage and other facilities for labour staff colonies, site office, work-shop or stores and for related activities. The Contractor shall apply to the Department within a reasonable time after the award of the contract and atleast 30 days in advance of its use, the details of land required by him for the work at site and the land required for his camp and should any private land which has not been acquired, be required by the contractor for his use. The same may be acquired by the contractor at his own cost by private negotiations and no claim shall be admissible to him on this account.

The Engineer-in-Charge reserves the right to refuse permission for use of any government land for which no claim or compensation shall be admissible to the contractor. The contractor shall, however, not be required to pay cost or any rent for the T.T.Devasthanams / Government land given to him.

62.2 Surrender of Occupied Land:

- a) The T.T.Devasthanams / Government land as here in before mentioned shall be surrendered to the Engineer-in-Charge within seven days, after issue of completion certificate. Also no land shall be held by the contractor longer than the Engineer-in-Charge shall deem necessary and the contractor shall on the receipt of due notice from the Engineer-in-Charge, vacate and surrender the land which the Engineer-in-Charge may certify as no longer required by the Contractor for the purpose of the work.
- b) The contractor shall make good to the satisfaction of the Engineer-in-Charge any damage to areas, which he has to return or to other property or land handed over to him for purpose of this work. Temporary structures may be erected by the contractor for storage sheds, offices, residences etc., for non-commercial use, with the permission of the Executive Engineer on the land handed over to him at his own cost. At the completion of the work these structures shall be dismantled site cleared and handed over to the Executive Engineer. The land required for providing amenities will be given free of cost from Government lands if available otherwise the contractor shall have to make his own arrangements.

62.3 Contractor not to dispose off Spoil etc.: -

The contractor shall not dispose off or remove except for the purpose of fulfillment of this contract, sand, stone, clay ballast, earth, trees and shrubs or other materials obtained in the excavation made or lying on the site of the work, and all such materials and produce shall remain property of the T.T.Devasthanams / Government. The Department may upon request from the contractor, or if so stipulated in the conditions of the contract allow the contractor to use any of the above materials for the works either free of cost or after payment as may be specifically mentioned or considered necessary during the execution of the work.

63 Roads:

In addition to existing public roads and roads Constructed by T.T.Devasthanams / Government, if any, in work area all additional approach roads inside work area and camp required by the Contractor shall be constructed and maintained by him at his own cost. The layout design, construction and maintenance etc. of the roads shall be subject to the approval of the Engineer-in-Charge. The contractor shall permit the use of these roads by the T.T.Devasthanams / Government free of charge.

It is possible that work at, or in the vicinity of the work site will be performed by the T.T.Devasthanams / Government or by other contractors engaged in work for the Government during the contract period. The contractor shall without charge permit the government and such other contractor and other workmen to use the access facilities including roads and other facilities, constructed and acquired by the contractor for use in the performance of the works.

The contractor's heavy construction traffic or tracked equipment shall not traverse any public roads or bridges unless the contractor has made arrangement with the authority concerned. In case contractor's heavy construction traffic or tracked equipment is not allowed to traverse any public roads or bridges and the contractor is required to make some alternative arrangements, no claim on this account shall be entertained.

The contractor is cautioned to take necessary precautions in transportation of construction materials to avoid accidents.

M/s CHAUDHARY BUILDERS

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Proprietor

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SUPERINTENDING ENGINEER
M/s CHAUDHARY BUILDERS
T. T. DEVASTHANAMS,
TIRUPATI

Proprietor

64 Payment for Camp Construction:

No payment will be made to the contractor for construction, operation and maintenance of camp and other camp facilities and the entire cost of such work shall be deemed to have been included in the tendered rate for the various items of work in the schedule of quantities and bids.

65 Explosive And Fuel Storage Tanks:

No explosive shall be stored within ½ (half) KM of the limit of the camp sites. The storage of gasoline and other fuel oils or of Butane, Propane and other liquified petroleum gases, shall conform to the regulations of Andhra Pradesh State Government and Government of India. The tanks, above ground and having capacity in excess of 2000 litres, shall not be located within the camp area, nor within 200m, of any building.

66 Labour:

The contractor shall, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

Labour importation and amenities to labour and contractor's staff shall be to the contractor's account. His quoted percentage shall include the expenditure towards importation of labour amenities to labour and staff;

The contractor shall, if required by the Engineer-in-Charge, deliver to the Engineer-in-Charge a written in detail, in such form and at such intervals as the Engineer-in-Charge may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the contractor on the Site and such information respecting Contractor's Equipment as the Engineer-in-Charge may require.

66.1 Transportation of Labour:

- I. The contractor shall make his own arrangement for the daily transportation of the labour and staff from labour camps colonies to the work spot and no labour or staff of the contractor shall stay at the work spot. No extra payment will be made to the contractor for the above transportation of the labour and his quoted percentage to the work shall include the transportation charges of labour from colonies to work spot and back.
- II. The contractor will at all times duly observe the provisions of employment of children Act XXVI of 1938 and any enactment or modification of the same and will not employ or permit any person to do any work for the purpose under the provisions of this agreement in contravention of said Act. The contractor here by agrees to indemnify the department from and against all claims, penalties which may be suffered by the department or any person employed by the department by any default on the part of the contractor in the observance and performance of the provisions of the employment of children Act. XXVI of 1938 or any enactment or modification of the same. As per Govt. memo No.721/Gr.(1)/81-35, dt:17.11.87. The contractor shall obtain the insurance at his own cost to cover the risk on the works to labour engaged by him during period of execution against fire and other usual risks and produce the same to the Executive Engineer concerned before commencement of work.

67 Safety Measures:

1. The contractor shall take necessary precautions for safety of the workers and preserving their health while working in such jobs, which require special protection and precautions. The following are some of the measures listed but they are not exhaustive and contractor shall add to and augment these precautions on his own initiative where necessary and shall comply with directions issued by the Executive Engineer or on his behalf from time to time and at all times.
2. Providing protective foot wear to workers situations like mixing and placing of mortar or concrete sand in quarries and places where the work is done under much wet conditions.
3. Providing protective head wear to workers at places like under ground excavations to protect them against rock falls.
4. Providing masks to workers at granulates or at other locations where too much fine dust is floating about and sprinkling water at frequent intervals by water hoses on all stone crushing area and storage bins abate to dust.
5. Getting the workers in such jobs periodically examined for chest trouble due to too much breathing in to fine dust.
6. Taking such normal precautions like fencing and lightening in excavation of trenches, not allowing rolls and metal parts of useless timber spread around, making danger areas for blasting providing whistles etc.
7. Supply work men with proper belts, ropes etc., when working in precarious slopes etc.
8. Avoiding named electrical wire etc., as they would electrocute the works.
9. Taking necessary steps towards training the workers concerned on the machinery before they are allowed to handle them independently and taking all necessary precautions in around the areas where machines hoists and similar units are working.

68 Fair Wage Clause:

1. The contractor shall pay not less than fair wages to laborers engaged by him on the work.
2. "Fair" wages means wages whether for time of piecework notified by the Government from time in the area in which the work is situated.
3. The contractor shall not with-standing the revisions of any contract to the contrary cause to be paid to the labour, in directly engaged on the work including any labour engaged by the sub-contractor in connection with the said work, as if the labourers had been directly employed by him.
4. In respect of labour directly or indirectly employed in the works for the purpose of the contractors part of the agreement the contractor shall comply with the rules and regulations on the maintenance of suitable records prescribed for this purpose from time to time by the Government. He shall maintain his accounts and vouchers on the payment of wages to the labourers to the satisfaction of the Executive Engineer.
5. The Executive Engineer shall have the right to call for such record as required to satisfy himself on the payment of fair wages to the labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss suffered by the worker or workers by reason of the "fair wages" clause to the workers.
6. The contractor shall be primarily liable for all payments to be made and for the observance of the regulations framed by the Govt. from time to time without prejudice to his right to claim indemnity from his sub-contractors.
7. As per contract labour (Regulation and abolition) Act. 1970 the contractor has to produce the license obtained from the licensing officers of the labour department along with the tender or at the time of agreement.
8. Any violation of the conditions above shall be deemed to be a breach of his contract.
9. Equal wages are to be paid for both men and women if the nature of work is same and similar.
10. The contractor shall arrange for the recruitment of skilled and unskilled labour local and imported to the extent necessary to complete the work within the agreed period as directed by the Executive Engineer in writing.

69 Indemnity Bond:

Name of work : **Construction of New science block at S.V.College, New Delhi.** I
contractor S/o. _____ aged _____

Resident of _____ do hereby bind myself to pay all the claims may come (a) under Workmen's Compensation Act. 1933 with any statutory modification there of and rules there under or otherwise for or in respect of any damage or compensation payable in connection with any accident or injury sustained (b) under Minimum wages Act 1948 (c) under payment of wages Act.1936 (d) under the Contractor labour (Regulation and Abolition) Act. 1970 by workmen engaged for the performance of the business relating to the above contract i.e., Failing such payment of claims of workmen engaged in the above work, I abide in accepting for the recovery of such claims, effected from any of my assets with the departments.

70 Compliance With Labour Regulations:

During continuance of the contract, the contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority and also applicable labour regulations, health and sanitary arrangements for workmen, insurance and other benefits. Salient features of some of the major labour laws that are applicable to construction industry are given below. The contractor shall keep the Department indemnified in case any action is taken against Department by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Department is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provision stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the contractor, the Engineer-in-charge /Department shall have the right to deduct any money due to the contractor including his amount of performance security. The Department/Engineer-in-Charge shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the Department.

The employees of the Contractor and the Sub-contractor in no case shall be treated as the Department of the Department at any point of time.

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T. T. DEVASTHANAMS,
TIRUPATI.

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Proprietor

71 Salient features of some major labour laws applicable to establishment engaged in buildings and other construction work:

- (a) Workmen compensation Act 1923: The Act provides for compensation in case if injury by accident arising out of and during the course of employment.
- (b) Payment of Gratuity Act 1972: Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if any employee has completed 5 years service or more, or on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments, employing 10 or more employees.
- (c) Employees P.F. and Miscellaneous provision Act 1952: The Act provides for monthly contributions by the Department plus workers @ 10% or 8.33%. The benefits payable under the Act are:
- (i) Pension or family pension on retirement or death, as the case may be.
 - (ii) Deposit linked insurance on the death in harness of the worker.
 - (iii) Payment of P.F. accumulation on retirement/death etc.,
- (d) Maternity Benefit Act 1951: The Act provides for leave and some other benefits to women employees in case of confinements or miscarriage etc.
- (e) Contract Labour (Regulation & Abolition) Act 1970: The Act provides for certain welfare measures to be provided by the contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided by the Principal Department by Law. The Principal Department is required to take certificate of Registration and the contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Department if they employ 20 or more contract labour.
- (f) Minimum wages Act 1948: The Department is supposed to pay not less than the Minimum wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment construction of Buildings, Roads, Runways are scheduled employments.
- (g) Payment of wages Act 1936: It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made form the wages of the workers.
- (h) Equal Remuneration Act 1979: The Act provides for payment of equal wages for work of equal nature to Male or Female workers and for not making discrimination against Female employee in the matters of transfers, training and promotions etc.
- (i) Payment of Bonus Act 1965: The Act Is applicable to all establishments employing 20 or more employees. The Act provides for payment of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs. 3500/- per month or less. The bonus to be paid to employees getting Rs.2500/- per months or above and up to Rs.3500/- per month shall be worked out by taking wages as Rs.2500/- per monthly only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.
- (j) Industrial Disputes Act 1947: The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock- out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- (k) Industrial Employment (Standing Orders) Act 1946: It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Department on matters provided in the Act and get the same certified by the designated Authority.
- (l) Trade Unions Act 1926: The Act lays down the procedure for registration of trade unions of workmen and Departments. The Trade Unions registered under the act have been given certain immunities from civil and criminal liabilities.
- (m) Child Labour (Prohibition & Regulation) Act 1986: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes, Employment Child Labour is prohibited in Building and Construction Industry.

- (n) Inter-State Migrant workmen's (Regulation of Employment & Conditions of service) Act 1979: The Act applicable to an establishment, which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another State). The inter State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home up to the establishment and back, etc.
- (o) The Building and Other Construction workers (regulation of Employment and conditions of service) Act 1996 and the Cess Act of 1996: All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Department of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Department to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- (p) Factories Act 1948: The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 person or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

72 Liabilities of the Contractor:

72.1 Accident Relief and workmen compensation:

The contractor should make all necessary arrangements for the safety of workmen on the occurrence of the accident, which results in the injury or death of any of the workmen employed by the contractor, the contractor shall within 24 hours of the happenings of the accident and such accidents should intimate in writing to the concerned Asst. Engineer / Asst. Executive Engineer of the Department the act of such accident. The contractor shall indemnify Government against all loss or damage sustained by the Government resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or fines if any payable by Govt. as a consequence of Govt. failure to give notice under workmen's compensation Act or otherwise conform to the provisions of the said Act. In regard to such accident.

72.2 In the event of an accident in respect of which compensation may become payable under the workmen's compensation Act VIII 23 whether by the contractor, by the Government it shall be lawful for the Executive Engineer to retain such sum of money which may in the opinion of the Executive Engineer be sufficient to meet such liability. The opinion of the Executive Engineer shall be final in regard to all matters arising under this clause.

72.3 The contractor shall at all times indemnify the Govt. of A.P. against all claims which may be made under the workmen's compensation act or any statutory modification thereafter or rules there under or otherwise consequent of any damage or compensation payable in consequent of any accident or injuries sustained or death of any workmen engaged in the performance of the business relating to the contractor.

73 Contractor's Staff, Representatives and Labour:

- (a) The contractor shall, at all times, maintain on the works, staff of qualified Engineers, and Supervisors of sufficient experience of similar other jobs to assure that the quality of work turned out shall be as intended in the specifications. The contractor shall also maintain at the works, a Work Manager or sufficient status, experience and office and duly authorize him to deal with all aspects of the day-to-day work. All communications to any commitments by the Work Manager shall be considered as binding on the Contractor.
- (b) The Contractor shall at all times submit details of skilled and unskilled labour and equipment employed to the Engineer-in-Charge in prescribed proforma as he may require to assess and ensure the proper progress of work.
- (a) For the work costing more than 10.00 Lakhs, if the contractor does not employ the technical person agreed to on the work a fine of Rs. 25, 000/- will be imposed. If he does not employ for 30 days, thereafter it becomes a fundamental breach of contract.
- (b) For the work costing less than 10.00 Lakhs the Executive Engineer has to imposed on suitable fine of Rs. 5,000/- for non-employment of technical person. If he does not employ for 30 days, thereafter it becomes a fundamental breach of contract.

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74 Accommodation and food:

The contractor should arrange accommodation he needs, at his own cost. The contractor shall make his own arrangements for supply of food grains, fuel and other provision to his staff and labourers including controlled commodities.

75 Relationship:

Contractor shall have to furnish information along with tender, about the relationship he is having with any officer of the Department, Government of Andhra Pradesh of the rank Assistant Engineer and above engaged in the work and any officer of the rank of Assistant Secretary and above of the Department of Government of Andhra Pradesh.

76 Protection of adjoining premises:

The contractor shall protect adjoining sites against structural, decorative and other damages that could be caused by the execution of these works and make good at his cost any such damages.

77 Work during night or on Sundays and holidays:

The works can be allowed to be carried out during night, Sundays or authorized holidays in order to enable him to meet the schedule targets and the work shall require almost round the clock working keeping in view:

- (i) The provisions of relevant labour laws being adhered to:
- (ii) Adequate lighting, supervision and safety measures are established to the satisfaction of the Engineer-in-Charge and
- (iii) The construction programme given by the Contractor and agreed upon by the Engineer-in-Charge envisages such night working or working during Sundays or authorized holidays.

78 Layout of materials stacks:

The contractor shall deposit materials for the purpose of the work on such parts only of the ground as may be approved by the Engineer-in-Charge before starting work. A detailed survey, clearly indicating position and areas where materials shall be stacked and sheds built is to be conducted by the contractor at his own cost and only after obtaining necessary approval of the plan for use of sites by the Engineer-in-Charge, the Contractor can use the sites accordingly.

79 Use of blasting materials:

Procurement of blasting materials and its storage is the responsibility of the contractor. The contractor shall engage licensed blaster for blasting operation. The contractor is to act in accordance with Indian Explosive Act and other rules prevailing, during the execution of work. It is the responsibility of the contractor to see, that works by other agencies in the vicinity are not hampered, in such cases if any claim is made by other agencies that should be borne by the contractor. Carriage of blasting materials, from the magazine to the work site, is the responsibility of the contractor.

80 Plant and Equipment:

- 80.1 The contractor shall have sufficient plant, equipment and labour and shall work such hours and shifts as may be necessary to maintain the progress on the work as per the approval progress schedule. The working and shifts hours shall comply with the Govt. Regulations in force.
- 80.2 It is to expressly and clearly understood that contractor shall make his own arrangements to equip himself with all machinery and special tools and plant for the speedy and proper execution of the work and the department does not undertake responsibility towards their supply.
- 80.3 The department shall supply such of the machinery that may be available on hire basis but their supply cannot be demanded as matter of right and no delay in progress can be attributed to such non-supply of the plant by the department and the department cannot be made liable for any damage to the contractor. The Contractor shall be responsible for safe custody of the departmental machinery supplied to him (which will be delivered to contractor at the machinery yard at site of work) and he has to make good all damages and losses if any other than fire, wear and tear to bring it to the conditions that existed at the time of issue to the contractor before handing over the same to the department. The hire charges for the machinery handed over to the contractor will be recovered at the rate prevalent at the time of supply. The contractor will have to execute supplemental agreement with Executive Engineer at the time of supply of the machinery.
- 80.4 The acceptance of departmental machinery on hire is optional to the contractor.

81 Steel forms:

Steel forms should be used for all items involving and use of centering and shuttering shall be single plane without any dents and undulations.

82 Inconvenience to public:

The contractor shall not deposit materials at any site, which will cause inconvenience to public. The Engineer-in-Charge may direct the contractor to remove such materials or may undertake the job at the cost of the contractor.

83 Conflict of interest:

Any bribe, commission, gift or advantage given, promised or offered by on behalf of contractor or his partner, agent or servant or any one on his behalf to any officer, servant, representatives, agents of Engineer-in-Charge, or any persons on their behalf, in relation to the obtaining or to execution of this, or any other contract with Engineer-in-Charge shall in addition to any criminal liability, which it may occur, subject to the cancellation of this or all other contracts and also to payment of any loss or damage resulting from any such cancellation. Engineer-in-Charge shall then be entitled to deduct the amount, so payable from any money, otherwise due to the contractor under this or any other contract.

84 Contract documents and materials to be treated as confidential:

All documents, correspondences, decisions and orders, concerning the contract shall be considered as confidential and/or restricted in nature by the contractor and he shall not divulge or allow access to them by any unauthorized person.

85 General obligations of Contractor:

- 85.1 The contractor shall, subject to the provision of the contract and with due care and diligence, execute and maintain the works in accordance with specifications and drawings.
- 85.2 The contractor shall promptly inform the Department and the Engineer-in-Charge of any error, omission, fault and toerh defect in the design of or specifications for the works which are discovered when reviewing the contract documents or in the process of execution of the works.
- 85.3 If Contractor believes that a decision taken by the Engineer-in-Charge was either outside the authority given to the Engineer-in-Charge by the Contract or that the decision was wrongly taken, the decision shall be referred to the technical expert within 14 days of the notification of the Engineer-in-Charge's decisions.
- 85.4 Pending finalization of disputes, the contractor shall proceed with execution of work with all due diligence.

86 Security measures:

- a) Security requirements for the work shall be in accordance with the Government's general requirements including provisions of this clause and the Contractor shall conform to such requirements and shall be held responsible for the actions of all his staff, employees and the staff and employees of his sub-contractors.
- b) All contractors' employees, representatives and sub-contractor's employees shall wear identifications badges provided by the contractor. Badges shall identify the contractor, showing and employee's number and shall be worn at all times while at the site. Individual labour will not be required to wear identification badges.
- c) All vehicles used by the contractor shall be clearly marked with contractor's name.
- d) The contractor shall be responsible for the security of the works for the duration of the contract and shall provide and maintain continuously adequate security personnel to fulfill these obligations. The requirements of security measures shall include, but not limited to maintenance of order on the site, provision of all lighting, fencing, guard flagmen and all other measures necessary for the protection of the works within the colonies, camps and elsewhere on the site, all materials delivered to the site, all persons employed in connection with the works continuously throughout working and non working period including nights, Sundays and holidays for duration of the contract.
- e) Other contractors working on the site concurrently with the contractor will provide security for their own plant and materials. However, their security provisions shall in no way relieve the contractor of his responsibilities in this respect
- f) Separate payment will not be made for provision of security services.

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87 Fire fighting measures:

- a) The contractor shall provide and maintain adequate fire fighting equipment and take adequate fire precaution measures for the safety of all personnel and temporary and permanent works and shall take action to prevent damage to destruction by fire of trees shrubs and grasses.
- b) Separate payment will not be made for the provision of fire prevention measures.

88 Sanitation:

The contractor shall implement the sanitary and watch and ward rules and regulations for all forces employed under this contract and if the Contractor fails to enforce these rules, the Engineer-in-Charge may enforce them at the expenses of the Contractor.

89 Training of personnel:

The contractor, shall, if and as directed by the Engineer-in-Charge provide free of any charge adequate facilities, for vocational training of Government Officers, students, Engineers, supervisors, foremen, skilled workmen etc. not exceeding six in number at any one time on the contractor's work. Their salaries, allowances etc. will be borne by the Government and the training schemes will be drawn up by the Engineer-in-Charge in consultation with the contractor.

90 Ecological balance:

- a) The contractor shall maintain ecological balance by preventing de-forestation, water pollution and defacing of natural landscape. The contractor shall so conduct his construction operation as to prevent any unnecessary destruction, scarring, or defacing of the natural surrounding in the vicinity of the work. In respect of the ecological balance, Contractor shall observe the following instructions.
 - i) Where unnecessary destruction, scarring, damage or defacing may occur, as result of the operation, the same shall be repaired replanted or otherwise corrected at the contractor's expense. The contractor shall adopt precautions when using explosives, which will prevent scattering of rocks or other debris outside the work area. All work area including borrow areas shall be smoothed and graded in a manner to conform to the natural appearances of the landscape as directed by the Engineer-in-Charge.
 - ii) All trees and shrubbery which are not specifically required to be cleared or removed for construction purposes shall be preserved and shall be protected from any damage that may be caused by the contractor's construction operation and equipment. The removal of trees and shrubs will be permitted only after prior approval by the Engineer-in-Charge. Special care shall be exercised where trees or shrubs are exposed to injuries by construction equipment, blasting, excavating, dumping, chemical damage or other operation and the contractor shall adequately protect such trees by use of protective barriers or other methods approval by the Engineer-in-Charge. Trees shall not be used for anchorages. The contractor shall be responsible for injuries to trees and shrubs caused by his operations. The term "injury" shall include, without limitation bruising, scarring, tearing and breaking of roots, trunks or branches. All injured trees and shrubs be restored as nearly as practicable without delay to their original condition at the contractor's expense.
 - (iii) The contractor's construction activities shall be performed by methods that will present entrance or accidental spillage of solid matter contaminants, debris and other objectionable pollutants and wastage into river. Such pollutant and waste include earth and earth products, garbage, cement concrete, sewage effluent, industrial wastes, radioactive substances, mercury, oil and other petroleum products, aggregate processing, mineral salts and thermal pollution. Pollutants and wastes shall be disposed off in a manner and at sites approved by the Engineer-in-Charge.
 - (iv) In conduct of construction activities and operation of equipments the contractor shall utilize such practicable methods and devices as are reasonably available to control, prevent and otherwise minimize the air pollution. The excessive omission of dust in to the atmosphere will not be permitted during the manufacture, handling and storage of concrete aggregates and the contractor shall use such methods and equipment as a necessary for collection and disposal or prevention of dust during these operation. The contractor's methods of storing and handling cement shall also include means of eliminating atmospheric discharges of dust, equipment and vehicles that give objectionable omission of exhaust gases shall not be operated. Burning of materials resulting from clearing of trees, bushes, combustible construction materials and rubbish may be permitted only when atmospheric conditions for burning are considered favourable.

- b) Separate payment will not be made for complying with the provisions of this clause and all cost shall be deemed to have been included in the unit rates and prices included in the contract if any provision is not complied with within a reasonable time even after issue of a notice in this respect, the necessary operations would be carried out by the Engineer-in-Charge at the cost of the Contractor, Orders of the Engineer-in-Charge in this respect would be final and binding on the contractor.

91 Preservation of existing vegetation:

- a) The contractor will preserve and protect all existing vegetation such as trees, on or adjacent to the site which do not unreasonably interfere with the construction as may be determined by the Engineer-in-Charge. The contractor will be held responsible for all unauthorized cutting or damage of trees, including damage due to careless operation of equipment, stockpiling of materials or trekking of grass areas by equipment. Care shall be taken by the Contractor in felling trees authorized for removal to avoid any unnecessary damages to vegetation and trees that are to remain in place and to structures under construction or in existence and to workmen.
- b) All the produce from such cutting of trees by the contractor shall remain the property of Government and shall be properly stacked at site, approved by the Engineer-in-Charge. No payment whatsoever, shall be made for such cutting and its stacking by the Contractor. If any produce from such cutting is not handed over to the Government by the contractor, he shall be charged for the same at the rates to be decided by the Engineer-in-Charge. The recovery of this amount shall be made in full from the intermediate bill that follows.
- c) The contractor shall also make arrangements of fuel deposits for supply of required fuel for the labourer to be employed for cooking purpose at his own cost in order to prevent destruction of vegetation growth in the surrounding area of the work site.

92 Possession prior to completion:

The Engineer-in-charge shall have the right to take possession of or use any completed part of work or works or any part there of under construction either temporarily or permanently. Such possession or use shall not be deemed as an acceptance of any work either completed or not completed in accordance with the contract with in the interest of Clause 28 of APSS except where expressly otherwise specified by the Engineer-in-charge.

93 Payment upon termination:

If the contract is terminated because of a fundamental breach of contract by the contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payment received upon the date of the issue of the certificate and less the percentage to apply to the work not completed as indicated in the contract data. Additional liquidated damages shall not apply. If the total amount due to the Department exceeds any payment due to the contractor the difference shall be a debt payable to the Department. In case of default for payment within 28 days from the date of issue of notice to the above effect, the contractor shall be liable to pay interest at 12% per annum for the period of delay.

94 Access to the contractor's books:

Whenever it is considered necessary by the Engineer-in-Charge to ascertain the actual cost of execution of any particular extra item of work or supply of the plant or material on which advance is to be made or of extra items or claims, he shall direct the contractor to produce the relevant documents such as payrolls, records of personnel, invoices of materials and any or all data relevant to the item or necessary to determine its cost etc. and the contractor shall when so required furnish all information pertaining to the aforesaid items in the mode and manner that may be specified by the Engineer-in-Charge.

95 Drawing to be kept at site:

One copy of the drawings furnished to the contractor shall be kept by the contractor on the site and the same shall at all reasonable time be available for inspection and use by the Engineer-in-Charge and the Engineer-in-Charge's representative and by any other persons authorized by the Engineer-in-Charge in writing.

96 B.I.S. [I.S.I.] books and APSS to be kept at site:

A complete set of Indian Standard specification referred to in "Technical Specifications" and A.P.S.S. shall be kept at site for reference.

97 Site Order Book:

An order book shall be kept at the site of the work. As far as possible, all orders regarding the work are to be entered in this book. All entries shall be signed and dated by the Department Officer in direct charge of the work and by the contractor or by his representative. In important cases, the Executive Engineer or the Superintending Engineer will countersign the entries, which have been made. The order book shall not be removed from the work, except with the written permission of the Executive Engineer.

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98 Variations by way of modification, omissions or additions:

For all modifications, omissions from or additions to the drawings and specifications, the Executive Engineer will issue revised plans, or written instructions, or both and no modification, omission or addition shall be made unless so authorized and directed by the Executive Engineer in writing.

The Executive Engineer shall have the privilege of ordering modifications, omission or additions at any time before the completion of the work and such orders shall not operate to annul those portions of the specifications with which said changes do not conflict.

Engineer-in-Charge's Decision:

It shall be accepted as in separable part of the contract that in matters regarding materials, workmanship, removal of improper work, interpretation of the contract drawings and contract specification, mode of the procedure and the carrying out of the work, the decision of the Engineer-in-Charge, which shall be given in writing shall be binding on the contractor.

99 Care and diversion of river/stream:

The contractor shall submit details regarding the diversion and care of river or stream during construction of the work along with a separate print-out of the time table showing earliest and latest start and finish dates of various activities. He should submit a detailed layout plan with drawings for the diversion and care of river during construction of work. The above arrangements shall be at contractor's cost.

100 Income tax:

- a. During the currency of the contract deduction of income tax at 2.00% + Surcharge as in force shall be made from the gross value of each bill of the contract, the contract value of which is in excess of Rs.20,000/- for deduction of tax at rates lower than 2.00% procedure stipulated under section 194-C(4) of Income Tax Act, 1961 shall be followed. **Further Education cess at 2% on I.T shall also be deducted in the bills and the same shall be submitted to the Government.** and second higher education cess @ 1% shall be deducted on the gross value of the work
- b. Income Tax clearance certificate should be furnished before the payment of final bill. Other wise final payment will be with held. The contractor's staff, personnel and labour will be liable to pay personnel income taxes in respect of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws and regulations.
- c) The tenderer/Contractor is advised to register with commercial tax department if not registered already
- d) Further construction workers welfare cess @ 1% shall be deducted on the gross value of the work

101. Value Added Tax Condition (Work Contract)

101.1 The D-VAT (Works Contract) as applicable shall be deducted as source as per rules and the reimbursement will be made as per admissible rules. However, reimbursement shall not exceed the deduction made towards D-VAT(Works Contract)

101.2 A copy VAT registration certificate shall be produced along with tender for all the contracts

102 The Contractor should produce a valid sales Tax clearance certificate before the payment of the final bill, other wise payment to the contractor will be withheld

103. Supply of construction materials:

- i) The contractor has to make his own arrangements for procurements, supply and use of construction materials.
- ii) All materials so procured should confirm to the relevant specifications indicated in the bidding documents.
- iii) The contractor shall follow all regulations of the Department/Government of India in respect of import licenses etc., of the procurement of the materials is through imports and he shall be responsible for the payment of applicable duties and taxes, port clearances, inland transportation etc.
- iv) The contractor shall make his own arrangements for adequate storage of the materials.

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- 104 The tenderer should work out his percentage without reference being made to the Public Works Department current schedule of rates or to the estimate rates.
- 105 Once the contractor buys the tender schedules, he will not be permitted to return the tender schedules. He has to compulsorily submit his tender duly fulfilling all the tender conditions after buying the tender schedules. If a contractor does not tender for the work, his / their EMD shall be forfeited (DD or Bank Guarantee or Both).
- 106 The TTD reserves the right to engage the services of the consultants during the course of the work, for Engineering or Architectural services and the contractor is bound to carryout such instructions as may be given by consultants from time to time.
- 107 Preliminary specifications of APSS shall apply to all agreements entered by the contractor with an inseparable condition of the contract. The tenderer is expected to examine closely the relevant specifications of the APSS and the special specifications of ISS before submitting the unit tender rates
- 108 All the items of work including materials and workmanship should be executed as per relevant A.P.D.S.S. and I.S.I. code. If there are any variation between the above two specifications, the decision of the Executive Engineer is final and binding on the contract.
- 109 Scaffolding and gangways will have to be arranged by the contractor at his own whenever they are considered desirable or necessary by the Engineer-in-Charge of the work to facilitate the work.
- 110 PATENT RIGHT: In the event of any claim or demand being made or action being brought against the TTD for infringement of letter of patent, registration for infringement of design or trade mark in respect of any machines, plant, work materials or things or method of using or working of such machine, plant work materials or things belonging to the contractor shall indemnify the owner against all costs and expenses arising from or incurred by reason of any such claim provided that the owner shall notify the contractor immediately any claim is made and that the contractor shall be at liberty, if he so desires with the assistance of the owner if required but at the contractor's expenses, to conduct all negotiations for the settlement of same or any litigation that may arise there from and provided that no such machine, plant, works materials or things shall be used by the owner for any purpose or any manner other than that for which they have been supplied by the contractor and specified under his contract.
- 111 ASSISTANCE IN PROCUREMENT OF PROPERTIES, PERMITS, LICENCES OR OTHER FACILITIES ETC:
- 112 The Engineer in charge of work on request by the contractor will if in his opinion the request is reasonable and is in the interest of the work and its progress assist the contractor in procurement of necessary licenses for obtaining necessary plant machinery or materials not available locally.
- 113 The TTD will also assist the contractor in securing priorities for deliveries transport etc., where such are needed. The TTD will not however be responsible for the non-availability of any of the above facilities or delay in this behalf and for claims either in cost or time on account of such failures or delays and the contractor is not entitled for any claim against the owner.
- 114 In case of contradiction between the clauses included in this specification and the clauses of PS to APSS, the former will prevail over the latter and is binding on the tenderer.

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TECHNICAL SPECIFICATIONS

[TO BE INCORPORATED AS PER REQUIREMENT OF THE WORK PUT TO TENDER DULY QUOTING THE RELEVANT SPECIFICATION NUMBER OF APSS. BSI Code No. , MORTH, etc. STANDARD SPECIFICATION NO.]

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CONDITION FOR PROCUREMENT OF CEMENT AND STEEL REQUIRED FOR WORKS**1. CEMENT:****General**

The Contractor has to make his own arrangements for the procurement of Cement of required for works subject to the following conditions:-

- a) The Contractors shall procure bulk cement required for the works only from reputed cement factories (a) Priya Cement, (b) India Cements, (c) Andhra Cements, (d) Penna Cements, (e) Zuari Cements, (f) CCI Cements, (g) Ramco Cements, (h) L&T Cements, (I) Birla Cements (Main producers) acceptable to the Engineer in-charge. The contractor shall be required to furnish to the Engineer in-charge bills of payment and test certificates issued by the manufacturers to authenticate procurement of quality cement from the approved cement factory. The contractor shall transport it in pressurized cement hailers. The hailers shall have to collect duplicate gate pass from the factory from the quality of cement received for each trip of cement hailers. One copy of gate pass shall be handed over to the Engineer in-charge. The contractor shall make their own arrangement for adequate storage of cement.
 - b) The contractor shall procure O.P. Cement of 43 grade in standard packing of 50 kg per bag from the authorized manufacturers/ authorised dealers. The contractor shall make necessary arrangement, at his own cost, to the satisfaction of the Executive Engineer, for actual weighment of random sample from the available stock and shall confirm with the specification laid down by the Bureau of Indian standards or other standard institutions as the case may be. Cement shall be got tested for all the tests as directed by the Executive Engineer, at least once in a month, in advance, before the use of cement bags brought and kept at site go-down. Cement bags required for testing shall be supplied by the contractor at free of cost.
 - c) The contractor should store the cement of 60 days requirement at least one month in advance to ensure the quality of cement so brought to site and shall not remove the same without the written permission of the Executive Engineer. The contractor shall forthwith remove from the works area any cement that the Engineer in-charge may disallow for use on account of failure to meet with required quality and standard.
 - d) The contractor will have to construct sheds for storing cement having capacity, not less than the cement required for 90 days use, at appropriate locations at the work site. The Engineer in-charge or the representatives shall have free access to such stores at all times.
 - e) The contractors, shall, further at all times satisfy the Engineer in-charge, on demand, by production of records and books or by submission of returns and other proofs as directed, that the cement is being used as tests and approved by Executive Engineer for the purpose and the contractor shall at all times, Keep his records up to date to enable the Engineer in-charge to apply such checks as he may desire.
 - f) Cement which has been unduly long in storage with the contractor or alternatively has deteriorated due to inadequate storage and thus become unfit for use on the work shall be rejected by the department and no claims will be entertained. The contractor shall forthwith remove from the work area any cement the Executive Engineer may disallow for use on work and replace it by cement complying with the relevant Indian standards.
- A) STORAGE OF CEMENT:
- 1) Is often necessary to store Portland cement, some times for a period of months. This is particularly true when transportation inclusions must be used to their capacity and deliveries.
 - 2) Portland Cement readily absorbs moisture not only in the form of free water but also moisture from the atmosphere or from damp materials in contact with it and become hydrated and loses strength. It is necessary therefore that it should be protected from absorption of moisture before is used, if it is to fulfill its functions. An absorption of one or two percent of water has no appreciable effect but further amounts of absorption, results in hardening of the cement and reduces the strength. If the absorption exceeds 5%, the cement is for all ordinary purposes, ruined, finally ground cement stored in stacks tend to deteriorate more than coarse cement. In this respect normal hardening Portland cement and high alumina cements are least effected than rapid hardening Portland cement.
 - 3) American, Spanish and German experiments have shown that on average the strength of cement strength in bags is reduced as follows:-
After 3 months by 15 to 20 percent.
After 6 months by 20 to 30 percent
After 12 months by 30 to 50 percent
After 2 years by 40 to 50 percent
After 4 ½ Years by 50 to 60 percent
 - 4) These figures prove that special attention should be paid to the storage of cement even when its strength is equal to or suspense's the specified normal strength.
 - 5) With an extensive range of climate conditions it is difficult to lay down universal rules for the storage of cement but the general principle should always be kept in mind that it must be protected as far as possible from any form of moisture, prior to mixing it for making concrete mortar.

- 6) During the dry weather, is main part of the country, where the relative humidity of the atmosphere even in nights is low (that is to say when there is very little moisture in the air) little or no protection may be necessary and the cement in its stock may require no more than a tarpaulin through for the stack. Country particularly near the coast where the atmosphere is always damp at any time of day or night and then grater precautions are necessary. In place such as the west coast and the Nilguries and period when heavy rain falls are encountered such grater care has to be taken of the cement and proper strength provided it from the damp.
- 7) Whenever there is any possibility of the cement exposed to moisture either in the atmosphere or actual rate. It should be stored in a well constructed dry godown or shed. The Cement more should be whether right construction preferable with terraced roofing with a sound wooden or ground to ensure that it is damp building with plant roofing the prohibited because of their tendency to leak. Corrugated sheets roofing has tendency to the condense moisture and should be protected by field to prevent wind and rain driving through cement should not be placed directly on cement plaster flooring and other types of flooring commonly meant with which are not damp proof. A wooden platform or false floor a sheet of waterproof paper should be provided.
- 8) If none of these is possible than floor should be covered with straw, hay, cinder or ash or such other material Densely and uniformly packed to a thickness of at least one inch and over a laid worth tarpaulins or old cement bags. Windows and ventilator if any should be slightly shut to prevent free circulation of air and inside the stores. Drainage should be provided if necessary to prevent accumulation of water in the vicinity of the store.
- 9) Cement should be stored in piles arranged parallel to the walls. If in-advisable to pile bags against the walls and an allowance of at least 0.3M all round should be made between the exterior walls piles at least 0.6M wide should be left for each access and delivery. The outside stacks deterior a similar pile. Successive consignments covered with some water proof cover as a both measure of protection and prevent the free circulation of air as each lot of proper fresh air will bring in more moisture. Once the cement has been properly stored should not be disturbed until it is to be used. There is no advantage in moving and stacking the bags to reduce where house set as this practice only exposes fresh cement to the air resulting in loss due to the shifting of cement through the cloth mesh and in damage to the stacks.
- 10) Cement required for use immediately after delivery to the site may be stored in the open on a raised damp proof floor so long as it is fully protected by tarpaulin or either weather resisting covers. Storage under these conditions should be limited to 48 hours. The tarpaulin should be raised well above the top most Tie of bags and must be sloped for rapid drainage in case of showers.
- 11) The storage place required for a given quantity of cement can be calculated from the following data. If spread losses over the floor of a store to a depth of 1st floor a ton of cement required about 2.40 Sq.M. If stored in paper bags on their side the area required is 5.00 Sq.M to 6.00 Sq.M. per ton. If laid on more than one tier. If the bags are stacked in any other manner feet portion the minimum area provided should be increased to allow space for passengers etc., to avoid house set in any case not more than 15 bags. If stacked higher than this the pressure on the bottom bags is liable to burst at or form clad in damp water, apart from handling difficulties because of their eight.
- 12) Consignments should be used in the same sequences as they are delivered. To ensure this, the date of arrival of each consignment should be clearly indicated. This is best one by trying a place of country twins or cord to the end bags in the bottom most tier of the day pile, tacking the two places of card up the sides and along the top pile on tying the main the center. The date of receipt in the store being clearly written on an bin card high from the card. Dead storage where the cement remains in place for a long time which other consignments of cement come in and out should be avoided.
- 13) While issuing cement from a store the cement bags should be removed in vertical column of the pile and not horizontal so as to avoid dead storage space.
- 14) As a rule cement should not be stored longer than three months and if time is exceeded the material should be re-tested being needed. Especially in the rainy season prolonged storage should be avoided. If stock is likely to be held over more then three months anticipatory measures should be taken to use it on the works.
- 15) Cement that has become supply due to storage in damp positions due to exposure to the weather is generally useless for making concrete and should be remove from the site. Air set lumps that can be broken down to floor with the places. If such lumps are in numerous. It is easier to screen them out and discord them if the protection of air cement is considerable. The fine material after screening should be tested to determine whether it has become detective.
- 16) The Cement in bags is stored in high piles for long periods. There is often a slight tendency in the lower layers to harden, caused by the pressure above this is known as warehouse set. Cement in this condition, on every wet not for service and can be reconditioned by letting each drop on a solid surface for using the cement contained.

2) STEEL REINFORCEMENT:General

- a). The section covers specifications for providing steel reinforcement to the works and the contractor has to make his own arrangements for the procurement of tested mild steel and H.Y.S.D Bars required for the work only from the reputed manufactures i.e., SAIL, VSP, TATA as approved by the Engineer. Necessary I.S.I. test certificates are to be produced to Engineer before use on work. Steel bars shall be stored in such a way as to avoid distortion and to prevent deterioration by corrosion. He shall make his own arrangements for transportation and storage.
- b). High yield strength deformed bars shall conform to I.S:1786-1985.
The diameter and weight of plain and HYSD Steel bars shall be as follows.

Sl.No	Diameter of Rod.	Sectional weight in Kilogram per running meter both for M.S. and HYSD Steel.
1.	6 Millie meters	0.22
2.	8 Millie meters	0.39
3.	10 Millie meters	0.62
4.	12 Millie meters	0.89
5.	14 Millie meters	01.21
6.	16 Millie meters	1.58
7.	18 Millie meters	2.00
8.	20 Millie meters	2.47
9.	22 Millie meters	2.98
10.	25 Millie meters	3.85
11.	28 Millie meters	4.83
12.	32 Millie meters	6.31
13.	33 Millie meters	6.71
14.	36 Millie meters	7.99
15.	40 Millie meters	9.86
16.	42 Millie meters	10.88

Note:-- If any rods other than those specified above are used, the weights shall be as per standard steel tables.

This work shall consist of furnishing and placing reinforcement of the shape and dimensions shown on the drawings and as specified in the specifications, including cutting, bending, cleaning, welding, placing, binding and fixing in position. list of related IS codes.

IS: 456-1978/2000	Code of practice for plain and reinforced concrete
IS:1786-1985	Specification for High strength deformed steel bars and wires for concrete reinforcement.
IS: 432-1982	specifications for mild steel and medium tensile steel bars
(PART-I)	for concrete reinforcement and hard drawn steel wire.
IS:280-1978	Mild steel wire for general engineering purposes
IS:2502-1963	Code of practice for bending and fixing of bars for concrete reinforcement
IS:9417-1989	Recommendations for welding cold worked bars for reinforced concrete construction.
IS:2751-1979	Welding of mild steel plain and deformed bars for reinforced construction.
IS:814-1991	Covered electrodes for manual metal arc welding of carbon and carbon manganese steel
IS:1278-1972	Filer rods and wires and gas welding.

In addition to the above Indian Standard codes, the specifications of APSS and manuals for quality control and inspection shall also be complied with.

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2.1 Materials

- I.
 - a. Steel shall be clean and free from loose rust of loose mill scale at the time of fixing in position and subsequent concreting.
 - b. The contractor shall procure high yield strength deformed bars, conforming to IS:1786-1985; other steel bars conforming to IS:432-1982 shall be used as per the directions of the Engineer in writing.
 - c. The reinforcement bars used by the contractor shall be in accordance with the section 5.1

II. Cutting, Bending and binding of reinforcement:

- a. Reinforcing steel shall conform accurately to the dimensions given in the bar bending schedules shown on relevant drawings.
- b. Bars shall be bent cold to the specified shape and dimensions by a bar bender by hand or power to attain proper radii of bends as shown in drawings or as directed by the engineer.
- c. Bars shall not be bent or straightened in a manner that will injure the materials.
- d. Bars bent during the transport or handling shall be straightened before being used on work, they shall not be heated to facilitate bending.
- e. "U" type hooks shall invariably be provided at the end of each bar, if specified in drawing or ordered by the Engineer. The radius of the bend shall not be less than twice the diameter of round bar and the length of the straight part of the bar beyond the end of the curve shall be at-least four times the diameter of the round bar. In the case of bars which are not round and in the case of deformed bars, the diameter shall be taken as the diameter of a circle having as equivalent effective area.
- f. The hook shall be taken as the encased to prevent any splitting of the concrete.

2.2. Placing of reinforcement

- a. Before the reinforcement is placed, the surface of the bars and the surface any metal bar supports shall be cleaned of the rust, loose mill scale, dirt, grease and other objectionable foreign substances
- b. All reinforcing bars shall be accurately placed in exact position shown on the drawing, and shall be securely held in position during placing of concrete by annealed binding wire, and by using stays, blocks or metal chairs, spacers, metal hangers, Supporting wires or other approved devices at sufficiently close intervals.
- c. Wire for binding reinforcement shall be soft and annealed mild steel of 16 SWG and shall conform to IS:280-1978. Binding wire shall have tensile strength of not less than 5600 Kg/Cm^2 and a yield point of less than 3850 Kg/Cm^2 .
- d. Bars shall not be allowed to sag between supports. They shall not be displaced during concreting or any other operation over the work.
- e. The contractor shall also ensure that there is no disturbance caused to the reinforcing bars already placed in concrete.
- f. All devices used for positioning shall be of non-corrodible material. Metal supports shall not extend to the surface of the concrete, except where shown on the drawings. pieces of broken stone or brick or wooden blocks shall not be used. Where portions of such supports will be exposed on concrete surfaces designated to receive F2 or F3 finish, the exposed portion of support shall be galvanized or coated with other corrosion resistant material without which the concreting will not be permitted. Such supports shall not be exposed on surfaces designated to receive F4 finish unless otherwise shown on the drawings.
- g. Placing on layers of freshly laid concrete as work progresses for adjusting bar spacing shall not be allowed.
- h. Layers of bars shall be separated by spacer bars, pre-cast blocks or other approved devices.
- i. Reinforcement after being placed in position shall be maintained in a clean condition until completely embedded in concrete. Special care shall be taken to prevent any displacement of reinforcement in concrete already placed.
- j. To protect reinforcement from corrosion, concrete cover shall be provided as indicated on the drawings. All bars protruding from concrete and to which other bars are to be spliced and which are likely to be exposed for an indefinite period shall be protected by a thick coat of neat cement grout.
- k. Bars crossing each other, where required, shall be secured by binding wire (annealed) of size not less than 1mm dia and conforming to IS:280-1978 in such a manner that they do not slip over each other at the time of fixing and concreting.

- l. As far as possible, bars of full length shall be used. In case this is not possible, overlapping of bars shall be done as directed by engineer. When practicable, overlapping bars shall not touch each other, but be kept apart by 25 mm or $1 \frac{1}{4}$ times the maximum size of the coarse aggregate whichever is greater, by concrete between them. Where not feasible, overlapping bars shall be bound with annealed steel wire, not less than 1 mm thickness twisted tight. The overlaps shall be staggered for different bars and located at points, along the span where neither shear nor bending moment is maximum.
- m. The minimum allowable clearance between parallel round bars shall not be less than $1 \frac{1}{2}$ times the diameter of the large bars and for square bars shall not be less than twice the side dimensions of the larger bars of $1 \frac{1}{2}$ times the maximum size of aggregate which ever is greater.
- n. Dissimilar diameter rods should not be joined together.

2.3 Splicing

- a. Where it is necessary to splice reinforcement the splices shall be made by lapping, by welding or by mechanical means.

When permitted or specified on the drawings, joints of reinforcement bars shall be butt welded so as to transmit their full strength. Welding of bars shall be done as directed by the Engineer and conforming with requirements of clause 11.4 of IS:456-1978

If it is proposed to use welded splices in reinforcing bars, the equipment, the material and all welding and testing procedures shall be subject to the approval of the Engineer. The Contractor shall also carryout test welds as required by the Engineer. No extra rate will be paid for welding reinforcement, test-welds, as bid rate in bill of quantities is inclusive of this item.

For welded splices for reinforcing bars conforming to IS:1786-1985, welding shall be done in accordance with IS:9417-1979. For reinforcing bars conforming to IS 432 (Part-I)-1982, welding shall be done in accordance with IS:2751-1979. Electrodes for manual metal arc welding shall conform to IS:814(Part-I) - 1974 and IS 814 (Part-II)-1974. Mild steel filler rods for Oxy-acetylene welding shall conform to IS:1278-1972, provided they are capable of giving a minimum butt weld tensile strength of 41 Kg/mm^2 .

Only electric Arc welding using a process, which excludes air from the molten metal and conforms to any or all other special provisions for the work shall be accepted. Suitable means shall be provided for holding the bars securely in position during welding. It must be ensured that no voids are left in welding and when welding is done in two or three steps, previous surfaces shall be cleaned well. Ends of bars shall be cleaned off all Iron scale, rust, grease, paint and other foreign matter before welding.

- b. Reinforcing bars of 28 mm in diameter and larger may be connected by butt welding provided that lapped splices will be permitted if found to be more practical than butt welding and if lapping does not encroach on cover limitation or hinder concrete or reinforcement placing.
- c. Reinforcing bars of 25 mm in diameter and less may be either lapped or butt-welded, which ever is the most practicable.

Butt -welding of reinforcing bars shall be performed either by the gas pressure welding process or by the electric arc methods under cover from weather.

Welded pieces of reinforcement shall be tested at the rate of 0.5% of total number of joints welded. Specimen shall be taken from the actual site of work. Strength of the weld provided shall be at least 25% higher than the strength of bars.

- d. Welded joints or splices shall preferably be located at points where steel will not be subject to more than 75% of the maximum permissible stresses and welds so staggered that at any section not more than 20% of rods are welded. Approval of such additional splices will generally be restricted to splices not closer than 8 metres in horizontal bars or 4 metres in vertical bars measured between mild point of laps.

2.4 Coupling of bars

- a. Wherever indicated on the drawings or desired by the Engineer to use mechanical couplings of reinforcing bars, bars shall be joined by couplings which shall have a cross section sufficient to transmit the full strength of bars. The ends of bars that are joined by couplings shall be upset for sufficient length, so that effective cross-section at the base of treads is not less than the normal cross-section of the bars. The threads shall be standard whit worth threads. Steel for couplings shall conform to IS:226. the contractor shall submit samples of the proposed coupling to the Engineer for approval not less than 60 days prior to their proposed use.

2.5 Care of placed reinforcement and concrete.

Where reinforcement bars are bent aside at construction joints and afterwards bent back into their original position, care shall be taken to ensure that at no time the radius of the bend is less than $6 \times$ diameter for plain mild steel bars. Care shall also be taken, when bending such that the concrete around the bars is not damaged.

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2.6 Tolerances

As specified in clause 11.3 of IS:456-1978 unless otherwise specified by the Engineer reinforcement shall be placed within the following tolerances.

- | | | |
|-----|--------------------------------------|----------|
| i. | For effective depth 200 mm or less | =+ 10 mm |
| ii. | For effective depth more than 200 mm | =+15 mm |

The cover shall in no case be reduced by more than one third of specified cover of 5 mm which ever is less.

2.7 Dowels

- The dowels shall be of the same HYSD bars of grade Fe415 conforming to IS:1786-1985 as used for reinforcement.
- Details for dowels shall be as shown on the drawings or as directed by the Engineer.
- Dowels shall be placed in the concrete where shown on the drawings or where directed and will be inspected for compliance with requirements as to size, shape, length, position and amount after they have been placed, but before being covered by concrete.
- Before the dowels are embedded in concrete, the surfaces of dowels shall be cleaned of all dirt, grease or other foreign substances which in the opinion of the Engineer are objectionable.
- The dowels shall be accurately placed and secured in position so that they will not be displaced during the placing of the concrete.

2.8 Measurement and payment

a. Measurement:

Measurement for payment, for furnishing and placing reinforcing bars will be made only on the calculated weight of the bars placed in concrete, in accordance with the drawings or as directed by the engineer.

The calculated weight for reinforcing bars shall be determined as follows:

- Reinforcement shall be measured in length separately for different diameters as actually used in the work including overlaps. Lengths shall include hooks at ends, overlaps, couplings, welded joints, spacer bars, and dowels.
- From the length measured, weight of reinforcing bars shall be calculated on the basis of weights specified in the table in this section.
- Wastage and annealed steel wire for binding shall not be measured and the cost of these items shall be deemed to have been included in the rates for reinforcement.
- The unit for payment shall be one metric tonne weight of steel.
- No extra payment shall be made for the overlaps provided as the data is inclusive of wastage and overlaps. However the overlap shall be provided as per the requirement, as per BIS guidelines and structural drawings.

2.9 Payment rate

The bid rate in the bill of quantities for reinforcement shall include cost of steel, binding wire or welding materials at site of work, in cutting, bending, cleaning, placing, binding or welding and fixing in position as shown on the drawings and as directed by the Engineer. The unit rate shall also include cost of all wastage, binding wire or welding material and cost of all incidental operations necessary to complete the work as per specification.

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SPECIAL CONDITIONS FOR BUILDINGS**In addition to the conditions enclosed, the following conditions shall apply for building works.**

1. For foundation concrete and RCC works the concrete shall be machine mixed and shall be vibrated.
2. If at any time subsequent to the execution of a contract on a through rate basis, the contractor desires the issue to him, for the use on work of materials which exist in the departmental stocks, the supply where of by T.T.D was not provided for in the contract, the materials should not be issued except with the express authority of the Executive Engineer, who should specify in each case the rate to be charged for the materials inclusive of delivery at the place where they are stores. The rate charged should be the market rate prevailing at the time of the supply or the issue rate, whichever may be the greater, and should include the storage charges and no carriage or incidental charges should be borne by the department in connection with the supply.
3. All the water supply and sanitary connections are to be tested against leakage and satisfactory performance based on standard tests before they are fixed.
4. The furniture and fixtures and wind appliances for wood work should be of best quality available in the market, and should be got approved by the Executive Engineer before fixing. Otherwise they are liable to be rejected without assigning any reasons thereof.
5. For all wood/iron work a sample of each item i.e., frame with shutters complete should be prepared and got approved by the Executive Engineer before they are manufactured in full quantities and fixed in position.
6. The contractor shall be responsible for the correct setting out of all works, providing at his cost all labour, and materials required for the same. The contractor shall construct centerlines marking pillars and basement at all corners of the units at his own cost.
7. The contractor/FIRM should carry out all the required necessary tests as desired by the department, from the established laboratories as approved by the authorized Engineer from time to time.
8. Some of the tests will be done by the departments quality control wing in their laboratories and the specimens required for the tests should be given by the contractor/FIRM at his cost.
9. Concreting shall be carried out continuously up to construction joints, the designer shall predetermine the position and arrangement of the same.
10. Tests in connection with reinforced concrete construction may consist of:
 - a. Preliminary tests.
 - b. Works tests, and
 - c. Load tests of the structure, if required.
11. Concrete shall be composed of cement, Sand, and Coarse aggregate, water and any other admixture all well mixed and brought to the proper consistency. Tests on concrete shall be made at frequent intervals during the progress of the work and the mixes used shall be changed whenever necessary to secure the required strength, workability, density and impermeability, together with the maximum practicable economy.
12. The water-cement ratio will be regulated by the requirements of strength and durability based on the laboratory tests. The water content in the concrete shall take into account the type and the capacity of vibrating equipment and be also such as to product a mixture which can work readily into corners and angles of the forms in and around reinforcement bars with the methods of placing employed on the work but without permitting the materials to segregate or excess water to collect on surface.
13. To secure economy, the concrete should preferably contain the maximum size aggregates suitable for the places of use and giving the specified strengths in accordance with the direction of the Engineer-in-charge of works.
14. In case of ordinary concrete, preliminary tests may be carried out, if required by the competent authority, to ensure that the materials procured are suitable to produce concrete of the desired quality and strength. The concrete should be as per design mix to produce the required strength.

15. OTHER MATERIALS:

- a). **PARAFFIN WAX:** Commercially available (white in colour) shall be melted and applied over the plastered surface of the concrete by ordinary painting brush.
- b). **MOULD OIL:** The de-debonding agent to be applied just before concreting shall be standard shuttering oil, engine oil or filtered waste oil (Carbon particles and impurities should not be present), as this will involve cleaning of the surface of the R.C.C. components.
- c). **INSERTS:** Inserts of fabricated mild steel or wooden block shall be buried in the precast concrete as directed during execution.

16. Conditions of Roof slabs:

- a) The RCC slab laid should be leak proof. After observing for one rainy season if the roof or floor is found to be leaky, or if there are any defects noticed after laying of roof, they must be attended to by the contractor at his own cost. Further the contractor must arrange to get the structure treated as per clause 21 of ISI code No. 456/1964 at his own cost on the instructions of the department.
- b). The contractor shall carry out when RCC slab is laid, the following tests at his own cost to prove that the slab is impervious.

After the centering is removed and curing period is over the slab shall be put to test by stagnating water of 15cms depth and watched carefully for a period not less than a week.

If leakage is observed, immediate action should be taken to rectify it by the contractor at his own cost and again test the same to see that there are no leakages.

- iii.) Officer observing the leakage test shall issue a certificate to this effect before final bill is made.

- c). The variation in thickness of RCC roof slab due to varying spans or special covering materials should not effect the general roof bed which should be uniform unless otherwise shown in drawing or as instructed.

For roof slab to be laid MS hooks have to be provided as directed by the department for fixing fans and lights etc., GI pipes or PVC pipes has to be provided as directed by the department in the masonry walls or concrete at the specified places for making electrical wiring.

For roof slabs water has to be stagnated for 15cms. Depth for one week to test the leakage if any. If there are any leakages the contractor has to rectify the same as directed by the department at the cost of the contractor. No payment will be made to the contractor on this account either for testing for rectifications thus carried out.

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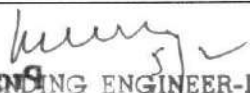
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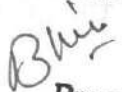
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ANNEXURE-III		
List of approved firms		
S.No.	Description	Name of the Firm/Trade Name
NOTE:	1. The Brands shown are for guidance only. 2. Preference shall be given to ISI marked products.	
I	A) Glazed Ceramic tiles-- Walls - IS:13753-1993	---- 1) Jhonson 2) Asian 3) Regency 4) Bell 5) Makson 6) Gold coin 7) Deco Gold 8) Orient 9) SOMANY 10) City tiles
	B) Ceramic tiles --Floors- IS: 13755-1993	1) Naveen 2) Regency 3) Jhonson 4) Asian 5) Orient 6) SOMANY 7) City tiles
	C) Anti skid tiles -Floor	1) Naveen 2) Regency 3) Jhonson 4) Asian
	D) Vitrified Tiles:	1) Marbito 2) Regency 3) Asian Granito (Rustic-Restile) 4) Murudeswar (Naveen) 5) Decolite (Granolite) 6) Johnson LTD (Marbonite) 7) Bell Granite (Marbo-granite) 8) SOMANY 9) City tiles
II	Water Proof Cement Paints.	
	Name of the Manufacturer	Brand name
	1. Berger Paints	---- Duro Cem Extra
	2. Asian Paints	---- Gattucem
	3. Shalimar	---- Maha Cem Coat
	4. Agsar paints	Agsar cem
	5. Coromandal Paints	---- CP Cem
	6. Snow Cem paints Pvt. Ltd.,	---- Snow Cem
	7. Snow White Industrial Corporation	---- Super Cem
	8. Apollo Paints	---- Aro Cem
	9. C.A.G. Industries	---- Delta Cem
	10. Limenaph Chemicals Pvt Ltd	---- Single Shot
	11. Nippon	
III	Synthetic Enamel Paints:	
	1. Berger	---- Luxol Hi-gloss, Rajdoot
	2. Asian paints	---- Apcolite premium Gloss
	3. Kansai Nerolac	---- Nerolac full gloss hard drying
	4. Shalimar	---- Superlac HI-gloss
	5. Addisons	---- Addisons Duraflex
	6. Coromandal paints	---- Corolux
	7. Berger Rajdoot	---- Supra Premium GLO hi-gloss.
	8. Nippon	---- NP9000
IV	Lime Powder	
		Surya Cem
		Janata Cem
	Limenaph Chemicals Pvt Ltd	J. Cote.
V	Acrylic Distemper	
	1. Berger	---- Bison Acrylic Distemper
	2. Asian paints	---- Tractor Acrylic Distemper

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	3. Kansai Nerolac Paints Limited		3. Nerolac Acrylic Distemper
	4. Shalimar	----	No.1 Premium Acrylic Distemper
	5. Coromandal paints	----	Corolite Acrylic Distemper
	6. Agsar	----	Agsar super Acrylic Distemper
VI	MATT FINISH		
	1. Snow Cem paints Pvt. Ltd.,	----	Sand Tex Matt
	2. Kansai Nerolac	----	Nero Tex
	3. Berger	----	Weather coat smooth & Tex premium exterior coating
	4. Appolo	----	Arotex
	5. Agsar	----	Micromatt
VII	ACRYLIC EMULSION EXTERIOR GRADE		
	1. Kansai Nerolac	----	Nerolac Exel
	2. Asian paints	----	Appex
	3. Berger	----	Wall masta
	4. Apollo	----	Aropex
	5. Agsar paint	----	Ranger
	6. Berger	----	Rangoli super Acrylic Emulsion (Interior)
	7. Nippon	----	Weatherbond, sumo
VIII	ACRYLIC EMULSION INTERIOR GRADE	----	
	1.Nippon	----	Satinglo, 3in 1, medifreshacrylic, matix.
IX	WATER SUPPLY ITEMS such as G.M.Wheel		
	Valves, Gate Valves, Ball Valves, Plug Cocks, Stop Cocks, Bib Cocks, Pillar Cocks Push Cocks, Shower Roses, etc.,	----	1.Leader 2.Zoloto 3 . Ark 4. Parry ware
X	WATER PROOFING COMPOUND	----	
	1. Impermo	----	
	2. Acco Proof	----	
	3. Surfa Seal	----	
	4. Algiproof	----	
	5. Cico	----	
	6. Algiproof		
XI	HARDWARE FITTINGS (Alluminium Anodized)		
	1.Yesses Anodizing Ind. Pvt. Ltd.	----	Jyoti
	2.Sri Shakthi Anodizing Ind.	----	Shakthi
XII	SANITARY WARE:		
	1. Parryware	----	
	2. Hindustan	----	
	3. Nycer	----	
	4.Cera	----	
XIII	Plain and Pre laminated particle boards of ISI make	----	
			NOVAPAN
		----	ECO
XIV	Plain & Pre laminated particle boards of ISI mark	----	BISON

LIST OF APPROVED BRANDS FOR ELECTRICAL WORKS

S. No	NAME OF MATERIALS	BRAND SPECIFICATION
1)	a) PVC Wiring wires	MERCURY - FINOLEX - ATLAS (G.S INDUSTRIES) - R.R KABEL - HAVELLS - POLYCAB - L&T
	b) F.R.L.S PVC wires	MERCURY - FINOLEX - R.R KABEL - POLYCAB (GRADE-A) - ATLAS - HAVELLS - L&T
	c) Hook up wire	MERCURY - DUROFLEX - ORBIT - MARDIA
2)	(a) PVC pipes & specials / Casing & Capping	MERCURY - FINOLEX - SUDHAKAR - POLYCAB - AVON PLAST (ISI) - MODI(ISI) - AKG(for Delhi works) - INDIAN TUBES - KUMAR
3)	Metal conduit pipe & specials	GUPTA - SUPREME - NAI - BHARAT - GB
4)	a) Flush Type accessories <u>ORDINARY</u> viz., switches, plugs, ceiling roses, bell pushes, T.V., Telephone accessories, bells, Buzzers.	ANCHOR - LEADER - GOLD MEDAL - RECORD - INDO ASIAN - TOYAMA - HAVELLS - MILLION - VIMAL - MARU
	b) Flush Type accessories - <u>MODULAR.</u>	ANCHOR - CLIPSAL - MK INDIA - TOYOMA - RECORD - HAVELLS - ABB - INDO ASIAN - LEGRAND - ANCHOR WOODS - MOSSIAC - CABTREE - GOLD MEDAL - VIMAL - NORTH WEST - MILLION - SIEMEN DELTA VEGA - SPECTRA METTALIC - WAVE / POINTER
5)	a) MINIATURE Circuit breakers, Isolators - M.S Distribution boards Metal plug units etc., up to 100 Amps	HAVELLS - L&T - SIEMENS - PROTEC (Schneider) - ABB - MERLINGERIN - LEGRAND - BHARTIA CUTLER HAMMER - MDS LEGRAND - GE - L&T (HAGER) - C&S - HPL
	b) Earth Leakage Circuit Breakers	LEGRAND - INDO ASIAN - SIEMENS - L&T - GE - HPL
6)	<u>SWITCHGEAR ITEMS:</u>	
	a) Iron clad switches	BOSMA - ANCHOR - ENGLISH ELECTRIC - ABB - L&T - GE - C&S - HAVELLS - HPL - CRYSTAL - MILTEC - SPUTNIK
	b) L.T Switch gear	ENGLISH ELECTRIC - L&T - SIEMENS - SCHNEIDER - HAVELLS - ABB - INDO ASIAN - BHARATIA CUTLER HAMMER - HPL - C&S
	c) Change over Switches	HAVELLS - BOSMA - BCH - ABB - INDO ASIAN - HPL (SOCOME) - GE - L&T - CRYSTAL
7)	Energy Meters	BHEL - ECE - GEC - HAVELLS - CAPITAL - ANCHOR - INDIA METERS - BCH - HPL
8)	<u>INSULATION TAPE ROLLS:</u>	
	a) Black tape rolls	BLUE RIBBON - JHONSON & JHONSON - MILLION
	b) PVC tape rolls	STEEL GRIP - MIRACLE - ANCHOR
9)	Electric water heaters	SPHERE HOT - ALMONARD - VENUS - BAJAJ - RACOLD - V.GURAD - USHA - AIRTEK
10)	Water coolers	VOLTAS - BLUE STAR - USHA
11)	Air conditioners	VOLTAS - BLUE STAR - CARRIER - L.G - VIDEOCON - O.GENERAL - HITACHI - DAIKIN - ONIDA
12)	<u>FANS:</u>	
	a) Ceiling fans with regulators	CROMPTON GREAVES - USHA - BAJAJ - ALMONARD - ORIENT - KHAITAN - POLAR - HAVELLS
	b) Wall mounting fan / Table fan	RALLIS - CROMPTON GREAVES - ALMONARD - USHA - KHAITAN - POLAR - BAJAJ - HAVELLS - AIRTEK
	c) Air circulator	CROMPTON GREAVES - ALMONARD - KHAITAN - POLAR - BAJAJ - HAVELLS - AIRTEK
	d) Exhaust fan	ALMONARD - CROMPTON GREAVES - BAJAJ - USHA - KHAITAN - POLAR - HAVELLS - AIRTEK
	e) Pedestal fan	CROMPTON GREAVES - RALLIS - ALMONARD - USHA - KHAITAN - POLAR - HAVELLS - BAJAJ - AIRTEK
13)	<u>FIXTURES (Tube Light / St. lights)</u>	
	a) Tube light fixtures	PHILIPS - RAYMOLD - K.LITE - BAJAJ - WIPRO - HAVELLS - CROMPTON GREAVES - ASIAN - GE - FIXOLITE
	b) Street light fixtures (Fluorescent / and all discharge lamp fixture)/ CFL Lamp fixtures	PHILIPS - BAJAJ - CROMPTON GREAVES - KESELEC - HAVELLS - ASIAN - WIPRO - GE - K.LITE
	c) Post top lanterns / Decorative garden lights / Luminaries /	PHILIPS - BAJAJ - K.LITE - HAVELLS - WIPRO - GE - CG - ASIAN - RAYMOLD
14)	Flood lights / Halogen lights	PHILIPS - WIPRO - BAJAJ - HAVELLS - GE - CG
15)	Decorative lighting luminaries (Glass / Crystal type)	KAPOOR - PHILIPS - RAYMOLD - HAVELLS - WIPRO - K.LITE - BAJAJ
16)	Chandeliers / Crystal lights	KAPOOR - K.LITE
17)	High mast lights	PHILIPS - BAJAJ - CG - GE
18)	<u>LAMPS</u>	
	a) Fluorescent Lamps, Discharge lamps (MV / SV / MH & Halogen) Ordinary filament (B.C & S C) Lamps	PHILIPS - BAJAJ - OSRAM - WIPRO - CROMPTON GREAVES - HAVELLS - INDO ASIAN - PIONEER (SV) - CAPART (MH)
	b) Decorative colour lamps	PHILIPS - CEMA - BAJAJ - CG - WIPRO

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	c) Miniature lamps (screw cap / Bipin) i) 12 V lamps / 6.2V lamps	LUMINA
19)	LIGHTING FIXTURES ACCESSORIES: a) Chokes / Ballast (copper wound)	PHILIPS - ANCHOR - BAJAJ - BJB - VOSSLOH - ASIAN - HAVELLS - SAITECH - WIPRO - CROMPTON GREAVES - GE
	b) Tube light holders	PHILIPS - ANCHOR - BAJAJ - BJB - VOSSLOH - ASIAN - HAVELLS - SAITECH - WIPRO - CROMPTON GREAVES - GE
	c) Starter base	PHILIPS - ANCHOR - BAJAJ - BJB - VOSSLOH - ASIAN - HAVELLS - SAITECH - WIPRO - CROMPTON GREAVES - GE
	d) Starting coils	PHILIPS - ANCHOR - BAJAJ - BJB - VOSSLOH - ASIAN - HAVELLS - SAITECH - WIPRO - CROMPTON GREAVES - GE
	e) Electronic ballasts	PHILIPS - TRINIC - HAVELLS - BAJAJ - ASIAN ELECTRONICS - GE
	f) Ignitors for SV lamps / MH lamps	PHILIPS - BAJAJ - CG - GE - HAVELLS - WIPRO
20)	HOLDERS: a) Bakelite	ANCHOR - RECORD - LEADER
	b) Porcelain	BOSMA
	c) Brass	OKAY - KAY - ELLORA
21)	Distribution Transformers	ETE - ESSENAR - CROMPTON GREAVES - INDO.TECH - KIRLOSKAR - PETE
22)	CIRCUIT BREAKERS a) Air circuit breakers	ABB - ENGLISH ELECTRIC - SIEMENS - L&T - G.E - SCHNEIDER - BCH
	b) Oil circuit breakers	EASUN - MEI - SIEMENS - BCH
	c) Vacuum circuit breaker	SIEMENS - L&T - ENGLISH ELECTRIC - SCHNEIDER - BCH
	d) Moulded Case Circuit Breakers	ENGLISH ELECTRIC - L&T - SIEMENS - ABB - GE - C&S - SCHNEIDER - HAVELLS - BCH - INDO ASIAN - MDS - CRYSTAL
23)	UNDERGROUND CABLES: a) Aluminium / Copper conductor armoured / Un-armoured PVC insulated 1.1KV grade UG cables.	MERCURY - FINOLEX - HAVELLS - GLOSTER - POLYCAB - UNIVERSAL - KEI
	b) Aluminium / Copper conductor Armoured / Un-armoured PVC insulated 1.1KV grade FRLS / FRLH cables.	FINOLEX - KEI - MERCURY - HAVELLS - POLYCAB - UNIVERSAL
	c) XLPE HT UG Cable	NICCO - FINOLEX - GLOSTER - HAVELLS - KEI - POLYCAB (GRADE-A) - UNIVERSAL - POWERPLAST - PARAGON - UNICAB - SUNCAB
	d) Submersible cables	FINOLEX - MERCURY - HAVELLS - BCH
24)	HT / LT Insulators (Porcelain)	W.S.INSULATORS - BENGAL - OBLUM - JAYASREE
25)	Starters (for Motors)	KILBURN - MEX - MEI - L&T - SEIMENS - SCHNEIDER - BCH - ABB
26)	Voltage Stabilizers	V.GUARD - UNISTAB - BESTPOWER - SERVOMAX - EEC - KEELINE - REAL GUARD - UNI.TAB - ITL
27)	U.P.S	BEST POWER - POWER ONE - AMARARAJA - TECHSER - APC - NUMERIC - AAR BEE
28)	BATTERIES: a) Lead Acid batteries	EXIDE - AMCO - HI. POWER - PANASONIC
	b) Maintenance free batteries for UPS	EXIDE - PANASONIC - AMARAN
29)	Steel tubular poles / MS Pipes	TATA - APPOLLO - JINDAL - BOMBAY TUBES - LASMA - CHENNAI POLES - SENZO - KALINGA - BAJAJ
30)	Panel Meters, Protection Relays	ENERCON - PROK DV - MECO - AE
31)	Capacitors	NEPTUNE - BCH - DANDAPANI - CAPACO - VISA POWER - L&T - ABB - CG
32)	Generators	BIRLA YAMAHA - HONDA - CUMMINS - KIRLOSKAR
33)	Lifts	KONE - JOHNSON - OTIS - DELL ELEVATORS - SURYA ELEVATORS
34)	Any other brands other than above listed in Govt., SS rates will be considered according to their performance	

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T. T. DEVASTHANAMS, AHO
TIRUPATI

Proprietor

PART - B

BILL OF QUANTITIES AND PRICE BID

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B. M. Chaudhary
Proprietor

T. T. Devasthanams
SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS,
TIRUPATI

Name of work: **Construction of New science block at S.V.College, New Delhi.**
BILL OF QUANTITIES

PREAMBLE

1. The Bill of Quantities shall be read in conjunction with the instructions to Tenderers, General and Special conditions of Contract Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional and are given to provide common basis for tendering. *The quantities here given are those upon which the lump sum tender cost of the work is based but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done.* The basis of payment will be actual quantities of work ordered and carried out as measured by the Contractor and verified by the Engineer and valued at the estimate rate plus or minus tender percentage quoted in the Bill of Quantities where applicable, and otherwise at such rates and prices as the Engineer-in-Charge may fix within the terms of Contract.
3. The estimate rates in the Bill of Quantities shall, except in so-far as it is otherwise provided under the Contract include cost of all constructional material, labour, machinery, transportation, erection, maintenance, profit, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The Tender percentage quoted by the tenderer shall hold good for execution of work even with altered plans.
5. The whole cost of complying with the provisions of the Contract shall be included in the estimated rates for items provided in the Bill of Quantities and where no items are provided in the Bill of Quantities, their cost shall be deemed to be distributed among the estimate rates entered for the related items of work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering estimate rate against each item in the Bill of Quantities.
7. The method of measurements of completed work for payment shall be in accordance with the relevant B.I.S. Codes & A. P. S. Specifications.
8. All items of work are to be executed as per the drawings / specifications supplied with the contract documents.

If there is any contradiction between the drawings and the text of the specifications, the later shall prevail.
9. The Tenderer should inspect and select the quarries of his choice before he quotes the tender percentage in the Schedule of Bill of Quantities and satisfy himself about the availability of required quantum of materials.
10. Diversion drains should be excavated before completion of the embankments and the useful soils should be used in the nearby embankments.
11. The actual mix proportion by weight to be adopted during execution will be got designed in the laboratories to suit the grade of concrete and mortar to be used. It will be the responsibility of the contractor to manufacture concrete and mortar of required strength.
12. The quantum of measurement for all items of earthwork involving conveyance manually or by machinery shall be as assessed by level measurement. The measurements for the embankment will be for the consolidated banks only.
13. Wherever bailing out of water is involved either for excavation or for foundations or for constructions, the percentage quoted shall take into account the dewatering charges necessary. No separate payment will be made for dewatering.

14. Wherever embankment work is involved, useful soils approved by the Engineer-in-Charge from the cutting reaches and diversion drains shall be taken and used for forming nearby embankments soils used for constructions will be at free of cost.
15. The quoted tender percentage shall also include the work of any kind necessary for the due and satisfactory construction, completion and maintenance of the works according to the drawings and these specifications and further drawings and orders that may be issued by the Engineer-in-Charge from time to time. The quoted tender percentage shall include compliance by the Contractor with all the general conditions of contract, whether specifically mentioned or not in the various clauses of these specifications, all materials, machinery, plant, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop staff, labour and the provision of proper and sufficient protective works, diversions, temporary fencing and lighting. It shall also include safety of workers, first aid equipments suitable accommodation for the staff and workmen, with adequate sanitary arrangements, the effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties / Taxes, duties or other charges arising out of the execution of works and the regular clearance of rubbish, reinstatement and clearing-up of the site as may be required on completion of works safety of the public and protection of the works and adjoining land. The work of Building in quality control / assurance shall be deemed to be covered in the quoted percentage.
16. The Contractor shall ensure that, the quoted tender percentage shall cover all stages of work such as setting out, selection of materials, selection of construction methods, selection of equipment and plant, deployment of personnel and supervisory staff, quality control testing etc. The work quality assurance shall be deemed to be covered in the tender percentage.
17. a) The special attention of the tenderer is drawn to the conditions in the tender notices wherein reference has been made to the Andhra Pradesh Standard Specifications [APSS] and the Standard preliminary specifications containing therein. These preliminary specifications shall apply to the agreement to be entered into between the contractor and the Government of Andhra Pradesh and shall form an in-separable condition of the contract along with the estimate. All these documents taken together shall be deemed to form one contract and shall be complimentary to another.
- b) The tenderer shall examine, closely the A.P.S.S. / MORTH and also the standard preliminary specifications contained therein and sign the Superintending Engineer's office copy of the APSS / MORTH and its addenda volume in token of such study before submitting his overall tender percentage which shall be for finished work in-situ. He shall also carefully study the drawings and additional specifications and all the documents, which form part of the agreement to be entered into by the successful tenderer. The APSS / MORTH and other documents connected with contract such as estimate plans, specifications, can be seen on all working days in the office of the **Superintending Engineer –III, TTDs, Tirupati.**
18. The tenderers attention is directed to requirements for materials under the clause 'materials and workmanship' in the preliminary specifications of APSS. Materials conforming to the Bureau of Indian Standards specifications, APSS etc., shall be used on the work and the tenderers shall quote his overall tender percentage accordingly.
19. The tenderer has to do his own testing of materials and satisfy himself that they conform to the specifications of respective I.S.I. Codes before tendering.
20. The contractor shall himself procure the required construction materials of approved quality including the earth for formation of embankment and water from quarries / sources of his choice. All such quarries / sources of materials required for the work shall be got approved by the Engineer-in-Charge in writing well before their use of the work.
21. The contractor shall himself procure the steel, cement, Bitumen, Blasting materials, sand, metal, soils, etc., and such other materials required for the work well in advance. The contractor has to bear the cost of materials for conveyance. The department will not take any responsibility for fluctuations in market in cost of the materials, transportation and for loss of materials etc.
22. Inspection of site and quarries by the tenderer: Every tenderer is expected before quoting his overall tender percentage, to inspect the site of proposed work. He should also inspect the quarries and satisfy himself about the quality, and availability of materials. The best class of materials to be obtained from quarries, or other sources shall be used on the work. In every case the materials must comply with the relevant standard specifications.

Samples of materials as called for in the standard specifications or in this tender notice, or as required by the Executive Engineer, in any case, shall be submitted for the Executive Engineer's approval before the supply to site of work is begun.

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TIRUPATI

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23. The tenderers particular attention is drawn to the sections and clauses in the A.P. standard specification dealing with
- Test, inspection and rejection of defective materials and work.
 - Carriage
 - Construction plant
 - Water and lighting
 - Cleaning up during the progress and for delivery.
 - Accidents
 - Delays
 - Particulars of payments.

The contractor should closely peruse all the specification clauses, which govern the overall tender percentage he is tendering.

24. The defect liability period of contract in terms of GO Ms.No.8, T.R&B Dept., dt:8.1.2003 is twenty four months.
25. The estimate rates for items shown in the Schedule "A" include all construction materials. No escalation in rates will be paid unless specified in the tender document. The tenderer has to quote an overall tender percentage considering all the aspects of the tender to complete the finished item of work as per the APSS / MORTH / B.I.S. specifications, the special specifications appended, Drawings etc.
26. If there is any contradiction between APSS / MORTH and B.I.S. specifications, listed and detailed technical specifications, the latter shall prevail.
27. In case of a job for which specifications are not available with the Schedule or in APSS / MORTH or B.I.S. code and are required to be prescribed, such work shall be carried out in accordance with the written instructions of the Engineer-in-charge.
28. The contractor should use the excavated useful soils and stone for construction purpose. Soils used for construction either for homogeneous section in hearting or in casing zone based on the suitability will be at free of cost and the cost of stone used for construction purpose will be recovered from the contractors bill.

The contractor should quote his tender percentage keeping in view of the above aspects.

29. Additions and alternations by the Tenderer in the Schedule of quantities will disqualify the tender.
30. In the case of discrepancies between the written description of the item in the Schedule "A" and the detailed description in the specification of the same item, the latter shall be adopted.
31. The Unit rates noted below are those governing payment of extras or deductions for omissions according to the conditions or the contract as set-forth in the preliminary specifications of the A.P. standard specifications and other conditions of specification of this contract.
32. It is to be expressly understood that the measured work is to be taken according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Executive Engineer and the cost calculated by measurement or weight at their respective rates without any additional charge for any necessary or contingent works connected works connected herewith. The Percentage Excess or less on ECV quoted are for works in situ and complete in every respect.
33. For all items of work in excess of the quantities indicated the rates payable for such excess quantities will be tendered rates i.e., estimate rates plus or minus tender percentage.
34. For all items of work, intermediate payment will be made provisionally as per relevant clause. Full-accepted agreement rates will be paid only after all the items of works are completed.
35. The contractor is bound to execute all supplemental works that are found essential incidental and inevitable during execution of main work.
36. The payment of rates for supplement items of work will be regulated as under.
- 36.1 Supplemental items directly deductible from similar items in the original agreement.

The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials labour between the new items and similar items in the agreement worked out with reference to the schedule of rates adopted in the sanctioned estimate with which the tenders are compared.

- 36.2 a) Similar items but the rates of which cannot be directly deducted from the original agreement.
b) Purely new items which do not correspond to any item in the agreement.
- 36.3 The rate of all such items shall be estimated rates plus or minus overall tender percentage.
37. ENTRUSTMENT OF ADDITIONAL ITEMS.
- a) Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with tenders and if the value of such items exceeds the limits up to which the officer is empowered to entrust works initially to contractor without calling for tenders approval of next higher authority shall be obtained. Entrustment of all such items on nomination shall be rates not exceeding the estimate rates.
- b) Entrustment of supplement items contingent on the main work will be authorised by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original agreement rates for such items shall be worked in accordance with the procedure prescribed in GO Ms.No.1493 PWD, dated:25.10.1971 and as amended in Govt. Memo number 544 cod 72-22 dt:6.7.1973.
- c) Entrustment of either the additional supplemental items shall be further subject to the provisions under Para 176 (b) of APWD Code Viz., the items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

Note: It may be noted that the term estimate rate used above means the rate in the sanctioned estimate with which the tender's compared or if no such rate is available in the estimate the rate derived will be with reference to the schedule of rates adopted in the sanctioned estimate with which tenders are compared.

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Proprietor

W. T. Devaswami
SUPERINTENDING ENGINEER-III.
ENGINEER-II
Y. T. DEVASWAMI,
NAMS,
TIRUPATI

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Proprietor

SCHEDULE – A

SCHEDULE OF RATES AND APPROXIMATE QUATITIES

- i. The quantities here given are those up to which the lumpsum tender cost of the work is based, but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and not so necessarily show the actual quantities of work to be done. The Unit rates noted below are those governing, payment for extras of deductions or omissions according to the conditions of the contract as set forth in the preliminary specifications of the A.P. Detailed Standard Specifications and other conditions Specifications of this contract.
- ii. It is to be expressly understood that the measured work is to be taken net (not with standing any custom or practice to the contrary) according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Chief Engineer / Superintending Engineer / Executive Engineer concerned and the cost calculated by measurement or weight, at the respective prices, without any additional charges for any necessary or contingent works connected therewith. The rates quoted are for works is Site and complete in every respect.

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Proprietor

T. T. Devasthanams
SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI

SI. No.	Probable Quantity	Description	APDSS No	Unit words	in	Rate in figures	Rate in words	Amount
1	2	3	4	5		6	7	8
1	850.00 Cum	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock.		One cubic metre		227.80	Rupees two hundred twenty seven and paise eighty only	193630.00
2	80.00 Rmt	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, and dressing of sides remaining of bottoms, depth upto 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m : Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.		One running metre		192.75	Rupees one hundred ninety two and paise seventy five only	15420.00
3	655.00 Cum	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete		One cubic metre		843.65	Rupees eight hundred forty three and paise sixty five only	552590.75
4	215.00 Cum	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).		One cubic metre		3920.65	Rupees three thousand nine hundred twenty and paise sixty five only	842939.75
5		Centering and shuttering including strutting, propping etc. and removal of form for						
a.	480.00 Sqm	Foundations, footings, bases of columns, etc. for mass concrete.		One Square metre		186.40	Rupees one hundred eighty six and paise forty only	89472.00
b.	1550.00 Sqm	Columns, Pillars, Piers, Abutments, Posts and Struts.		One Square metre		423.00	Rupees four hundred twenty three only	655650.00
c.	2310.00 Sqm	Lintels, beams, plinth beams, girders, bressumers and cantilevers.		One Square metre		309.80	Rupees three hundred nine and paise eighty only	715638.00
d.	2700.00 Sqm	Suspended floors, roofs, landings, balconies and access platform.		One Square metre		371.80	Rupees three hundred seventy one and paise eighty only	1003860.00
e.	270.00 Sqm	Weather shade, Chajjas, corbels etc., including edges.		One Square metre		468.20	Rupees four hundred sixty eight and paise twenty only	126414.00
f.	220.00 Sqm	Stairs, (excluding landings) except spiral-staircases.		One Square metre		375.65	Rupees three hundred seventy five and paise sixty five only	82643.00

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g.	20.00 Sqm	Walls (any thickness) including attached pilasters, butresses, plinth and string courses etc.		One Square metre	334.50	Rupees three hundred thirty four and paise fifty only	6690.00
6	330.00 Cum	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, 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. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). All works upto plinth level		One cubic metre	5704.45	Rupees five thousand seven hundred four and paise forty five only	1882468.50
7	805.00 Cum	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, 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. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). All works above plinth level upto floor V level		One cubic metre	6353.00	Rupees six thousand three hundred fifty three only	5114165.00
8	36400.00 Kg	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Reinforcement for R.C.C. Work up to plinth level Using Thermo-Mechanically Treated Bars		One Kilogram	66.50	Rupees sixty six and paise fifty only	2420600.00
9	128140.00 Kg	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Reinforcement for R.C.C. Work above plinth level Using Thermo-Mechanically Treated Bars		One Kilogram	66.50	Rupees sixty six and paise fifty only	8521310.00
10	100.00 Cum	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, leadup to 50 m and lift upto 1.5 m.		One cubic metre	101.50	Rupees one hundred one and paise fifty only	10150.00
11	50.00 Cum	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand)		One cubic metre	4646.50	Rupees four thousand six hundred forty six and paise fifty only	232325.00

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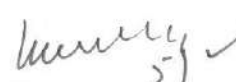
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SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI

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1	2	3	4	5	6	7	8
12	890.00 Cum	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)		One cubic metre	5325.10	Rupees five thousand three hundred twenty five and paise ten only	4739339.00
13	460.00 Sqm	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in Cement mortar 1:4 (1 cement : 4 coarse sand)		One Square metre	647.90	Rupees six hundred forty seven and paise ninety only	298034.00
14	3600.00 Sqm	20 mm cement plaster of mix 1:6 (1 cement : 6 fine sand)		One Square metre	184.70	Rupees one hundred eighty four and paise seventy only	664920.00
15	5150.00 Sqm	12 mm cement plaster of mix 1:6 (1 cement : 6 fine sand)		One Square metre	133.85	Rupees one hundred thirty three and paise eighty five only	689327.50
16	6800.00 Sqm	12 mm cement plaster finished with a floating coat of neat cement of mix 1:4 (1 cement : 4 fine sand)		One Square metre	145.40	Rupees one hundred forty five and paise forty only	988720.00
17	2100.00 Sqm	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) 25 mm thick		One Square metre	1071.70	Rupees one thousand seventy one and paise seventy only	2250570.00
18	210.00 Sqm	Kota stone slabs 20 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		One Square metre	1100.85	Rupees one thousand one hundred and paise eighty five only	231178.50
19	100.00 Rmt	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.		One running metre	68.45	Rupees sixty eight and paise forty five only	6845.00
20	230.00 Sqm	Providing and laying 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 Size of Tile 600x600 mm.		One Square metre	1402.55	Rupees one thousand four hundred two and paise fifty five only	322586.50
21	10.00 Sqm	Providing and laying Ceramic glazed floor tiles 300x300 mm or any approved size(thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Redrown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete		One Square metre	822.10	Rupees eight hundred twenty two and paise ten only	8221.00

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1	2	3	4	5	6	7	8
22	1725.00 Sqm	Providing and fixing 1st quality ceramic glazed wall tiles sq.m conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.		One Square metre	793.60	Rupees seven hundred ninety three and paise sixty only	1368960.00
23	175.00 Sqm	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved hade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing oulding and polishing to edge to give high gloss finish etc. complete at all levels.. Granite of any colour and shade Area of slab over 0.50 sqm.		One Square metre	3769.70	Rupees three thousand seven hundred sixty nine and paise seventy only	659697.50
24	1020.00 Rmt	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge Granite work.		One running metre	210.65	Rupees two hundred ten and paise sixty five only	214863.00
25	6.00 Cum	Providing wood work in frames of doors, windows, clerestory windowsand other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood		One cubic metre	90495.80	Rupees ninety thousand four hundred ninety five and paise eighty only	542974.80
26		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 matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces					
a.	220.00 Sqm	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.		One Square metre	1684.75	Rupees one thousand six hundred eighty four and paise seventy five only	370645.00
b.	60.00 Sqm	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws		One Square metre	1510.55	Rupees one thousand five hundred ten and paise fifty five only	90633.00

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1	2	3	4	5	6	7	8
27	530.00 Sqm	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber /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): With float glass panes of 4.0 mm thickness	X	One Square metre	790.00	Rupees seven hundred ninety only	418700.00
28	15550.00 Sqm	Applying one coat of cement primer of approved brand and manufacture on wall surface Cement primer	X	One Square metre	31.55	Rupees thirty one and paise fifty five only	490602.50
29	15550.00 Sqm	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	X	One Square metre	71.65	Rupees seventy one and paise sixty five only	1114157.50
30	550.00 Sqm	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. Wood work	X	One Square metre	92.75	Rupees ninety two and paise seventy five only	51012.50
31	790.00 Sqm	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work (steel work)	X	One Square metre	63.05	Rupees sixty three and paise five only	49809.50
32		Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete					
a.	224.00 Nos	300X16 mm	X	Each	215.30	Rupees two hundred fifteen and paise thirty only	48227.20
33		Providing and fixing aluminium tower bolts 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.	230.00 Nos	300x10 mm	X	Each	108.10	Rupees one hundred eight and paise ten only	24863.00
b.	36.00 Nos	150x10 mm	X	Each	62.75	Rupees sixty two and paise seventy five only	2259.00
34		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.	144.00 Nos	125 mm	X	Each	66.95	Rupees sixty six and paise ninety five only	9640.80
b.	64.00 Nos	100 mm	X	Each	52.80	Rupees fifty two and paise eighty only	3379.20

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1	2	3	4	5	6	7	8
35	208.00 Nos	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. Twin rubber stopper		Each	80.20	Rupees eighty and paise twenty only	16681.60
36	4.00 Cum	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)		One cubic metre	5829.65	Rupees five thousand eight hundred twenty nine and paise sixty five only	23318.60
37	150.00 Sqm	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth		One Square metre	378.95	Rupees three hundred seventy eight and paise ninety five only	56842.50
38	60.00 Cum	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)		One cubic metre	5021.05	Rupees five thousand twenty one and paise five only	301263.00
39	780.00 Sqm	Providing impervious coat to exposed RCC roof slab surface with CM (1:3), 20mm thick with 1Kg of water proof compound of approved make per 50 kg bag of cement laid over roof when it is green including cost of all materials, conveyance charges of materials and all operational, incidental and labour charges for mixing mortar, laying, rendering smooth and thread lining, curing, rounding off junctions of wall and slab etc., complete for finished item.		One Square metre	320.35	Rupees three hundred twenty and paise thirty five only	249873.00
40	190.00 Rmt	Providing gola 75x75 mm in cement concrete 1:2:4 (1 metre cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75mm deep chase		One running metre	127.95	Rupees one hundred twenty seven and paise ninety five only	24310.50
41	380.00 Rmt	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter		one running metre	218.60	Rupees two hundred eighteen and paise sixty only	83068.00

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1	2	3	4	5	6	7	8
42		Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.					
a.	75.00 Nos	Coupler-110mm	Each	133.55	Rupees one hundred thirty three and paise fifty five only		10016.25
b.	50.00 Nos	Bend 87.5°-110mm	Each	160.25	Rupees one hundred sixty and paise twenty five only		8012.50
c.	25.00 Nos	Shoe (Plain)-110mm	Each	290.35	Rupees two hundred ninety and paise thirty five only		7258.75
43	20000.00 Ltr	Providing and placing on terrace (at all floor levels) polyethylene litre water storage tank ISI : 12701 marked 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	One litre	6.30	Rupees six and paise thirty only		126000.00
44		Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work					
a.	75.00 Rmt	80 mm dia nominal bore	One running metre	628.35	Rupees six hundred twenty eight and paise thirty five only		47126.25
b.	50.00 Rmt	65 mm dia nominal bore	One running metre	515.55	Rupees five hundred fifteen and paise fifty five only		25777.50
45		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & 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.	100.00 Rmt	32 mm nominal outer dia .Pipes.	One running metre	407.40	Rupees four hundred seven and paise forty only		40740.00
b.	100.00 Rmt	25 mm nominal outer dia .Pipes.	One running metre	336.25	Rupees three hundred thirty six and paise twenty five only		33625.00

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 T. T. DEVASTHANAMS,
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1	2	3	4	5	6	7	8
c.	400.00 Rmt	20 mm nominal outer dia .Pipes.		One running metre	281.35	Rupees two hundred eighty one and paise thirty five only	112540.00
46	130.00 Nos	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore		Each	458.40	Rupees four hundred fifty eight and paise forty only	59592.00
47	20.00 Nos	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms 15mm nominal bore		Each	795.20	Rupees seven hundred ninety five and paise twenty only	15904.00
48	10.00 Nos	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 15 mm nominal bore.		Each	618.70	Rupees six hundred eighteen and paise seventy only	6187.00
49	50.00 Nos	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore		Each	506.70	Rupees five hundred six and paise seventy only	25335.00
50	10.00 Nos	Providing and fixing PTMT soap Dish Holder having length of Nos. 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements weighing not less than 106 gms.		Each	152.70	Rupees one hundred fifty two and paise seventy only	1527.00
51	16.00 Nos	Providing and fixing PTMT towel rail complete with brackets fixed to wooden 100mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.		Each	448.40	Rupees four hundred forty eight and paise forty only	7174.40
52	10.00 Nos	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter		Each	71.40	Rupees seventy one and paise forty only	714.00
53	100.00 Nos	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length 15 mm nominal bore		Each	67.35	Rupees sixty seven and paise thirty five only	6735.00
54	6.00 Nos	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) 80 mm nominal bore		Each	1918.85	Rupees one thousand nine hundred eighteen and paise eighty five only	11513.10
55	6.00 Nos	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) 65 mm nominal bore		Each	1286.25	Rupees one thousand two hundred eighty six and paise twenty five only	7717.50
56	40.00 Nos	Supplying and Fixing European Water Closet of 1st quality conforming to IS:2556-Part-2-1973 of Hindustan / Neycer make white glazed with 'S' trap with ISI Mark or equivalent approved by the department.		Each	1696.61	Rupees one thousand six hundred ninety six and paise sixty one only	67864.40
57	40.00 Nos	Supply & Fixing best Indain make plastic seat and lid for European water closets with rbrber or plastic Buffers as per IS 2548-1996.		Each	462.27	Rupees four hundred sixty two and paise twenty seven only	18490.80

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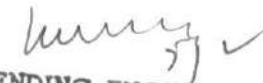
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58	40.00 Nos	Supplying & Fixing of 10 litres capacity single flush PVC low level system parry ware, slim line with internal components & short bend.		Each	1508.22	Rupees one thousand five hundred eight and paise twenty two only	60328.80
59	40.00 Nos	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 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 Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap		Each	1937.94	Rupees one thousand nine hundred thirty seven and paise ninety four only	77517.60
60	40.00 Nos	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.		Each	1108.59	Rupees one thousand one hundred eight and paise fifty nine only	44343.60
61	8.00 Nos	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making goodKitchen sink without drain board 610x510 mm bowl depth 200 mm the walls wherever required		Each	4891.51	Rupees four thousand eight hundred ninety one and paise fifty one only	39132.08
62	50.00 Nos	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C.flexible pipe 32mm dia		Each	82.71	Rupees eighty two and paise seventy one only	4135.50
63	16.00 Nos	Providing and fixing 600x450 mm bevelled edge mirror of superior Nos. glass (of pproved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		Each	869.31	Rupees eight hundred sixty nine and paise thirty one only	13908.96
64a.	350.00 Rmt	Supply and fixing of Prince / sudhakar make or any ISI brand or equivalent quality PVC / SWR pipes & Fittings (as per ISI standards) 6kg / cm2 -do- 110mm dia Single socket pipe		One running metre	368.79	Rupees three hundred sixty eight and paise seventy nine only	129076.50
b	270.00 Rmt	Supply and fixing of Prince / sudhakar make or any ISI brand or equivalent quality PVC / SWR pipes & Fittings (as per ISI standards) 6kg / cm2 -do- 75mm dia Single socket pipe		One running metre	231.99	Rupees two hundred thirty one and paise ninety nine only	62637.30
65		Prince / sudhakar make or equivalent quality U.V resistant UPVC) SWR pipe Fittings (as per ISI standards)					
a.	30.00 Nos	110 mm dia Plain bend 87.5 degrees		Each	85.50	Rupees eighty five and paise fifty only	2565.00
b	25.00 Nos	75 mm dia Plain bend 87.5 degrees		Each	51.30	Rupees fifty one and paise thirty only	1282.50
c	30.00 Nos	110 mm dia door bend 87.5 degrees		Each	110.58	Rupees one hundred ten and paise fifty eight only	3317.40
d	30.00 Nos	75mm dia door bend		Each	69.54	Rupees sixty nine and paise fifty four only	2086.20

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e	30.00 Nos	110 mm dia Single 'T'		Each	111.72	Rupees one hundred eleven and paise seventy two only	3351.60
f	10.00 Nos	75 mm dia Single 'T'		Each	61.56	Rupees sixty one and paise fifty six only	615.60
g	10.00 Nos	110 mm dia single 'Y'		Each	141.36	Rupees one hundred forty one and paise thirty six only	1413.60
h	10.00 Nos	75 mm Dia single 'Y'		Each	76.38	Rupees seventy six and paise thirty eight only	763.80
i	10.00 Nos	110 mm dia coupler		Each	59.28	Rupees fifty nine and paise twenty eight only	592.80
j	10.00 Nos	75 mm dia coupler		Each	36.48	Rupees thirty six and paise forty eight only	364.80
k	10.00 Nos	110 mm dia vent cowls		Each	19.38	Rupees nineteen and paise thirty eight only	193.80
l	10.00 Nos	75 mm dia vent cowls		Each	14.82	Rupees fourteen and paise eighty two only	148.20
m	150.00 Nos	Supply of 4" (101.9 mm) Nahany trap (Without jali with inlet)		Each	116.28	Rupees one hundred sixteen and paise twenty eight only	17442.00
n	50.00 Nos	3" (76.2 mm) Nahany Trap		Each	90.06	Rupees ninety and paise six only	4503.00
66	850.00 Cum	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to 30km from site		One cubic metre	298.94	Rupees two hundred ninety eight and paise ninety four only	254099.00
67	1000.00 Kg	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)		One Kilogram	611.10	Rupees six hundred eleven and paise ten only	611100.00

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1	2	3	4	5	6	7	8
68	41.00 Sqm	Supply and fixing of BISONPANEL (IS 14276) box type cup board using BISONPANEL for making frame of size 100mm x 35mm using two sandwiched 16MM boards, one BISONPANEL and one BISONLAM with plain 35mm wood lipping. The Shutters are made of 16MM thick BISONLAM (Pre-Laminated Cement Bonded Particle Board) of approved shade inclusive of hardware like M.S. powder coated Piano hinges of size 3/4" x 3/4", Aluminum powder coated handles of size 4" (101.6mm), Aluminum tower bolt 4" (101.6mm) Godrej locks, screws, wood lipping and Fevicol etc., complete finish item of work.		One Square metre	3078.00	Rupees three thousand seventy eight only	126198.00
69	23.00 Cum	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - -All work upto plinth level 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)		One cubic metre	5317.75	Rupees five thousand three hundred seventeen and paise seventy five only	122308.25
70	270.00 Sqm	Flooring with Antiskid floor tiles 1st quality of all series& shades (as per manufacture specification), set over base coat of cement mortar (1:4) 20mm thick over CC bed already laid or RCC roof slab, including neat cement slurry of honey like consistency spread @ 3.30 kgs per sqm. jointed with neat cement to full depth mixed with pigment of matching shade, including cost of all materials like flooring slab, cement, sand and water etc., complete, including the cost of conveyance of all materials.		One Square metre	797.66	Rupees seven hundred ninety seven and paise sixty six only	215368.20
71		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and ther sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and ointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For fixed portion					
a	3135.00 Kg	Powder coated aluminium (minimum thickness of powder coating 50 micron)		One Kilogram	373.00	Rupees three hundred seventy three only	1169355.00

M/s CHAUDHARY BUILDERS


 Proprietor


 SUPERINTENDING ENGINEER-III.
 T. T. DEVASTHANAMS,
 TIRUPATI


2841338/2019/EE-IV SEC-TTD

1	2	3	4	5	6	7	8
b	1650.00 Kg	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)		One Kilogram	427.60	Rupees four hundred twenty seven and paise sixty only	705540.00
72	12845.00 Kg	Providing and fixing M.S. grills required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc		One Kilogram	110.95	Rupees one hundred ten and paise ninety five only	1425152.75
73	230.00 Sqm	Marble stone flooring with 18 mm thick marble stone, as per sample of marble 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 Makrana white second quality		One Square metre	3132.05	Rupees three thousand one hundred thirty two and paise five only	720371.50
74	75.00 Rmt	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete 150 mm diameter		One running metre	301.90	Rupees three hundred one and paise ninety only	22642.50
75	75.00 Rmt	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design: 150 mm diameter S.W. pipe		One running metre	664.80	Rupees six hundred sixty four and paise eighty only	49860.00
76	5.00 Nos	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5		Each	1520.90	Rupees one thousand five hundred twenty and paise ninety only	7604.50

M/s CHAUDHARY BUILDERS



Proprietor



SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS,
TIRUPATI

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1	2	3	4	5	6	7	8
77	8.00 Nos	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with 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 40mm nominal size), inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5		Each	8062.70	Rupees eight thousand sixty two and paise seventy only	64501.60
78	200.00 Sqm	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge		One Square metre	557.45	Rupees five hundred fifty seven and paise forty five only	111490.00
79	10.00 Sqm	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits 50 mm thick		One Square metre	683.80	Rupees six hundred eighty three and paise eighty only	6838.00

M/s CHAUDHARY BUILDERS

Proprietor

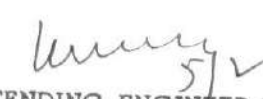
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 SUPERINTENDING ENGINEER-III
 T. T. DEVASTHANAMS,
 TIRUPATI

2841338/2019/EE-IV SEC-TTD

1	2	3	4	5	6	7	8
		Electrical Items:					
80		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 in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
a	75.00 Nos	Group B		Each	593.00	Rupees five hundred ninety three only	44475.00
b	336.00 Nos	Group C		Each	727.00	Rupees seven hundred twenty seven only	244272.00
81		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required					
a	1750.00 Rmt	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire		One running metre	140.00	Rupees one hundred forty only	245000.00
b	950.00 Rmt	2 X 4 sq. mm + 1 X 4 sq. mm earth wire		One running metre	171.00	Rupees one hundred seventy one only	162450.00
c	550.00 Rmt	2 X 6 sq. mm + 1 X 6 sq. mm earth wire		One running metre	216.00	Rupees two hundred sixteen only	118800.00
d	600.00 Rmt	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire		One running metre	214.00	Rupees two hundred fourteen only	128400.00
e	350.00 Rmt	4 X 4 sq. mm + 2 X 4 sq. mm earth wire		One running metre	278.00	Rupees two hundred seventy eight only	97300.00
f	250.00 Rmt	4 X 6 sq. mm + 2 X 6 sq. mm earth wire		One running metre	371.00	Rupees three hundred seventy one only	92750.00
82		Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
a	225.00 Rmt	1 x 1.5 sq. mm		One running metre	21.00	Rupees twenty one only	4725.00
b	500.00 Rmt	2 x 1.5 sq. mm		One running metre	35.00	Rupees thirty five only	17500.00
c	225.00 Rmt	2 x 2.5 sq. mm		One running metre	51.00	Rupees fifty one only	11475.00
d	245.00 Rmt	3 x 2.5 sq. mm		One running metre	77.00	Rupees seventy seven only	18865.00

M/s CHAUDHARY BUILDERS


 Proprietor


 SUPERINTENDING ENGINEER-III,
 T. T. DEVASTHANAMS,
 TIRUPATI

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1	2	3	4	5	6	7	8
e	120.00 Rmt	2 x 4 sq. mm		One running metre	79.00	Rupees seventy nine only	9480.00
f	120.00 Rmt	3 x 4 sq. mm		One running metre	111.00	Rupees one hundred eleven only	13320.00
83		Supplying and drawing following pair 0.5 sq mm FRLR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
a	200.00 Rmt	2 Pair		One running metre	17.00	Rupees seventeen only	3400.00
b	250.00 Rmt	4 Pair		One running metre	26.00	Rupees twenty six only	6500.00
84		Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
a	350.00 Rmt	20 mm		One running metre	64.00	Rupees sixty four only	22400.00
b	200.00 Rmt	25 mm		One running metre	72.00	Rupees seventy two only	14400.00
c	50.00 Rmt	50 mm		One running metre	152.00	Rupees one hundred fifty two only	7600.00
85		Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					
a	127.00 Nos	1 or 2 Module (75mmX75mm)		Each	159.00	Rupees one hundred fifty nine only	20193.00
b	127.00 Nos	3 Module (100mmX75mm)		Each	172.00	Rupees one hundred seventy two only	21844.00
c	127.00 Nos	4 Module (125mmX75mm)		Each	197.00	Rupees one hundred ninety seven only	25019.00
d	60.00 Nos	6 Module (200mmX75mm)		Each	241.00	Rupees two hundred forty one only	14460.00
e	95.00 Nos	8 Module (125mmX125mm)		Each	271.00	Rupees two hundred seventy one only	25745.00
f	54.00 Nos	12 Module (200mmX150mm)		Each	365.00	Rupees three hundred sixty five only	19710.00
86		Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					

M/s CHAUDHARY BUILDERS

Proprietor

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 SUPERINTENDING ENGINEER-I
 I. T. DEVASTHANAMS,
 TIRUPATI

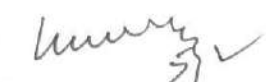
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1	2	3	4	5	6	7	8
a	154.00 Nos	5/6 amps switch		Each	77.00	Rupees seventy seven only	11858.00
b	126.00 Nos	15/16 amp switch		Each	114.00	Rupees one hundred fourteen only	14364.00
c	154.00 Nos	3 pin 5/6 amp socket outlet		Each	101.00	Rupees one hundred one only	15554.00
d	126.00 Nos	6 pin 15/16 amp socket outlet		Each	163.00	Rupees one hundred sixty three only	20538.00
e	25.00 Nos	Telephone socket outlet		Each	92.00	Rupees ninety two only	2300.00
87	108.00 Nos	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.		Each	362.00	Rupees three hundred sixty two only	39096.00
88	132.00 Nos	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.		Each	42.00	Rupees forty two only	5544.00
89	25.00 Nos	Supplying and fixing brass batten/ angle holder including connection etc. as required.		Each	64.00	Rupees sixty four only	1600.00
90	6.00 Nos	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.		Each	60.00	Rupees sixty only	360.00
91	228.00 Nos	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.		Each	82.00	Rupees eighty two only	18696.00
92	132.00 Nos	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)		Each	30.00	Rupees thirty only	3960.00
93	132.00 Nos	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.		Each	87.00	Rupees eighty seven only	11484.00
94	132.00 Nos	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.		Each	112.00	Rupees one hundred twelve only	14784.00

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Proprietor

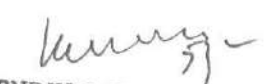


SUPERINTENDING ENGINEER-III
T. T. DEVASTHANAMS,
TIRUPATI

1	2	3	4	5	6	7	8
95		Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
a	12.00 Nos	2 + 4 way, Double door		Each	780.00	Rupees seven hundred eighty only	9360.00
b	12.00 Nos	2 + 8 way, Double door		Each	954.00	Rupees nine hundred fifty four only	11448.00
96		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)					
a	6.00 Nos	4 way (4 + 12), Double door		Each	1833.00	Rupees one thousand eight hundred thirty three only	10998.00
b	6.00 Nos	8 way (4 + 24), Double door		Each	2795.00	Rupees two thousand seven hundred ninety five only	16770.00
97		Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
a	6.00 Nos	4 way (4 + 12), Double door		Each	4258.00	Rupees four thousand two hundred fifty eight only	25548.00
98		Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)					
a	6.00 Nos	8 way (4 + 24), Double door		Each	9899.00	Rupees nine thousand eight hundred ninety nine only	59394.00
99		Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					

M/s CHAUDHARY BUILDERS


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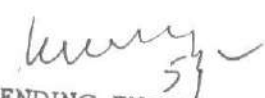

 SUPERINTENDING ENGINEER-III,
 T. T. DEVASTHANAMS,
 TIRUPATI

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1	2	3	4	5	6	7	8
a	72.00 Nos	Single pole		Each	146.00	Rupees one hundred forty six only	10512.00
100		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	12.00 Nos	40 amps		Each	267.00	Rupees two hundred sixty seven only	3204.00
101		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	12.00 Nos	63 amps		Each	614.00	Rupees six hundred fourteen only	7368.00
b	12.00 Nos	100 amps		Each	772.00	Rupees seven hundred seventy two only	9264.00
102		Supplying and fixing following rating, four pole, (three phase and neutral), 415 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.					
a	3.00 Nos	63 amps		Each	2128.00	Rupees two thousand one hundred twenty eight only	6384.00
106	14.00 Nos	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.		Each	796.00	Rupees seven hundred ninety six only	11144.00
104		Supplying, installing, testing and commissioning of following capacity End Feed Unit made of 1.6mm thick sheet steel enclosure duly painted with powder coating to existing rising mains complete with TPN disconnecter FSU and HRC fuses, mounting stands, cable end box, brass compression gland, connections, earthing etc. as required.					
a	3.00 Nos	200 amps TPN		Each	14148.00	Rupees fourteen thousand one hundred forty eight only	42444.00
105	75.00 Rmt	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.		One running metre	25.00	Rupees twenty five only	1875.00
106	3.00 Nos	125 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses		Each	4681.95	Rupees four thousand six hundred eighty one and paise ninety five only	14045.85

M/s CHAUDHARY BUILDERS


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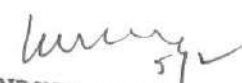

 SUPERINTENDING ENGINEER-II
 T. T. DEVASTHANAM,
 TIRUPATI

2841338/2019/EE-IV SEC-TTD

1	2	3	4	5	6	7	8
107	3.00 Nos	200 amps. TPN switch fuse unit with ISI marked HRC fuses		Each	5494.12	Rupees five thousand four hundred ninety four and paise twelve only	16482.36
108	300.00 Rmt	Supplying & installing UTP networking Cat-6 cable suitable for LAN / WAN Computer net-working as per specification No.WG-COC/NC		One running metre	34.00	Rupees thirty four only	10200.00
109	200.00 Rmt	Supply & erecting telephone cable 4 pair with 0.5mm dia laid in provided PVC casing / conduit as per specification No.WG-TW		One running metre	28.00	Rupees twenty eight only	5600.00
110	125.00 Rmt	Supply & erecting telephone cable 5 pair with 0.5mm dia laid in provided PVC casing / conduit as per specification No.WG-TW		One running metre	33.00	Rupees thirty three only	4125.00
111	50.00 Rmt	Supply & erecting telephone cable 10 pair with 0.5mm dia laid in provided PVC casing / conduit as per specification No.WG-TW		One running metre	55.00	Rupees fifty five only	2750.00
112	550.00 Rmt	Supply & laying PVC Box trunking of size 50 X 50mm with accessories on wall/ceiling as per specification No.WG-MA/BOX		One running metre	141.00	Rupees one hundred forty one only	77550.00
113	125.00 Rmt	Supply & laying PVC Box trunking of size 100 X 50mm with accessories on wall/ceiling as per specification No.WG-MA/BOX		One running metre	472.00	Rupees four hundred seventy two only	59000.00
114	228.00 Nos	Supply of 2 x 36/40W Surface / Recessed mounting mirror optic luminaire with powder coated CRCA sheet steel housing with alluminium mirror reflector and decorative end plates with Electronic Ballast, of makes Bajaj / Surya / HPL / Havells		Each	2369.20	Rupees two thousand three hundred sixty nine and paise twenty only	540177.60
115	456.00 Nos	Supply of 36/40W fluorescent Lamp of makes Surya / Havells / HPL / Fortune Art		Each	40.00	Rupees forty only	18240.00
116	108.00 Nos	Supply of 48" (1200mm) Sweep 5 Star rated Ceiling Fan without Regulator of makes Crompton High Speed Decora		Each	2020.00	Rupees two thousand twenty only	218160.00
117	3.00 Nos	Design, Fabrication, Supply and Erection of L.T indoor type cubical Lighting panel board made with 14 SWG CRCA sheet. The size of panel should be 1800mm X 1000mm X 400mm and the panel should be mounted on base MS channel of size 100x50x6mm. The following MCCBs, meter etc., should be accommodate in the panel with necessary individual doors, separate chambers for bus bars, out going cables etc. All the shells shall be provided with rubber beeding and door knobs. The entire panel should be powder coated with siemens grey colour through 7 tank process. The following should be supply and fixing in the panel firmly.		Each	137000.00	Rupees one lakh thirty seven thousand only	411000.00

M/s CHAUDHARY BUILDERS


 Proprietor


 SUPERINTENDING ENGINEER-III
 T. T. DEVASTHANAMS,
 TIRUPATI

1	2	3	4	5	6	7	8
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Incomer:-

1 No of 400Amps, 4 pole MCCB / Confirms to IS:13947 having Breaking Capacity 50 KA Panel Mounted of makes LEGRAND / L & T / GE / SCHNEIDER / ABB / SIEMENS.

Outgoings:-

1 Nos of 250Amps 4 pole MCCBs having Breaking Capacity 35 KA, 2 Nos of 125Amps 4 pole MCCBs & 1 Nos of 63Amps 4 pole MCCBs / Confirms to IS:13947 having Breaking Capacity 25 KA Panel Mounted of makes LEGRAND / L & T / GE / SCHNEIDER / ABB / SIEMENS.

Metering:-

1 No of LT 3 phase Digital multifunction energy meter with 3 lines LCD display of Size 96 x 96 mm for measuring all the parameters (Voltage / Current / Power / Frequency / Power Factor / Kw / Kwh / KVAR / KVARH).

Make: Conzerv / AE / HPL

Indication Lamps :-

1 set (3 Nos) - Phase indication lamps for R Y B with control fuses.

Make : Conzerv / AE / HPL.

LT CT Coils :-

3 Nos. - LT Current transformers with bar primary 100/5A to 1000/5A ratio.

Make: Conzerv / AE / HPL

Copper Busbar arrangement:-

1) 4 Nos. of size 1" x 1/2" copper flat shall be run from Incoming MCCB unit to Horizontal bus bar chambers with 400x12x50mm insulators supports.

2) 4 Nos. of size 1" x 1/4" copper flat links shall be provided to the Out goin MCCBs and connect to main bus bar / cable with necessary bolts and nuts on 40x8mm insulator supports.

3) 1 No. of size 1" x 1/8" copper flat shall be run inside bottom width of the panel for earth busbar.

4) Necessary heat shrinkable sleeve should be provided to the above copper bus bars except earth bus bar.

5) 2 Nos. of danger boards to be fixed to the panel boards.

118	6.00 Nos	Supply of 12" (300mm) Light duty exhaust fan with wire guard etc complete of makes Crompton / Bajaj Bahar WG / Havells Ventil Air-DB / Orient hill air.	Each	1350.00	Rupees one thousand three hundred fifty only	8100.00
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M/s CHAUDHARY BUILDERS

Proprietor

[Signature]
SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI

2841338/2019/EE-IV SEC-TTD

1	2	3	4	5	6	7	8
119	275.00 Rmt	Supplying & erecting PVC armoured cable 3 1/2 core 95 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB LT/AL		One running metre	601.00	Rupees six hundred one only	165275.00
120	375.00 Rmt	Supplying & erecting PVC armoured cable 3 1/2 core 120 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB LT/AL		One running metre	749.00	Rupees seven hundred forty nine only	280875.00
121	275.00 Nos	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)		Each	67.00	Rupees sixty seven only	18425.00
122	375.00 Nos	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)		Each	77.00	Rupees seventy seven only	28875.00
123	3.00 Nos	Design, Fabrication and erection of out door pillar box made out of 14SWG CRCA sheet with necessary reinforcement the size of the box should be 900(W) x 400(D) x 1200(A)mm suitable for out door purpose with cable entry from the bottom. The box should have double door facility with necessary locking arrangement and gas kitting so as to make box with water proof and also vermin proff. The box shall have slopped roof and also have sufficient over hangs. The following equipment for incorporation in the panel board / box. 1) 200Amps L&T switch fuse unit fixed on suitable support - 1No. 2) 4Nos. Of Copper bus bar of size 1" X 1/4" to be provided horizontally in the box on 8Nos. Of SMC epoxy insulator supports and should vertically connect to the SDFU Switch. 3) An MS angle frame work made out of 40 X 40 x 6mm should be fabricated to the bottom of the box and 4Nos. Of legs with a length of 600mm each should be fabricated to the pillar box. The entire panel board should be cleaned with 7 tank process and painting with powder coating. The entire box should be fixed at site by grouting at site condition.		Each	31122.00	Rupees three lakh one thousand one hundred twenty two only	93366.00
124	4.00 Nos	Supply & erecting Street Light metal halide lamp fitting 70W on provided bracket as per specification no.FG-ODF/GSL		Each	2384.00	Rupees two thousand three hundred eighty four only	9536.00
125	4.00 Nos	Supply & erecting metal halide lamp, double ended, 230V, 70W		Each	676.00	Rupees six hundred seventy six only	2704.00
							49363910.40

(Rupees Four Crore Ninety three lakh Six three thousand Nine hundred Ten and paise Forty only)

M/s CHAUDHARY BUILDERS

Proprietor

[Signature]
SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI

FOOTNOTE

NIT. No187/SE-III/TTD/TPT/2013-14

Name of the work :- "Construction of New science block at S.V.College, New Delhi."

Estimated value of contract: Rs. 4,93,63,910.40

(Rupees Four crore Ninety three lakh Sixty three thousand Nine hundred and ten and paise Forty only)


Agreement Value of Contract: Rs. 4,49,65,585.98

(Rupees Four crore Forty nine lakh Sixty five thousand Five hundred and eighty five and paise Ninety eight only)

We, M/s Chaudhary Builders, Delhi. do hereby express our willingness to execute the aforesaid work as per the conditions, standards, specifications, rules, regulations, etc. Stipulated in tender schedules at an over all tender percentage is Less (in figures) (-) 8.91% less and (in words eight point nine one percent less) than the estimated value of contract.

M/s CHAUDHARY BUILDERS


Proprietor


SUPERINTENDING ENGINEER-III,
T. T. DEVASTHANAMS,
TIRUPATI

BILL OF QUANTITIES

Part-II

Details of Maximum amount reimbursable to the Contractor.

- 1) VAT : As per clause 101 of the general conditions.

M/s CHAUDHARY BUILDERS

Chaudhary
Proprietor

T. T. Devasthanams
SUPERINTENDING ENGINEER-III.
T. T. DEVASTHANAMS,
TIRUPATI.

SRI VENKATESWARA COLLEGE : DHAULA KUAN NEW DELHI – 110021

Ref. No. SVC/ New Science Block/2016 | 135-390

13.10.2016

NOTIFICATION

A Monitoring Committee comprising of following members is constituted to coordinate, communicate, execute, decide all aspects related to construction of New Science Block till the completion of the construction work:

- | | | |
|--|---|---------------------------------|
| 1. Dr. P. Hemalatha Reddy | - | Chair Person |
| 2. Dr. R. P. Singh | - | Member |
| 3. Shri Virendra Kumar (A.O.) | - | Member, Ex-officio |
| 4. Convener, DFC | - | Member- Ex-officio |
| 5. Senior Most Faculty (Staff Quarter) | - | Member |
| 6. Mr. Babu Lal | - | In-charge (Garden/Horticulture) |

2. All concerned are requested to make note of this and deal all the matters with the Monitoring Committee related to the construction of New Science Block, accordingly.


(PRINCIPAL)

Distribution:-

- | | |
|-------------------------|---------------------------------|
| 1. Dr. R. P. Singh, | Member |
| 2. Shri Virendra Kumar, | Member, Ex-officio |
| 3. Convener, DFC, | Member, Ex-officio |
| 4. Senior Most Faculty, | Member |
| 5. Mr. Babu Lal, | In-charge (Garden/Horticulture) |

Copy to:

1. The Deputy Executive Engineer, TT Devasthanams, S. V. College Campus New Delhi, for information
2. M/S Chaudhary Builders, Khasra No. 299, Village Gokul Pur, Wazirabad Road, Shahdra Delhi – 110094, for information.

Staff Notice Board/New Science Block File/Caretaker/S.O. (A/Cs)/ S. O. (Admin.)/M.F.



Dr. P. Hemalatha Reddy
Principal

శ్రీ వేంకటేశ్వర కళాశాల
Sri Venkateswara College
(University of Delhi)

Benito Juarez Road, Dhaula Kuan, New Delhi-110021
Ph.: 011-24112196, 24118590, Telefax : 011-24118535
principal@svc.ac.in

Ref.No.SVC/New Science Block/2016

05.10.2016

17

M/s Chaudhary Builders
Khasra No.299, Village Gokul Pur
Wazirabad Road
SHAHDARA
Delhi - 110 094

Dear Sir,

This has reference to the meeting held on 4th October, 2016 in the Principal's office wherein yourself, Shri Gulshan Kumar and TTD Engineer were present to discuss various issues related to the construction of New Science Block.

A copy of the minutes of the above mentioned meeting is enclosed herewith for your information and strict compliance please.

I am furnishing herewith some important issues and the action is taken thereof.

Store Room: You are hereby requested to meet Mr.Sandeep, Caretaker of the college, for the keys of the Rooms in the Auditorium, for storage of Cement and other construction related materials.

Storage of Building materials: Permission has been accorded to use the space available near the canteen side passage of auditorium to keep sand, morang and other building materials in a proper way as indicated in the minutes.

Iron Bars: The Iron Bars may be kept adjacent to Bamboo Rooms (B1 & B2) by the side of boundary wall with proper barricading and as in the way noted in the minutes of the meeting dated 4.10.2016.

Monitoring Committee: As the undersigned informed during the meeting, a Monitoring Committee is constituted and a copy of the notice to this effect is enclosed herewith for your information.

Thanking you,

Yours sincerely
Sd/-
PRINCIPAL

Copy to: The Deputy Executive Engineer, TTD, S.V. College Campus, New Delhi, for information.

The Project Officer, New Science Block, Sri Venkateswara College, New Delhi, for information.

Caretaker, New Science Block file, TTD file, m.f.


PRINCIPAL

135-399

From,
K.Raghuvarma, B.Tech,
Dy.Exe.Engineer,
New Delhi.



Office of the
Dy.Exe.Engineer,
T.T.D. New Delhi.

Roc.No.Pdl/Dy.EE (ND)/TTD/ND/2021

Dt.14.09.2021

To,

The Principal,
SV College,
T T Devasthanams,
New Delhi.

Sir,

Sub:- TTD Eng. Dept. – O/o the Dy.Exe.Engineer (ND) – Construction of New Science block at SV college, New Delhi – work completed in all respects and ready to Utilize the building – information – Reg.

The work for "Construction of New Science block at SV college, New Delhi" was completed in all respects and ready to utilize the building.

Hence, it is requested to take over the building for the subject work and take necessary action to utilize the building:

In The Service of Lord Sri Venkateswara

[Handwritten Signature]
14/09/2021

Dy. Exe. Engineer
New Delhi.

[Handwritten Signature]
14/09/21
A.E.

Copy to file.

SRI VENKATESWARA COLLEGE

(UNIVERSITY OF DELHI)

CONSTRUCTION OF NEW SCIENCE BLOCK

(Smt. Durgabai Deshmukh Block)



Inauguration of Building by Shri Y.V. Subba Reddy, Chairman, TTD & Chairman, College Governing Body in the presence of Dr.K.S. Jewahar Reddy, IAS, Executive Officer, TTD on Dec 29,2020





Unveiling of College Founder Smt Durgabai Deshmukh statue commemorating Diamond Jubilee of Sri Venkateswara College on August 20,2021



Seminar Hall in New Science Block



Science Laboratories





Lift in the New Science Block

