

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Contracts, Duliajan

WORKS CONTRACT

DCC8461P11

DESCRIPTION OF WORK/SERVICE :-

CONSTRUCTION OF FOURTEEN BLOCKS (84 UNITS) OF THREE STORIED Dx TDX) TYPE B'LOW AT DULIAJAN INCLUDING GARAGES,SANITATION, WATER/GAS SUPPLY SYSTEM, PLUMBING ,INTERNAL ROADS,INTERNAL ELECTRIFICATION,ELECTRICAL SUB-STATION,TELEPHONE EXCHANGE ROOM AND SUPPLY OF ALL MATERIALS EXCEPT CEMENT.

GENERAL CONDITIONS OF CONTRACT(GCC)

MEMORANDUM OF AGREEMENT made this _____ day of _____ Between OIL INDIA LIMITED a Company incorporated under the Companies Act 1956 and having its Registered Office at Duliajan in the District of Dibrugarh, Assam (hereinafter called Company) of the one part and Shri/Smti _____ and Shri/Smti _____ carrying on business as partners /proprietor under the firm name and style of M/s. _____ with the main Office at _____ in the District of _____ aforesaid (hereinafter called 'Contractor') on the other part.

WITNESSETH:

1. a) The contractor hereby agrees to carry out the work set down in the Schedule of work which forms part-II of this Contract in accordance with the 1968 General Conditions of Contract of Oil India Limited and General Specifications read in conjunction with any drawings and Particular Specifications & instructions which forms Part-III of the contract utilizing any materials/services as offered by the Company as per Part-IV of the contract at _____ .

b) In this Contract all words and expressions shall have the same meaning as are respectively assigned to them in the 1968 General Conditions of Contract of Oil India Limited which the Contractor has perused and is fully conversant with before entering into this Contract.

c) The clauses of this contract and of the specifications set out hereunder shall be paramount and in the event of anything herein contained being inconsistent with any term or terms of the 1968 General Conditions of Contract of Oil India Limited, the said term or terms of the 1968 General conditions of Contract to the extent of such inconsistency, and no further, shall not be binding on the parties hereto.

2. i) The contractor shall provide all labour, supervision and transport and such specified materials described in part-II of the Contract including tools and plants as necessary for the work and shall be responsible for all royalties and other levies and his rates shall include for these. The work executed and materials supplied shall be to the satisfaction of the Company's Engineer and Contractor's rates shall include for all incidental and contingent work which although not specifically mentioned in this contract are necessary for its completion in a sound and workman like manner.

ii) Contractor shall have to produce necessary cash memos towards forest produce used against the contract to Head(Civil) used against this contract from the authorities prior to processing of final payment. In absence of cash memos, the final bill shall not be processed.

3. The Company's Engineer shall have power to:

a) Reduce the rates at which payments shall be made if the quality of work although acceptable is not

upto the required standard set forth in the OIL Standard Specifications which have been perused and fully understood by the Contractor.

b) Order the Contractor to remove any inferior material from the site and to demolish or rectify any work of inferior workmanship, failing which the Company's Engineer may arrange for any such work to be demolished or rectified by any other means at the Contractor's expenses.

c) Order the Contractor to remove or replace any workman who he (The Engineer) considers incompetent or unsuitable; the Engineer's opinion as to the competence and suitability of any workman engaged by the Contractor shall be final and binding on the Contractor.

d) Issue to the Contractor from time to time during the progress of the work such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound by the same.

e) Order deviations in Part II and III of this Contract. All such deviation orders shall be in writing and shall show the financial effect, if any, of such deviation and whether any extra time is to be allowed. The rates to be applied for such Deviation Order shall be the same for those appearing in Company's Schedule of Rate in force on the date of issue of such Deviation Order, to which the contractor has no objection.

4. The Contractor shall have no claim against the company in respect of any work which may be withdrawn but only for work actually completed under this contract. During the actual execution of the contract, if any, additional items (deviated items) are required, which are not covered in the tender, payments of such items shall be made at the current OIL schedule of rates. In case of positive variation in quantity of any item from the quantity mentioned in the schedule of work during the actual execution of work, the Contractor will have to carryout the positive varied quantity at the contract rate, or Internally estimated rate, whichever is lower.

5. The Company reserves the right to cancel this Contract at any time upon full payment of work done and the value of the materials collected by the contractor for permanent incorporation in the work under this contract particularly for execution of this contract upto the date of cancellation of the Contract. The valuation of the work done and the materials collected shall be estimated by the company's Engineer in presence of the contractor. The Contractor shall have no claim to any further payment whatsoever. The valuation would be carried out exparte if Contractor fails to turn up despite reasonable notice which will be binding on the Contractor.

6. The Contractor hereby undertakes to indemnify the Company against all claims which may arise under the under noted Acts :-

- i) The Mines Act.
- ii) The Minimum Wages Act, 1948.
- iii) The Workman's Compensation Act, 1923.
- iv) The Payment of wages Act, 1963.
- v) The Payment of Bonus Act, 1965.
- vi) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed thereunder.
- vii) Employees Pension Scheme,1995.
- viii) Inter-State Migrant (Regulation of Employment and Condition of Service) Act. 1979.
- ix) The Employees Provident Fund and Miscellaneous Provisions Act, 1952.
- x) AGST Act.
- xi) Service Tax Act.

or any other Acts or Statute not here in above specifically mentioned having bearing over engagement of workers directly or indirectly for execution of work. The Contractor shall not make the Company liable to reimburse the Contractor for the statutory increase in the wage rates of the Contract Labour appointed by the Contractor. Such Statutory increase in the wage rates of Contract Labour shall be borne by the contractor.

7. The Contractor shall clear away all rubbish and surplus material from the site on completion of work and shall leave the site clean and tidy.

8. The Contractor must complete the work within 156 weeks of the written order to commence work. During the currency of the job, the work progress must be commensurate with the time elapsed. In the event of any

delay on the contractor's part, he/she will be liable to pay to the company liquidated damages at the rate of 1/2% (Half p.c) per week of the contract price of the item(s) delayed in completion and the maximum value of the liquidated damage will be 7.5% of the contract price of the item(s) delayed provided the item(s) delayed are not critical for commissioning and final utilization of the work. If, however, the item(s) delayed in completion are critical for commissioning and final utilisation of the work then the contractor will be liable to pay liquidated damages by way of penalty at the rate of 1/2% (Half percent) per week of delay of the total contract cost subject to a maximum of 7.5% of total contract cost.

The Head(Civil)'s certificate as to the criticality or otherwise of an item shall be final.

The payment of liquidated damages/penalty may be reduced or waived at the sole discretion of the Company whose decision in this regard will be final.

In the event of there being undue delay in execution of the Contract, the Company reserves the right to cancel the Contract and / or levy such additional damages as it deems fit based on the actual loss suffered by the company attributable to such delay. The company's decision in this regard shall be final.

9. In order to promote, safeguard and facilitate the general operational economic in the interest of the Company during the continuance of this contract the Contractor hereby agrees and undertakes not to take any direct or indirect interest and or support, assist, maintain or help any person or persons engaged in antisocial activities, demonstration, riots , or in any agitation prejudicial to the Company's interest and any such event taking shape or form at any place of the Company's works or and its neighbourhood.

10. The tendered all-inclusive Price (i.e. the Contract price) is Rs. _____
(Rupees _____

_____ only.) but the Company shall pay the Contractor only for actual work done at the all inclusive rates set down in the Schedule of work part II of this Contract.

On account payment may be made, not oftener than monthly, upto the amount of 92.5% of the value of work done. Final payment will be made only after satisfactory completion of the work . Such final payment shall be based on the work actually done allowing for deviations and any deductions and the measurement shall be checked and certified correct by the Company's Engineer before any such final payment is made.

11. The contractor employing 20 (twenty) or more workmen on any day preceding 12 months shall be required to obtain requisite licence at his cost from the appropriate Licensing Officer before undertaking any Contract work. The Contractor shall also observe the rules & regulations framed under the Contract Labour (Regulation & Abolition) Act.

12. Wages shall be paid by the Contractor to the workmen directly without any intervention of any Jamadars or Thekadars and that the Contractor shall ensure that no amount by way of commission or otherwise be deducted/ recovered by the Jamadar from the wages of the workmen.

13. The Company for any reason whatsoever and of which the company shall be sole judge may terminate this Contract with a 24 hours notice in writing to the Contractor and in the event of Company's so doing the clause 5 here of shall prevail and the accounts between the parties will be in accordance therewith finalised.

14. The Contractor will not be allowed to construct any structure (for storage / housing purpose) with thatch, bamboo or any other inflammable materials within any company's fenced area.

15. The Contractor shall ensure that all men engaged by him/her are provided with appropriate protective clothing and safety wear in accordance with regulation 89(a) and 89(b) in the Oil mines Regulations 1984. The Company's representative shall not allow/accept those men who are not provided with the same.

16. All Statutory taxes levied by the Central and State Government or any other competent authority from time to time will be borne by Contractor and the amount of the contract specified in the contract is inclusive of all tax liabilities. However, any subsequent increase in such statutory taxes after bid opening day will be borne by the Company. Similarly if there is any decrease in such statutory taxes after bid opening, the Company shall recover the decreased amount of such taxes from the contractor.

17. The Contractor shall deploy local persons in all works.

18. The Contractor shall not engage minor labour below 18(eighteen) years of age under any circumstances.

19. The Contractor and his/her workmen shall strictly observe the rules and regulations as per Mines Act. (latest editions).

20. Special Conditions

a) The amount of retention money shall be released after 6(six) months from the date of issue of completion certificate from concerned department.

b) The contractor will be required to allow OIL Officials to inspect the work site and documents in respect of the workers' payment.

c) Contractor(s) whosoever is liable to be covered under the P.F. Act and contract cost is inclusive of P.F., must ensure strict compliance of provisions of Provident Fund and Miscellaneous Provisions Act, 1952 in addition to the various Acts mentioned elsewhere in this contract. Any contractor found violating these provisions will render themselves disqualified from any future tendering. As per terms of the contract, if applicable, the Contractor must deposit Provident Fund Contribution (covering Employee's & Employer's share) with the competent authority monthly under their direct code. The Contractor shall be required to submit documentary evidence of deposit of P.F. Contribution to the Company. In case of failure to provide such documentary evidence, the Company reserves the right to withhold the amount equivalent to 12% P.F. Contribution on wage component.

d) In case P.F. is not included in the contract cost and later on required to be deposited by the Contractor, the same will be reimbursed on production of documentary evidence of depositing the same to the authority concerned. 12% P.F. will be applicable on the wage component of the contract cost.

Based on contractor's declaration regarding P.F. & Wage component in last page of part-II, the same will be incorporated in the contract.

e) All safety precautions to be maintained by the Contractor at his own cost as per safety rules and regulations.

f) The Contractor shall use pump if needed for dewatering of pit while excavation for which no extra payment will be made.

g) The Contractor shall have to work during rainy seasons also.

h) Watch and ward, loss or damage to Company's property, theft and other incidental charges shall be Contractor's responsibility.

i) Efficient workmen to be engaged by the Contractor.

j) The Contractor's representative should report to Engineer-in-charge on all working day's at 7.00 A.M. and 3.00 P.M. for instructions.

k) Materials if rejected should be removed from site within 48(forty- eight) hours of rejection, failing which the Company reserves the right to get the rejected materials removed at the risk and cost of the Contractor.

l) The Company reserves the right to get the part or whole work complete at the risk and cost of the Contractor if he fails to complete the work within the stipulated time without any valid reason. The Company's decision shall be final and binding on the Contractor.

m) The Contractor shall obtain labour clearance within 7(seven) days of signing the Contract.

n) Water that may accumulate on the site during progress of the works or in trenches and excavations from other than accepted risks shall be removed from the site to entire satisfaction of the Engineer-in-charge and at the Contractor's expense.

o) The Contractor shall be in a position to execute 2(two) locations simultaneously.

p) If required, the Contractor shall have to work in two shifts for which no extra payment will be admissible to him/them.

q) If needed water and electricity will have to be arranged by the Contractor at his own cost.

r) The Contractor and his workmen are to be strictly observed the safety precautionary rules as per Mines Act (Latest edition) while executing the work.

s) The Contractor shall have to provide temporary latrine facilities in all the entire work site for use of their workmen during progress of work.

t) The contractor himself (the signatory of the contract) must visit the site at least twice in a week as fixed for taking necessary instruction from the Engineer-in charge.

u) The program of works to be submitted in the form of Bar Chart within 3 days of receipt of work order. work. twice in a week for necessary technical guidance and advices from Engineer- in-charge or site-in-charge.

21. SPECIAL INSTRUCTION

The contractor must quote considering the prevailing minimum Labour wage rate for each day of work. The Contract cost is based on minimum wage of 0.00 ().

22. ARBITRATION :

Any dispute under this contract will be settled through Arbitration as per Indian Arbitration and Conciliation Act, 1996.

Place of Arbitration : DULIAJAN .

23. FORCE MAJEURE :

Force Majeure (exemption) Clause of the International Chamber of Commerce (ICC Publication No. 421) is hereby incorporated in this contract.

24. LB. VERIFICATION REPORT AND SECURITY REVIEW :

Contractor will be required to submit the verification report to ascertain character and antecedents from the Civil Administration towards the persons engaged under this contract to the Head of the user Department before engagement.

25. In case of any doubt or dispute as to the interpretation of any clause herein contained, the decision of the Company's Engineer shall be final and binding on the contractor.

26. SET OFF CLAUSE :-

"Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited)."

27.0 FURNISHING FRAUDULENT INFORMATION/DOCUMENT:

If it is found that a Bidder/Contractor has furnished fraudulent document/information, the Bid Security/Performance Security shall be forfeited and the party shall be debarred for period of 3(three) years from date of detection of such fraudulent act, besides the legal action.

28.0 LIQUIDATED DAMAGES FOR DELAY IN MOBILISATION AND/ OR COMPLETION OF WORKS AND SERVICES

28.1 In normal case of works /service contracts, liquidated damages will be applicable @ 0.5% of the contract value per week or part thereof, for delay in contract mobilization /completion date subject to a maximum ceiling of 7.5% of contract value .

IN WITNESS whereof the parties hereunto set their hands seals the day and year first written above :-

SIGNED & DELIVERED FOR AND ON BEHALF OF

(Signature of Contractor or his legal Attorney)

----- by the hand

(Full Name of Signatory)

of -----
its Partner/Legal Attorney

(Seal of Contractor's Firm)

And in presence of

(Signature of witness)

Date : _____

(Full Name of Signatory)

Address:

(Signature of Acceptor)

SIGNED & DELIVERED FOR & ON BEHALF OF OIL INDIA LIMITED

Designation _____

Date_____

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Contracts, Duliajan

Tender No. DCC8461P11

SOQ - Schedule of Work, Unit, Quantities, Rates and Prices.

Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
GROUP A						
SECTION A						
Labour supervision and related transport wherever applicable						
10	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth 1.5 m in width as well as 10 sq m on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m , disposed earth to be neatly levelled and dressed. all kinds of soil.	Cubic meter	4,759.000	141.91		
20	Filling available excavated earth (excluding rock) in trenches,plinth sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering , lead upto 50 m and lift upto 1.5 m.	Cubic meter	2,601.000	63.67		
30	Collecting / excavating sand, soil, silt, ordinary earth from any source, load into lorries, transport it to distant place of work including procuring earth and laying in layer of 150mm thickness and dry ramming, profile properly made for taking measurement, including all measurable lead upto 30m and lift as required. (The	Cubic meter	25,731.800	175.25		

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40	contractor shall be responsible for all formalities of supply of earth such as purchase of land including royalties, monopoly / other statutory taxes as required from any distance.) Dressing & levelling the ground surface including removing grass & undergrowth with necessary cutting & filling earth, if any, upto 150mm. depth including disposal of rubbish, lead upto 50 m outside of periphery in all kinds of soils.	Square meter	9,035.000	7.14		
50	Cement concrete work (hand mixed) in foundation, floor, sill including screening of aggregates (Boulder broken stones 18-12MM)), mixing, laying and ramming (1:3:6 proportion of mix) and including casting floors in panels, where required and as directed and including curing	Cubic meter	589.060	2,400.73		
60	Cement concrete work (hand mixed) D.P.C.(1:2:4) including screening of aggregates (Broken stones 6MM-2MM), mixing, laying and ramming and as directed and including curing WITH 3% CICO by volume of cement..	Square meter	212.400	129.28		
70	Cement concrete work (hand mixed) in R.C.C.(Prop	Cubic meter	2,916.100	3,193.93		
Contractor			2			Company

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80	1:1.5:30)including screening of aggregates (B/broken Stone 18mm-12mm) excluding shuttering & reinforcement including provision of all scaffolding for lift involved and including curing. Cement concrete work in R.C.C.(Prop 1:1.5:30)including screening of aggregates (B/broken Stone 18mm-12mm)upto a height / depth of 4.00m from G.L. excluding shuttering & reinforcement including provision of all scaffolding for lift involved and including curing but concrete work done by machine mixing (Mixture Machine and Vibrator Supplied by Contractor, including operator and POL).	Cubic meter	2,099.500	3,112.42		
90	Brick work in cement mortar with 1:5 PROP OF mix, for foundation and super structure, including necessary soaking of bricks, raking out joints and curing etc. complete for brick work upto plinth level from ground level.	Cubic meter	430.200	2,564.37		
100	115mm thick brick work in cement mortar (Prop 1:5)above plinth level including raking out	Square meter	14,023.000	355.18		

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110	<p>joints, making and removing scaffolding, staging or working platform, where necessary and curing as directed.</p> <p>6mm thick cement sand plaster of prop 1:3 sponge finished on all jobs including ceiling with staging where necessary and curing, hacking old surface, rounding off corners etc complete.</p>	Square meter	22,980.000	63.58		
120	<p>12 mm thick cement plaster (In prop. 1 cement : 3 sand) trowelled smooth finished including making and removing of staging, working platform where necessary including curing and hacking old surface, rounding off corners etc.</p>	Square meter	1,757.000	73.75		
130	<p>12mm thick cement sand plaster of prop 1:5. Sponge finished on all jobs including ceiling with staging where necessary and curing, hacking old surface, rounding off corners etc. complete</p>	Square meter	37,975.000	84.88		
140	<p>Cement concrete work (hand mixed) in foundation, floor, sill and D.P.C. including screening of aggregates (stones or brick), mixing, laying and ramming (any proportion of mix) and including casting floors in panels,</p>	Cubic meter	84.000	2,532.25		

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	where required and as directed and including curing for quantities not exceeding one cubic metre. (Shuttering will be paid extra).					
150	13mm thick colourcrete topping on floor, Dado and skirting in proportion 1 : 3.	Square meter	6,439.000	135.99		
160	40mm thick granolithic floor with cement sand and stone chips 6mm to 10mm size in prop. 1cement : 1 1/2 sand : 3 stone chips(6mm to 10mm size), finished smooth with steel trowel including curing and panel shuttering in panels of 5 sq. m or less.	Square meter	1,241.000	162.25		
170	Cement plastered skirting 18mm thick in prop. 1:3 with plain / neat cement finish over whole area, including curing complete.	Square meter	189.250	146.99		
180	Supplying, Making, fixing and striking timber shuttering for concrete work except for D.P.C. and floor panel. Job including fixing bracing and necessary props, runners and base supports as per instructions etc. All bracing, runners, base supports and props are part of contractor's accessories for which no	Square meter	2,324.000	226.62		

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190	<p>separate payment will be made, including supply of shuttering timber,wire nails etc.</p> <p>Supplying,Making, fixing and striking timber shuttering for concrete work except for D.P.C. and floor panel. Job including fixing bracing and necessary props, runners and base supports as per instructions etc. All bracing, runners, base supports and props are part of contractor's accessories for which no separate payment will be made,including supply of timber shuttering,wire nails etc.With STRONG BRACING.</p>	Square meter	26,562.000	261.03		
200	<p>Supplying fixing factory made ISI marked metal glazed doors,windows and ventilators side/top/centre hung with beading and all members complete with standard rolled sections, joints mitred and flash butt welded and sash bars tenoned and embedded in cement concrete or with wooden plugs and screws or with fixing clips or with bolts and nuts as required including providing fixing of pivots ,glass panes with glazing clips and special metal sash putty of</p>	Kilogram	31,440.000	249.26		

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210	approved make and a primer coat of approved steel primer on brick wall including cutting brick wall where necessary and fitting fixing complete. Supplying fixing I R C fabric 4.75mm and 75 sq mesh to metal glazed window/ventilator by spot welding at points not more than 15cm apart.	Square meter	1,576.000	374.36		
220	Supplying Fixing timber door frame of 1st class hollock timber(100mm X 75mm size) to brick wall for single or double leaf door including cement concrete block for hold fasts and cutting brick work where necessary.	Cubic meter	27.100	43,665.19		
230	Providing and fixing M S round holding down bolts with nuts and washer plates complete.	Kilogram	267.000	72.52		
240	Supplying Hanging double leaf ISI marked flush door shutters conforming to IS: 2202(part I)core of block board construction with 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thk including ISI marked stainless steel butt hinges with necessary screws.	Square meter	920.000	2,053.03		

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250	Supplying Hanging single leaf ISI marked flush door shutters conforming to IS: 2202(part I)core of block board construction with 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thk including ISI marked stainless steel butt hinges with necessary screws.	Square meter	138.000	1,972.15		
260	Supplying Hanging single leaf ISI marked flush door shutters conforming to IS: 2202(part I)core of block board construction with 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 25 mm thk including ISI marked stainless steel butt hinges with necessary screws.	Square meter	240.490	1,835.88		
270	Providing and fixing 150 x 10 mm aluminium tower bolts of ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transperant or dyed to required colour or shade with necessary screws etc complete	each	1,596.000	59.56		

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280	Providing and fixing 150mm aluminium door handle ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transperant or dyed to required colour or shade with necessary screws etc complete	each	2,800.000	67.99		
290	Providing and fixing bright finished brass casement stays (Straight peg type)with necessary screws etc complete- 200mm weighing not less than 240 gms	each	252.000	81.93		
300	Providing and fixing approved steel plate door with MS hinges , bolts and frame complete as per direction of site Engineer.	each	28.000	3,416.02		
310	Providing and fixing 300 x 16 mm aluminium sliding door bolts of ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transperant or dyed to required colour or shade with necessary screws etc complete	each	168.000	220.84		
320	Providing wood work in frames of doors, windows and fixed in position - kiln seasoned and chemically treated Hollock wood.	Cubic meter	4.000	43,665.19		
330	Supplying Hanging ISI marked Block Board door shutters conforming to IS: 2202(part I)with 1st	Square meter	364.000	1,835.88		

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	class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 25 mm thk including ISI marked nickel plated bright finished M S Piano hinges ISI : 3818 marked with necessary screws.					
340	Supply fixing Brass Hasp staple 100mm size of approved brand with necessary screws etc complete	each	168.000	69.46		
350	Providing and fixing special quality magnetic catcher in cupboard / ward drobe shutters including fixing with necessary screws etc. complete(Best make of approved quality)	each	336.000	20.41		
360	Dressed timber work by thoroughly dressing / planning both sides of timber and edges, making joints by grooving and nailing, screwing and fixing in required size for cup-board shelves, including supply of timber complete.	Square meter	423.000	582.96		
370	Supplying Erecting C.I. sheet roof on plane apex or Arch roof (straight work) on steel purlin by "J" or pipehook and bitumen washer etc. complete as directed	Square meter	2,747.000	602.25		

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380	including cutting of sheets where necessary.(thickness-0.63mm; Make TATA/SAIL) Supplying Erecting ridging on on steel purlin by 'J' and pipe hooks, washers, bitumen washer etc.(0.63mm thk)	Meter	426.000	377.51		
390	Making standard size gutter half round or semi trapezoidal with plain sheet including cutting edges and shaping to required size with iron brackets 40x3mm size, bolts, nuts and washers etc.including making necessary connections with rain water pipes complete.	Meter	562.000	345.82		
400	Supplying fitting and fixing PVC pipes of 6kgf/cm ² (supreme/Prince) or other ISI approved including joining,fitting and fixing with clamps etc. aas necessary complete at all levels including below GL as directed and specified.	Meter	1,800.000	227.66		
410	Semidressing, making and fixing chicken wire net framing at eves of CI sheet or Asbestos sheet roof with 50mm x 25mm or 75mm x 25mm timber frame and 20mm x 12mm beading inside including making the frame to fit exactly with corrugation.	Square meter	120.000	490.37		

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420	Making and fixing Gable End Louvers from 1st class hollock timber including Plain GI sheet flushing complete as per direction of engr-in-charge.	Square meter	28.000	770.59		
430	Supplying Dressing and planning one side of 75mm x 50mm timber scantling, making timber frame for ceiling by grooving and jointing by nailing and using required cut pieces in joints in proper level and fitting with hard board of 12 mm thk of approved brand and making timber strips (by dressing and planning 50mm x 13mm size timber and fitting dressed timber strips) in straight line over the joints and in frames by nailing in panels not exceeding 1.44 sq. m.	Square meter	2,807.000	738.04		
440	Supplying Erecting fabricating light steel work (tubular pipes etc. weight not exceeding 15 Kg per metre length) all bolted connections upto 12.00m height by using chain pulley block, (gin pole and other equipments to be supplied by contractor) including lifting of materials and staging as required.	US ton	64.060	58,727.60		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
450	Supplying Straightening, cleaning, cutting and bending to proper shape and length reinforcement bars for R.C.C. work and placing in proper position as per details by binding with 20G annealed black wire with cover blocks, supports, chairs, spacers etc. ready for laying concrete as directed including making and placing of C.C. blocks."	Quintal MS / TS	4,277.000	5,782.20		
460	Supplying Making and fixing pelmets with plywood of 18mm thick 150mm wide pelmet of coir veneer board ISI marked IS : 14842-2000 including top cover of 6 mm coir veneer board MS pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25x3 mm MS flat 10 cm long and rawl plug 50 mm long etc all complete.	Meter	1,350.000	430.75		
470	Timber hand Rail from 100 mm x 60mm 1st class seasoned timber hollock/bonsum scantling with moulded top rails and horizontal type railings complete as per drawing and instructions.	Meter	199.000	414.96		
480	Manufacture of R.C.C. slab upto 40mm thick including cutting & fixing	Cubic meter	9.240	9,292.06		

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	X.P.M. sheet / M.S. reinforcement, mixing & laying cement concrete of prop. (1 cement : 2 sand : 4 graded stone chips), including provision of lifting arrangement, shuttering works (making, fixing & removal), top of slab to be trowel finished and bottom & edges fair finished including curing etc. complete.					
490	Cutting 75mm to 100mm square hole through 115mm thick brick wall using chisel and hammer for crossing electric wiring, gas or water line etc. and making good with cement mortar after the pipe is laid.	each	985.000	32.24		
500	Construction of standard Gas chulla as per DRG no OIL/5206 complete in all respect including supplying and fitting all accessories, mosaic work gas chulla manifold, gas valve, burner.	each	84.000	5,997.14		
510	Supplying and fixing MS grill (45mm x 6mm flat @ 2.1 kg/m) for Veranda and staircase to correct plumb, design as per particular drawing and specification complete.	Kilogram	12,555.000	58.73		
520	Making fixing Chrome Plated coat hanger of approved brand (Sona/Agmeco) 3nos on timber bead of length	Set	168.000	221.33		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
530	1.00m Cement brick work (in prop. 1 cement : 6 sand) for trapezoidal section drain of top width 525mm x bottom width 225mm x 150mm height, bricks laid flat over 25mm thick bedding (1 cement : 8 sand) and 13mm thick neat finish on inside plaster (1 cement : 3 sand) and in top edges curving, rounding etc. including necessary excavation to required size, dressing, grading, ramming and levelling and curing complete.	Meter	2,445.000	239.39		
540	Supplying fixing fitting white vitreous china pedestal type European Type WC(IS mark Embossed) with seat and lid 10 Litre low level white PVC flushing cistern with manually controlled device(handle lever)conforming to IS:7231 with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. Hindware Make./Parryware make/Cera make	each	84.000	2,967.73		
550	Providing and fixing water closet squatting pan (white vitreous china Orissa type W.C pan of size 580x440mm) with 100 mm sand	each	84.000	3,179.72		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
560	cast Iron P or S trap,10 litre low level white PVC flushing cistern with manually controlled device(handle lever) conforming to IS : 7273 with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. Approved Make-Hindware/Parryware/Cera Providing and fitting fixing vitreous china flat back Wash Hand Basin IS mark Embossed conforming to IS:2556 (part1)630 x 450 mm with CI brackets, 15 mm CP brass pillar taps ,32 mm CP brass waste of standard pattern including painting of fittings and brackets,cutting and making good to the walls mounted on CI brackets . Approved make Hindware/Parryware/ Cera.	each	252.000	1,658.65		
570	Supplying fixing Stainless steel Kitchen sink with drain board of size(1015x535x230)mm and 0.8 mm gauge of Parryware/Cera make with CI brackets and stainless steel plug 40mm including painting of fittings , cutting and making good the walls and slabs wherever required.complete with	each	84.000	4,837.05		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
580	draining board,fixing bracket,CP standard waste. Providing and fixing 600 x 450 mm bevelled edge bathroom mirror of	each	252.000	687.80		
590	approved brand complete . Supplying fixing Standard glass shelves with CP guard rail of	each	252.000	304.85		
600	Agmeco/Sona make or approved brand to wall complete fixed with 25 mm long screw, rawl plug etc. complete. Size (600x125)mm Providing fixing CP soap (rectangular) rack of	each	252.000	248.80		
610	approved brand. Providing fitting fixing overhead chrome plated (CP) spray shower	each	168.000	299.34		
620	without arms 15 mm dia of Agmeco make or approved brand as directed and specified. Providing fitting fixing PTMT towel rail of approved brand complete with	each	252.000	459.09		
630	brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved brand and quality. CP towel rail of 600 mm long with total length 645mm, width 78mm and effective height of 88 mm, weighing not less than 190gms. Providing fixing 15mm nominal bore CP bibcock,pillar	each	840.000	288.41		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
640	cock,stop cock of approved brand at water supply points. conforming to IS:8931 Supplying Laying, fitting and fixing 25mm dia. galvd. iron pipe (med wt.)including fitting, fixing and making threading of pipes where required and fitting, fixing valves line fitting etc. as directed for permanent work including testing of pipe line complete.	Meter	1,000.000	250.31		
650	Supply Laying, fitting and fixing 20mm dia. galvd. iron pipe (med wt.)including fitting, fixing and making threading of pipes where required and fitting, fixing valves line fitting etc. as directed for permanent work including testing of pipe line complete.	Meter	1,900.000	186.49		
660	Supplying Laying, fitting and fixing 15mm dia. galvd. iron pipe(med wt.) including fitting, fixing and making threading of pipes where required and fitting, fixing valves line fitting etc. as directed for permanent work including testing of pipe line complete.	Meter	3,200.000	147.48		
670	Providing and fixing brass ball valve 25 mm dia of approved quality	each	84.000	411.84		
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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
680	<p>complete. Construction of standard junction box for doubleunit type latrine (minimum clear size 215mm length of both ends x 400mm length of one side and height equal to plinth height of the building) with 115 thick brick wall in cement mortar (In prop. 1 cement : 5 sand) with proper jointing to brick work in plinth of building and necessary C.C. work (1 cement : 3 sand : 6 stone chips) in the bottom for draining facilities and in the top surface of brick wall for holding slab and keeping proper inlet and outlet holes for soil lines including neat cement plaster (In prop. 1 cement : 3 sand) both inside and outside with provision of minimum 50mm thick R.C.C. (1 cement : 2 sand : 4 stone chips) slab cover (minimum size 325mm x 450mm) using XPM or IRC sheet including straightening, cutting, placing in position of XPM / IRC sheet and placing the already cast slab cover in grooves at the top surface of brick work including</p>	each	28.000	1,405.10		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
690	fitting vent pipe (CI 50mm) with cowl &necessary clamps etc. including curing complete in all respects. Supplying Laying, jointing of approved quality PVC pipe of 100mm to 150mm diameter (Supreme/Prince) or other ISI approved in trenches, maintaining proper slope and alignments as per drawing, specification and direction including jointing of pipes with spun yarn soaked in CEMENT SLURRY & cement mortar 1:2 complete.	Meter	1,654.000	301.03		
700	Supplying Laying, jointing of approved quality PVC pipe of 100mm diameter (Prince/Supreme) or ISI approved brand including joining fitting and fixing with clamps etc. as necessary complete at all levels including below ground level as directed and specified.	Meter	650.000	519.25		
710	Supplying Laying, fitting and fixing 15mm dia. MS pipe including fitting, fixing and making threading of pipes where required and fitting, fixing valves line fitting etc. as directed for permanent work including testing of pipe	Meter	1,110.000	110.96		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
720	line complete White washing on wall / ceiling, three coats at any height to give an even shade including thoroughly brooming and cleaning the surface to remove all dust, dirt, mortar drops, foreign materials etc. (One coat consists of white washing the surface in one direction and then leaving the surface to dry and applying the white washing in right angle to previous direction to get one even shade.	Square meter	20,139.000	9.40		
730	Painting with two coats (excluding priming coat) with high gloss enamel paint of approved brand and manufacture (Asian/Berger/ICI/Nerolac/J &N) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter sand papering and stopping.	Square meter	2,807.000	46.33		
740	Applying Robbiacem or Snowcem, two coats on wall to give an even shade, including thoroughly brushing the surface to remove all dust, dirt, foreign materials, mortar drops, loose materials, providing necessary scaffolding working platform and curing etc. complete.	Square meter	15,086.000	42.91		

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750	Wire brushing, scrapping, brooming, cleaning, removing all dust, dirt, mortar drops, loose materials etc. from the surface of steel work and applying two coats of paint over steel work at any height to give an even shade. Surface shall be free from grease, efflorescence and these should be removed prior to painting.	Square meter	7,063.000	71.48		
760	Varnishing timber-work including preparing surface (i.e. sand papering, filling holes with putty etc.) two or more coats of glue sizing with copal varnish over and under coat of flatting varnish to give an even shade at any height.	Square meter	5,400.000	70.78		
770	Distemping painting, two coats by using hand brush without leaving any brush mark, including necessary brooming, cleaning, sand papering lightly as necessary on existing surface at any height as directed (one coat of painting consists painting the surface in one direction and then left the wall for drying up and applying paint in right angle to previous direction to get an	Square meter	20,280.000	36.64		

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780	even shade). Excavating trenches in ordinary soil for laying soil lines / pipes etc. above 1m. deep, bottom properly graded, levelled to required gradient with light ramming and bailing out water where necessary and depositing soil as directed.	Cubic meter	1,135.000	98.16		
790	Construction brick masonry circular type manhole 0.91 internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement: 4 coarse sand) in side cement plaster 12 mm thk with cement mortar 1:3 finished with floating coat of neat cement, foundation concrete 1:3:6 mix and making necessary channel in cement concrete (1:2:4) finished with a floating coat of neat cement all complete as per standard design with	each	84.000	5,149.64		
800	FPS bricks designation 75. Placing bricks on edges on foot path in angle not more than 45 degree side by side in straight line and required curve including necessary earth cutting (depth not more than 115mm) for placing the bricks and including light ramming in	Meter	1,260.000	22.64		

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810	the sides to keep the bricks vertically in firm position. Supplying ,fabricatin,Erecting maximum size of 1.22m wide steel gate complete with C.C. base 40cm x 40cm x 50cm in 1 : 3 : 6 concrete. Height of gate 1.22m	Kilogram	1,498.560	64.58		
820	Supplying Straightening, necessary cleaning, cutting, lifting, including digging holes, erecting posts and fixing woven wire / Jingle wire fencing with binding wire on ready made R.C.C. posts at 2.50m interval, excluding concrete work on post. (Fencing height upto 1.00m).	Square meter	2,100.000	520.33		
830	Supplying fixing one line of Barbed wire to Jingle wire fencing.	Meter	2,100.000	8.15		
840	Construction of Septic tank for 50 User As per OIL DRG No 2760 complete with soak pit	each	14.000	21,673.47		
850	Making & supplying at work site standard R.C.C. (1 : 2 : 4) boundary pillars of triangular section 1.60m long, and sides of 125mm including supply of aggregate, sand & shuttering ; straightening, scraping, cutting & bending, placing reinforcement (reinforcement	Cubic meter	21.000	14,870.83		

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860	<p>to be supplied by company) by using three nos. of 8mm dia. main bar and 6mm stirrups @ 200mm centre to centre with provision of covers, covering blocks etc. complete including curing.</p> <p>Making and supplying at work site standard R.C.C. (1 : 2 : 4) corner pillars of square section 2.00m long, and sides of 100mm including supply of aggregate, sand and shuttering ; straightening, scraping, cutting, bending and placing reinforcement (reinforcement to be supplied by company) by using 4 nos. of 8mm dia. main bar and 6mm stirrups @ 200mm centre to centre with provision of covers, covering blocks etc. complete including curing as directed.</p>	Cubic meter	4.500	14,870.83		
870	<p>Providing and laying as per required design and level, best quality CERAMIC FLOOR tiles of minimum 6 mm thickness (sufficiently soaked in water before laying) with necessary internal / external angles, corner piece, elephant leg etc., at various elevation of flooring/plat-form</p>	Square meter	1,354.000	801.02		

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	over 10mm thick bedding plaster (1 cement : 3 sand) over clean hardened concrete/ plaster base free from loose material, mortar droppings etc., pointing with white or coloured pigment mixed with white cement, curing, finishing etc. complete. Size: 300 x 300 x 6mm Make: Preferred make Somany/kajaria/Bell Colour : As per direction from Engr-in-charge					
880	Same as above 870, but glazed tiles for skirting / Dado etc. including necessary plat-form / staging etc. complete. size as directed by Engineer in charge.	Square meter	3,751.000	697.64		
890	Supplying ,fixing fan hook of 12mm dia MS rod.	Kilogram	240.000	57.82		
900	Applying one coat of approved primer including preparation of surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering etc. complete at any height.	Square meter	20,341.000	23.06		
910	Fixing glass panes (FROSTED), medium size (over 1300 sq. cm) on METAL GLAZED WINDOW AND VENTILATORframes with glazing pin and putty.	Square meter	100.000	456.85		
920	Construction of standard salamander plinth not more	each	42.000	1,917.04		

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930	<p>than 800mm outside dia. and not less than 250mm inside dia. and height 230mm from ground level with brick work in cement mortar (in prop. 1 cement : 4 sand) and brick work 200mm below ground level over 50mm thick cement concrete (1 cement : 3 sand : 6 stone chips) bedding and neat cement plaster 13mm thick inside and outside on exposed surfaces, rounding off corners including necessary earth cutting, ramming curing etc. and keeping gap in plinth to facilitate fitting of burner, including placing and fixing salamander cooking stove over the plinth and fitting burner and joining with existing pipe line etc. complete.</p> <p>Supplying/Fitting / fixing / placing salamander water heater on readymade plinth for size 22 / 45 gallons capacity including fixing overflow / steam pipe and connecting cold water inlet and hot water outlet pipes already laid.</p>	each	42.000	20,118.60		
940	Wire brushing, scrapping, brooming, cleaning, removing all dust, dirt,	Square meter	5,306.000	71.48		

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950	mortar drops, loose materials etc. from the surface of steel work and applying two coats of paint over steel work at any height to give an even shade. Surface shall be free from grease, efflorescence and these should be removed prior to painting. Providing and placing PCVC tank over the steel frame staging	each	42.000	11,670.12		
960	Wire brushing, scrapping, brooming, cleaning, removing all dust, dirt, mortar drops, loose materials etc. from the surface of steel work and applying two coats of paint over steel work at any height to give an even shade. Surface shall be free from grease, efflorescence and these should be removed prior to painting.	Square meter	617.000	71.48		
970	Dismantling cement concrete of weaker proportion (prop. Less than 1: 2 : 4) using hammer & chisel & carrying the dismantled concrete to places upto 15m away at any height.	Cubic meter	591.000	513.36		
980	Dismantling, removing metal / timber door shutter single or double leaf from frame including hinges and fittings.	each	880.000	76.07		

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990	Dismantling cement brick work upto 1.50m (or part thereof) height and clearing site, stacking dismantled materials within 30m including making required staging / working platform.	Cubic meter	994.000	432.97		
1000	Removing lath plaster of wall panels with due care for renewing timber frame including removal of debris / cleaning site as directed	Square meter	15,983.000	7.90		
1010	Dismantling and removing C.I. sheet from roof or wall including ridging and gutter by properly unscrewing etc. and stacking at a place within 30m distance including all lift etc.(upto 8.00m height)	Square meter	8,361.000	34.41		
1020	Dismantling timber work in buildings and removing and stacking dismantled timber materials as directed.	DM3	239,100.000	0.92		
1030	Dismantling light steel work upto 8.00m height and stacking the dismantled materials at site upto 30m distance	US ton	29.000	835.98		
1040	Dismantling 3.00m wide steel gate (single or double leaf) from existing post including removal and stacking at site as directed.	US ton	4.000	835.98		
1050	Dismantling of water closet with 'P' or and 'S' trap complete including	each	80.000	375.23		

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1060	cutting and making good all damages in wall and floor. Dismantling kitchen sink / hand wash basin and outlet including cutting the floor, walls and making good to the walls, floors, posts where necessary and depositing the materials to the company's godown after recovery.	Set	160.000	139.46		
1070	Dismantling 15mm / 20mm / 25mm dia. Galvanised / Black steel pipe complete with all fittings meant for temporary socio-religious welfare works and depositing the same at the company's godown.	Meter	2,400.000	34.69		
1080	Dismantling gas burner with casing up to a size of 300mm dia. meant for temporary socio-religious welfare works and depositing the same at Company's godown.	Set	160.000	21.64		
1090	Dismantling woven wire / jingle wire fencing with post and rolling, collecting and stacking dismantled material as directed in a place ready for transport.	Square meter	3,776.000	45.66		
1100	Supplying fitting and fixing 87.5 degree 110 mm PVC bend with door of (Supreme/Prince) or other ISI approved including joining, fitting and	each	112.000	222.74		

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1110	fixing etc. as necessary complete at all levels for toilet/bath. Supplying fitting and fixing 110 mmx110mm PVC cross T with door of (Supreme/Prince) or other ISI approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for toilet/bath.	each	56.000	486.46		
1120	Supplying fitting and fixing 110 mm PVC coupler with door of (Supreme/Prince) or other ISI approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for toilet/bath.	each	28.000	140.34		
1130	Supplying fitting and fixing 87.5 degree 110mm PVC bend without door of (Supreme/Prince) or other ISI approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for Kitchen outlet.	each	84.000	189.78		
1140	Supplying fitting and fixing 87.5 degree 110mm PVC bend with door of (Supreme/Prince) or other ISI	each	84.000	222.74		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1150	approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for Kitchen outlet. Supplying fitting and fixing 110mm PVC single T with door of (Supreme/Prince) or other ISI approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for Kitchen outlet.	each	84.000	287.30		
1160	approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for Kitchen outlet. Supplying fitting and fixing 110mm coupler of (Supreme/Prince) or other ISI approved including joining,fitting and fixing etc. as necessary complete at all levels including belowm G.L as directed and specified for Kitchen outlet.	each	42.000	140.34		
1170	Providing fitting & fixing 100mm dia C.P gratings to the floors complete.	each	252.000	65.00		
1180	hite washing on wall / ceiling,one coat at any height to give an even shade including thoroughly brooming and cleaning the surface to remove all dust, dirt, mortar drops, foreign materials etc. (One	Square meter	14,449.000	3.83		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1190	coat consists of white washing the surface in one direction and then leaving the surface to dry and applying the white washing in right angle to previous direction to get one even shade. Cement concrete grouting in prop. 1 cement : 1 sand : 1.5 stone chips with 6mm to 2mm down chips including curing etc. complete.	Cubic meter	0.100	3,068.59		
1200	Manufacture of R.C.C. slab upto 50mm thick including cutting & fixing X.P.M. sheet / M.S. reinforcement, mixing & laying cement concrete of prop. (1 cement : 2 sand : 4 graded stone chips), including provision of lifting arrangement, shuttering works (making, fixing & removal), top of slab to be trowel finished and bottom & edges fair finished including curing etc. and laying the precast slab as directed complete.	Cubic meter	0.650	9,530.31		
1210	Laying flat brick soling 75mm thick on 25mm thick sand-bed including leveling the sand-bed, grouting, soling with cement mortar, local handling of bricks and curing	Cubic meter	2.550	2,564.37		

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1220	complete. Cutting hole 75-100mm through through 115mm thick brick wall up to 1.50m height.	each	5.000	26.61		
1230	Providing and fixing 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3 mm MS gusset plate at the junctions and corners, all necessary fittings complete including one coat of primer.	Square meter	14.720	2,362.20		
1240	Fixing metal glazed big sized ventilator with lugs on brick wall including cutting brick wall where necessary and fitting, fixing etc. complete.	Kilogram	100.000	58.73		
1250	Fixing metal glazed small sized ventilator with lugs on brick wall including cutting brick wall where necessary and fitting, fixing etc. complete.	Kilogram	70.000	58.73		
1260	Fixing Expanded metal partition wall with lugs on brick walls including cutting brick work, where necessary and fittings, fixing etc. complete as per direction of site Engineer.	Kilogram	245.000	58.73		
1270	Construction of Water Bound Macadam (WBM) base course 75mm + 75 mm + 100 mm thick (Wearing course) and Surfacing Course (sealing	Square meter	5,033.000	44.95		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1280	coat) with loose hand broken metal of size 60mm graded down to 40mm, rolled dry to proper compaction, grade and camber and wet rolling after placing bindage of loamy earth and finally sealing the compacted surface with a 25mm thick layer of sand shingles as per specification 'E' in Part-II and as directed as applied over new consolidated surface. (Road roller supplied by contractor) Preparation of consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth ,dressing to camber and consolidating with road roller including making good the undulation etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	Square meter	5,752.000	47.23		
1290	Laying spreading and compacting stone aggregates of specified sizes to WBM specifications including spreading in uniform thickness,hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne in	Square meter	1,019.000	268.28		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1300	<p>stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up interstices of coarse aggregate watering and compacting to the required density. Road roller to be supplied by Contractor</p> <p>Providing and applying tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications.</p>	Square meter	3,955.000	9.79		
1310	<p>Labour for pre-mix carpeting of 2cm thick with chips or pea-gravels and bitumen over a tack-coat after cleaning the road surface with wire brush, brush broom and fanning with gunny bag etc., heating the bitumen to proper temperature, mixing 13mm and 10mm size chips or pea gravels in the ratio 2:1 by volume, heating the aggregates suitably adding bitumen at 9.50Kg per 10 sq. m or 52Kg per cubic metre of 13mm chips or pea gravels and 5.10Kg per 10 sq. m or 56 Kg per cu. m of 10mm</p>	Square meter	3,955.000	83.39		

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	<p>chips or pea gravels preferably in a mechanical mixer or by other mixer of approved type until the chippings or pea gravels are thoroughly coated with binder, spreading the pre-mix with rakes to the desired thickness and camber immediately after applying the tack coat at 8.60 Kg per 10 sq. m over the WBM surface or at 6.10 Kg per 10 sq. m over the existing bituminous surface, checking the camber by templates, evening out irregularities and rolling the surface with a roller of 8 to 10 ton capacity, wetting the wheels of the roller to prevent pre-mix from sticking and continuing rolling till the pre-mix is compacted. High and low spots observed are to be corrected by adding or removing pre-mix chipping or pea gravels, excess rolling to be avoided, including carriage of pea gravels within 1Km and bitumen from company's store or yard to the site of the work, including labour for tack coat over. (Road</p>					

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1320	roller supplied by the contractor). Using hot-mix plant (6 or 10 TPH) for Water Bound Macadam surface. Labour for liquid seal coat over the pre-mix carpet with stone chippings or pea gravel 6mm (nominal size) and bitumen after cleaning the surface with wire brushes, brush broom and fanning away the dust with gunny bags etc., heating the bitumen to proper temperature, including supply of necessary fuel for heating bitumen, applying bitumen at 9.80 Kg per 10 sq. m., spreading chips or pea gravel at 0.09 cu. m per 10 sq. m uniformly over the surface including carriage of chips, rolling with 8 to 10 ton capacity power roller etc. complete, including carriage of bitumen to site from store / yard. Road Roller supplied by the Contractor	Square meter	3,955.000	27.20		
1330	Fixed charge for road roller for 24 hrs services including all necessary taxes, insurance, watch and ward with necessary services of operating crew for 12 hrs duty every	Per Day of 8 Hrs.	30.000	2,020.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
1340	<p>day throughout month. Operating crew must consist of atleast 1 no experienced operator and 1 no helper in each roller.</p> <p>Preconstruction anti-termite treatment with aqueous emulsion having concentration 1:19 with chloropirophose solution(tricel or equivalent) and water. This provides emulsion containing 1% chloropirophose solution (by weight) - at the bottom of foundation pits and walls on either side to a height of 300mm from bottom of the excavation made for column ,plinth beam , wall trenches,top surfaces of plinth filling ,junction of walls and floor along the external perimeter of building expansion joints etc. by applying the emulsion @ 5(five) litres per square metre of the surface area before starting constructuion work (supplying of necessary tools and accessories by the contractor) as per the direction of the engr-in charge</p>	Square meter	7,500.000	87.00		
1350	Supplying and filling in plinth with river sand under floors including	Cubic meter	1,424.000	420.08		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
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watering,ramming
consolidating and dressing
complete.

Total of SECTION A Rs. _____

SECTION b

Supply of all material at site of work including all royalties and other charges being borne by the contractor

10	Supply of Sand Shingle(containing 60 to 80% sand & 40 to 20% shingle of size 20mm graded down to 5mm), clean and free from clay and rubbish etc.	Cubic meter	1,178.000	654.79		
20	Supply of Hand broken hard stone metal from river boulder fairly cubical in shape, free from dust/dirt disingrated pieces, organic and other foreign matters(60mm to 40mm graded)	Cubic meter	845.000	1,070.68		
30	Supply of Broken stone-Boulder broken(53mm graded down to 22.4mm), hard and clean.	Cubic meter	348.000	1,129.34		
40	Supply of stone screening (Boulder broken)(11.2 mm nominal size- typem B), hard and clean .	Cubic meter	278.000	1,364.60		

Total of SECTION b Rs. _____

SECTION C

Transport Only

10	Collecting all kinds of materials from Company's godown or any other company's restricted area, load into trucks and transport it to distant place of work site not more	Tonne per Kilometre	4,000.000	25.55		
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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
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than 5.00 Km away, off load
at the place of
delivery. (The contractor
shall be responsible for all
types of
formalities to collect formal
entry pass to enter inside
the restricted
area as well as exit from the
same area.)

Total of SECTION C Rs. _____

Total of GROUP A Rs. _____

N.B.-Company's rate include 8.8% AGST
& Labour rates based on minimum labour
wage of 0.00

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
GROUP B						
SECTION A						
Labour supervision and related transport wherever applicable						
10	Point wiring with 1.5sq.mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire(3x1.5 sq mm) in surface/recessed, Medium grade PVC conduit approved by IS. For GF/FF	Number	1,220.000	374.00		
20	Light plug wiring with 1.5sq.mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire(3x1.5 sq mm) in surface/recessed, Medium grade PVC conduit approved by IS. Measurement on circuit length basis. For GF/FF	Meter	8,700.000	103.00		
30	Circuit Wiring with 2.5 sq mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire (3x2.5 sq mm) in surface/recessed, Medium grade PVC conduit approved by IS. Measurement on circuit length basis. For GF/FF	Meter	1,170.000	118.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
40	Power Wiring with 4.0 sq mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire (3x4.0 sqmm) in surface/recessed, Medium grade PVC conduit approved by IS. Measurement on circuit length basis. For GF/FF	Meter	1,670.000	140.00		
50	Point wiring with 1.5sq.mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire(3x1.5 sq mm) in surface/recessed, MS conduit confirming to IS. For SF	Number	600.000	500.00		
60	Light plug wiring with 1.5sq.mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire(3x1.5 sq mm) in surface/recessed, MS conduit confirming to IS. Measurement on circuit length basis. For SF	Meter	4,300.000	150.00		
70	Circuit Wiring with 2.5 sq mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved,	Meter	530.000	175.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
80	copper conductor, single core flexible cable for Phase, Neutral and Earth wire (3x2.5 sq mm) in surface/recessed, MS conduit confirming to IS. Measurement on circuit length basis. For SF Power Wiring with 4.0 sq mm, 1100v, fire retardant, PVC insulated, ISI, TAC, FIA approved, copper conductor, single core flexible cable for Phase, Neutral and Earth wire (3x4.0 sqmm) in surface/recessed, MS conduit confirming to IS. Measurement on circuit length basis. For SF	Meter	830.000	195.00		
90	Supplying, fixing, testing and commissioning of Phillips make 1x18w ,TCW 097/118 HPF, IP 66 Luminaire complete with ballast, condenser, wiring ,all accessories with one no. 18W FT lamp and mounting bracket and clamp and support pipe made from 35mm ID GI Pipe, angle iron for mounting on outer wall of the house. The frame shall be painted with primer and Enamel paint.	each	28.000	2,600.00		
100	Supplying, fixing, testing and commissioning of Phillips make 1x18w TMS 21/118 HPF Luminaire complete	each	672.000	540.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
110	with ballast, condenser, wiring and all accessories with one 18W FT lamp. Supply, installation, connection, testing and commissioning of suspension type TMC 501/136 HPF, 1x36w Luminaire complete with Ballast, 36w FTL, PF capacitor & internal wiring etc. Philips make or as directed by Engineer-Incharge. For all Rooms	each	378.000	700.00		
120	Supplying, fixing, testing and commissioning of Phillips make 1x15w CFL Luminaire, FL 800/320 of Philips Make complete with internal wiring and one no. 15 W, B22 cap, 6400Deg K, Coolday light, CFL. Philips make or as directed by Engineer-Incharge. For all rooms	each	336.000	368.00		
130	Supply and installation of Ceiling rose Ceiling Rose Cat no - 3235 of Anchor or as approved by engineer in-charge.	each	168.000	27.00		
140	Supply and fixing of MS rectangular junction box made from 1.6 mm thick MS Sheet, 150x75 mm size, 60 mm deep, painted, with 3.0 mm hylam sheet cover of white colour. J/Box shall have porcelain connector, 240v, 6.0	each	440.000	130.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
150	sq mm rated suitable for termination of phase, neutral wires for looping and one no. earth stud for connecting earth wires and earthing the box. Box to have knockouts for conduit entry. Supply, installation, testing and commissioning of AC ceiling fan confirming to IS, 1400 mm sweep, 220/ 250volts, 50Hz complete with clamp, 300 mm down rod, metallic blades, canopy, rubber shackle, copper twin core cable for connection.(Bajaj Energy Smart, Havell's ES 50 or as approved by Engineer In charge)	each	336.000	2,000.00		
160	Supply, installation by fixing with grouting bolts on wall, testing and commissioning of Exhaust fan confirming to IS, 300mm sweep,900 rpm, 240 volts, 50Hz, low noise, heavy duty, metallic construction, complete with frame and connecting wires. Make- Bajaj, Usha, Orient, Crompton	each	84.000	1,600.00		
170	Supply, installation, wiring of 230v AC Ding Dong type call bell. Cat no -8636 of anchor make or as approved by engineer in-charge	each	90.000	125.00		
180	Supply and Installation of	each	84.000	6,400.00		
Contractor			46			Company

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Single phase, 240vAC, Flush mounted MCB DB with following specifications. Complete DB to be made of CRCA sheet steel which is given seven tank anti corrosion treatment & two- tone powder coated in white colour. Top & bottom gland plates to have knockouts for cable entry. DIN channel for mounting MCBs should be provided and DB should be as per IS-8623. DB should have external earth terminal & mounting holes. Cable ties & wire leads for wiring incomer RCCB to respective phase & neutral buses should be supplied and wired with single core 16 sqmm stranded copper cable with tinned copper lugs. 63amp tinned copper busbar should be provided for phase & neutral. Neutral & Earth bar should be 12 way each & suitable for termination of wires with pin type cable lugs. Enclosure type- IP-42 with double door. Earth busbar shall be 12 way and made of brass or tinned copper. The DB should be fitted with the following incoming & outgoing devices.

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	a.	One no. 2-pole, 240vAC,				
	63 amp, 30mA sensitivity RCCB, suitable for class-II tropicalisation (as per IEC) & approved by ISI or IEC, as incomer.					
	b.	Single pole, 240vAC, 6				
	amp MCB as outgoing-8 nos.					
	c.	Single pole, 240vAC, 20				
	amp MCB as outgoing-3 nos.					
	d.	Single pole, 240vAC, 16				
	amp MCB as outgoing-1 no. All outgoing MCBs should be 'C' curve, 240v AC rated, 10kA rated breaking capacity, with DMC housing, suitable for class-II tropicalisation (as per IEC) & approved by ISI or IEC. MCBs should have integrated label holder, biconnect upper & lower terminals & air channels for low temp. rise. DB shall have cable entry box on top side for keeping spare length of cables. All wires inside DB shall have ferrules for identification of circuit no. All unused openings should be fitted with Blanking Plates. Instruction in English for resetting RCCB in case of tripping shall be printed on a paper and shall be pasted on inside of the enclosure					

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190	<p>cover. All outgoing MCBs shall be marked with paint for identification of area being fed. MAKE OF DB and components: Legrand (Lexic) / Merlin Gerin/ Siemens</p> <p>Supply and Installation of 63 amp, 240v AC, SPN Switch Fuse Unit, non-weatherproof type complete with one no. 63 amp porcelain fuse base and carrier fitted with 30 amp wire fuse and one no. removable neutral link. All contacts and connectors shall be made from hard silver coated electrolytic grade copper. Conduit entry: 25 mm at top and bottom with rubber grommet ring or knockout. Enclosure and cover shall be made from rust free MS sheet and powder coated in White/DA Grey colour. Enclosure cover shall have neoprene gasket. Operating handle (Metallic) shall be provided in the side of the unit. One no. external earth point shall be provided in the unit. Switch Fuse Unit shall be suitable for mounting on wall and shall confirm to</p>	each	84.000	2,000.00		

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200	<p>IS-13947 (Part-3) with latest amendments. Incoming supply cable of 2x16 sqmm PVCA Aluminium shall be terminated in the main switch using crimping lugs. All lugs shall be supplied by the party as part of the switch. Make: Havells/ Cutler Hammer. Supply, installation, cable termination and earthing of One no. 4- way, 415v, 63 amp, TPN HRC Fuse DB complete with HRC Fuse links, busbars, model SM63TN4 of GEPC, and one no. 100 amp, 415v TPN, Cast Iron enclosure, Main Switch, similar to type CH1003N(U) of GEPC, fitted with 100 amp HRC fuse links and mounted on a fabricated metallic frame. Switch shall have one cable entry box at bottom entry side. Aluminium brought out terminals of rectangular sections shall be provided inside the cable box for termination of incoming cable. Rating of terminals 100 amp for phases and neutral. The links shall be supported on non hygroscopic insulating bars of GRP/SMC based materials. Suitable heavy</p>	each	14.000	25,000.00		

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duty fabricated connection lugs of brass/ tinned copper with pin type end shall used for entry in the switch terminals. The lugs shall have a flat part that shall be connected to the flat bus links/ drop out links with high tensile bolts. Length of joint in the flat part shall be more than the width of the connecting flats. The vertical distance between the center of connection hole in the links for cable connection and the bottom plate of the cable box shall be minimum 150 mm. Switch and DB shall be mounted on a fabricated frame of angle iron made from 50x50x5 mm angle iron. The frame shall have one 50x6mm GI strap, length of the strap same as the frame width, fixed on the bottom side of the frame for earthing of switch, DB and connection of earthing straps. Switch and DB shall be earthed using 6 SWG bare GI wires. Two independent earth wires for switch and DB are required with independent connections. Frame shall be grouted to the wall using

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minimum four nos.
of grouting bolts of minimum
15x100mm size. Minimum 50mm
clearance shall
be available between the back
surface of DB, Switch and
wall for fixing
mounting bolts of DB and Main
Switch. The construction of
the frame
shall be of high standard for
proper support and operation
of switch and
DB. Bottom of the cable entry
plate of the cable box of the
switch shall
be at a height of minimum 1200
mm from floor level. Main
switch shall be
connected to DB with 4 nos.
35 sq mm, single core, 1100v
grade, PVC
insulated, flexible copper
conductor cable with tinned
copper lugs. This
cable shall be routed in
metal cable box mounted
between DB and switch.
The fabricated frame shall be
cleaned of rust and other
deposits and
then painted with red oxide
primer and two coats of DA
grey paint. One
no. heavy duty single
compression cable gland of
nickel plated brass
suitable for glanding of 4x50
sqmm PVC insulated, PVC
sheathed,

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galvanised armour cable shall be mounted on the gland plate of the cable box of the switch. Neutral bar of the fuse DB shall have 5 mm dia holes for connection of neutral cable with tubular cable lugs. One danger board shall be fixed on the frame at prominent place. Make of Switch and DB: GEPC. One no. of above Switch and DB unit shall be used for each block. Party shall supply and install crimping type cable lugs, cable glands for connection and glanding of one end of main incoming cable, 4x 50 sqmm size PVCA Aluminium (cable supplied by OIL without any charge to party), to the incomer terminals of 100 amp TPN Main Switch and other end of this cable to the outgoing switch of feeder pillar of OIL. Cable gland- Heavy duty single compression cable glands of nickel plated brass, suitable for glanding of 4x50 sqmm PVC insulated, PVC sheathed, galvanised armour cable. Gland conforming to IS. Two nos. of cable

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SOQ - Schedule of Work, Unit, Quantities, Rates and Prices.

Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
210	<p>glands shall be required for each DB and Switch unit. Make of gland: Baliga, Dowells, GMI. Cable Lugs- Tinned copper lugs, aluminium lugs as required. Make: Dowells.</p> <p>Supply, installation, cable termination and earthing of One no. 4- way, 415v, 63 amp, TPN HRC Fuse DB complete with HRC Fuse links, busbars, model SM63TN4 of GEPC, and one no. 100 amp, 415v TPN, Cast Iron enclosure, Main Switch, similar to type CH1003N(U) of GEPC, fitted with 100 amp HRC fuse links and mounted on a fabricated metallic frame. Switch shall have one cable entry box at bottom entry side. Aluminium brought out terminals of rectangular sections shall be provided inside the cable box for termination of incoming cable. Rating of terminals 100 amp for phases and neutral. The links shall be supported on non hygroscopic insulating bars of GRP/SMC based materials. Suitable heavy duty fabricated connection lugs of brass/ tinned copper</p>	each	84.000	350.00		

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with pin type end shall used for entry in the switch terminals. The lugs shall have a flat part that shall be connected to the flat bus links/ drop out links with high tensile bolts. Length of joint in the flat part shall be more than the width of the connecting flats. The vertical distance between the center of connection hole in the links for cable connection and the bottom plate of the cable box shall be minimum 150 mm. Switch and DB shall be mounted on a fabricated frame of angle iron made from 50x50x5 mm angle iron. The frame shall have one 50x6mm GI strap, length of the strap same as the frame width, fixed on the bottom side of the frame for earthing of switch, DB and connection of earthing straps. Switch and DB shall be earthed using 6 SWG bare GI wires. Two independent earth wires for switch and DB are required with independent connections. Frame shall be grouted to the wall using minimum four nos. of grouting bolts of minimum

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	<p>15x100mm size. Minimum 50mm clearance shall be available between the back surface of DB, Switch and wall for fixing mounting bolts of DB and Main Switch. The construction of the frame shall be of high standard for proper support and operation of switch and DB. Bottom of the cable entry plate of the cable box of the switch shall be at a height of minimum 1200 mm from floor level. Main switch shall be connected to DB with 4 nos. 35 sq mm, single core, 1100v grade, PVC insulated, flexible copper conductor cable with tinned copper lugs. This cable shall be routed in metal cable box mounted between DB and switch. The fabricated frame shall be cleaned of rust and other deposits and then painted with red oxide primer and two coats of DA grey paint. One no. heavy duty single compression cable gland of nickel plated brass suitable for glanding of 4x50 sqmm PVC insulated, PVC sheathed, galvanised armour cable shall be mounted on the gland plate</p>					

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	<p>of the cable box of the switch. Neutral bar of the fuse DB shall have 5 mm dia holes for connection of neutral cable with tubular cable lugs. One danger board shall be fixed on the frame at prominent place. Make of Switch and DB: GEPC. One no. of above Switch and DB unit shall be used for each block. Party shall supply and install crimping type cable lugs, cable glands for connection and glanding of one end of main incoming cable, 4x 50 sqmm size PVCA Aluminium (cable supplied by OIL without any charge to party), to the incomer terminals of 100 amp TPN Main Switch and other end of this cable to the outgoing switch of feeder pillar of OIL. Cable gland- Heavy duty single compression cable glands of nickel plated brass, suitable for glanding of 4x50 sqmm PVC insulated, PVC sheathed, galvanised armour cable. Gland conforming to IS. Two nos. of cable glands shall be required for each DB and Switch unit. Make</p>					

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
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of gland:
Baliga, Dowells, GMI.
Cable Lugs- Tinned copper
lugs, aluminium lugs as
required. Make:
Dowells.
Supply and installation of
all items like flexible
metallic conduit,
conduit clamps, cable loops,
cable lugs, cable glands,
hardwares and all
other accessories required
for termination, glanding and
connection of
service leading and wire
loops of DB for each house.
Service leading (supplied by
OIL without any charge to
party) shall be
2x 16 sq mm PVCA Aluminium
conductor Cable. One end of
the service
leading shall be terminated
at incomer of 63 amp SPN main
switch of one
house and other end shall be
terminated at one no.
outgoing circuit of
63 amp fuse in Fuse DB.
Outgoing of 63 amp SPN main
switch shall be
connected to MCB DB of each
house using wire loop of
flexible copper
cable laid in flexible
metallic conduit.
Cable gland- Heavy duty
single compression cable
gland of nickel plated

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	brass, suitable for glanding of 2x16 sqmm PVC insulated, PVC sheathed, galvanised armour cable. Gland conforming to IS. Two nos. of cable glands shall be required for each house. Make of gland: Baliga, Dowells, GMI. Conduit- Heavy duty flexible metallic conduit of galvanised iron (approximate length 150mm). Make: Senco, GMI or as approved by Engineer Incharge. Cable Lugs- Tinned copper lugs, tubular or pin type as required. Lugs shall be used for all terminations. Make: Dowells. Wire loop- Single core, 1100v grade, PVC insulated, IS approved Flexible copper conductor cable of 16 sq mm size for connection of phase and neutral terminal of 63 amp main switch to MCB DB. Make: Finolex, Havells.					
220	Supplying, and laying of BIS approved 6 SWG GI wire on wall for earthing of Main Switch of Individual House as required	Meter	1,000.000	17.00		
230	Supply, installation on wall using clamps, of 100mm ID, 5mm wall	Meter	130.000	320.00		

Contractor

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Company

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SOQ - Schedule of Work, Unit, Quantities, Rates and Prices.

Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
240	thickness, medium grade, BIS approved GI pipe for protection of armoured cable. All clamps and screws shall be included in the supply of pipes. Make of pipe: TATA, Jindal, Sail, Hindustan Steel Supply, installation on wall using clamps, of 100mm ID, 5mm wall	Meter	150.000	760.00		
250	thickness, medium grade, BIS approved GI pipe for protection of armoured cable. All clamps and screws shall be included in the supply of pipes. Make of pipe: TATA, Jindal, Sail, Hindustan Steel Supplying and laying of 25mmx6mm GI strap for earth electrode & DB earthing including supply of all hardwares required for connection. The GI strap should be hot dip galvanised with galvanisation thickness of minimum 80 micron and confirm to IS. All hardwares to be galvanised and of minimum 12mm diameter.	Meter	400.000	34.00		
260	Laying and fixing of 2x16 and 2x4.0 sqmm PVC armoured cable (cable shall be supplied by OIL without any charge to the party) on wall using heavy duty saddles of GI for main switch and outdoor light	Meter	1,200.000	25.00		

Contractor

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Company

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
270	<p>fitting of each house. One saddle is to be fixed every 300 mm length of the cable. Length of screws for saddles: 38mm. Screws for saddles shall be fixed to wall using heavy duty PVC wall plugs. Drill machine shall be used for fixing wall plugs. All items required for laying and fixing the cable on wall shall be supplied by the party.</p> <p>Making of cable trench in the soil as per following details. The trench will be made in soil along the route decided in consultation with OIL. The trench will be 750mm deep, 400mm wide. The trench bottom will be filled with 75mm thick layer of clean sand and levelled to give flat bedding for cable. The cable shall be laid on this sand bed. After laying the cable in the trench the trench will be filled with another layer of clean sand of thickness 75mm. This sand layer will be leveled and complete trench length covered with A- Class bricks. The bricks will be placed closely without any gap. Brick length shall be</p>	Meter	1,000.000	70.00		

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280	perpendicular to the cable route. The trench will then filled with soil and the soil surface shall be dressed properly. Handling of 4x50 sqmm PVCA Aluminium cable and 10mm dia GI wire while laying this cable and GI wire in trench from OIL's Feeder Pillar to 100 amp Main Switch in each block. Cable and 10mm dia GI wire shall be supplied by OIL without any charge to the party	Meter	1,200.000	14.00		
290	Earth electrode made of GI pipe. 3.0 meter long x 50mmID, minimum 5mm pipe wall thickness. Each electrode shall have two nos. of L- shaped connectors made from 25x6mm GI strap welded on the top side of electrode for connection purpose. Each side of the connector shall be 150mm long. The weld shall be complete along the jointing surface. The weld shall be cleaned of slug and then coated with aluminium based/ bituminous paint for rust protection. There shall be two holes of 12 mm dia on the connection surface of the connector. GI Pipe shall be	each	28.000	2,200.00		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
	ISI marked, medium grade. Each electrode will have its separate enclosure made from brickwork and have removable concrete cover for inspection, testing and connection. Size, construction of the enclosure will be as per IS-3043. There will be openings in the enclosure sides for passing the earth straps. Make of GI pipe: TATA/Jindal/ SAIL/ Hindustan pipes.					
300	Supply, installation and wiring of Single pole Switch 6A SP (W26401A MK Make)	each	3,500.000	92.00		
310	Supply, installation and wiring of Single pole Switch 16A SP (W26411A MK Make)	each	420.000	137.00		
320	Supply, installation and wiring of Socket 16A (W26424 MK Make)	each	420.000	210.00		
330	Supply, installation and wiring of Socket 6A(W26420 MK Make)	each	1,700.000	147.00		
340	Supply, installation and wiring of 6-8 module boxes (W26048 MK Make)	each	510.000	139.00		
350	Supply, installation and wiring of 4-5 module boxes (W26045 MK Make)	each	588.000	93.00		
360	Supply, installation and wiring of 3 module boxes (W26043 MK Make)	each	1,210.000	81.00		
Contractor			63			Company

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
370	Supply, installation and wiring of 8 module front plates (W26008 MK Make)	each	510.000	170.00		
380	Supply, installation and wiring of 4 module front plates (W26004 MK Make)	each	588.000	94.00		
390	Supply, installation and wiring of 3 module front plates (W26003 MK Make)	each	1,210.000	84.00		
400	Supply, installation and wiring of Double pole Switch 20A DP (W 26220 MK Make) For Ext Light	each	35.000	240.00		
410	Supply, installation and wiring of Decorative Bell Switch 3M (W26406BNA MK Make)	each	90.000	340.00		
420	Supply, installation and wiring of Fan Regulator 100W (W 26472 MK Make)	each	336.000	430.00		
430	Supply, installation and wiring of Blank Plate (W26441 MK Make)	each	250.000	20.00		

Total of SECTION A Rs. _____

Total of GROUP B Rs. _____

N.B.-Company's rate include 8.8% AGST & Labour rates based on minimum labour wage of 0.00

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
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GROUP C
SECTION A

Labour supervision and related transport wherever applicable

10	All flat channels (casing capping) should be of PVC 25mm wide, 'Presto' brand or equivalent and to be approved by engineer in-charge prior to the start of the installation. Accessories like couplers, bends etc are part of the channels & no separate payment will be made for the accessories. All miscellaneous items for channel work, not specifically mentioned in BOQ, are part of wiring and channel laying and no separate payment shall be made for the same. The laying of the flat channels shall be done to provide telephone points in three rooms - one in the living room and two in the two bed rooms. The laying of flat channels shall be done in accordance with drawings. The contractor shall prepare detailed layout drawing showing channels, termination boxes etc., and obtain Engineer-in-charge (Field Communication) approval before carrying out work on	Meter	4,800.000	25.00		
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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
20	<p>site. Channels shall be fixed on the walls by fixing wooden/PVC gutka and SS screws at interval of 20cm. The laying should not be carried along electrical circuit wiring.</p> <p>PVC telephone termination board of size 10cm X 10cm X 4.5cm with RJ-11 telephone outlet socket, 'Presto' brand or equivalent and to be approved by engineer-in-charge (Field Communication) prior to the start of the installation.</p> <p>Termination boards shall be fitted on the walls of living room and two bed rooms at the end points of PVC flat channels preferably near AC power switch sockets.</p>	each	280.000	80.00		
30	<p>P.V.C. insulated, unarmored, 5 pair telephone cable of nominal diameter 0.5 mm each core conforming to S/WS/113-C ITD specifications. Cables shall be used for all wiring from the distribution boards to the termination boards and shall be laid in flat channels described in para 1 above.</p> <p>Cables shall be laid from the common junction box of each</p>	Meter	6,500.000	16.80		

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
40	<p>block to the termination boards of the three rooms and shall be pulled through the flat channels. No joint shall be allowed in the wiring. The three telephone points shall be connected to operate in parallel and shall be done as shown in the drawing. Two inch GI pipe shall be laid from the approach road to each block below the floor near the staircase to the point where the 20 pair junction box will be installed to facilitate laying of telephone cable. The laying of the pipes shall be done in accordance with drawings.</p>	Meter	400.000	180.00		

Total of SECTION A Rs. _____

Total of GROUPEC Rs. _____

N.B.-Company's rate include 8.8% AGST
& Labour rates based on minimum labour
wage of 0.00

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Service Line No.	Description of Works	Unit	Qty	Internal Rates per unit (Rs)	Contractor's quoted Rates per unit (Figs & Words) (Rs)	Amount (Rs)
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Total of all Groups Rs. _____

Bidders are requested to fill up the following :

- 1) Whether 12% P.F. on the wage component is included in the total quoted cost _____ - Included / Not included
- 2) Wage component for Civil Part is _____ % and for Electrical Part is _____ %.
- 3) The Contractor must quote considering the prevailing minimum labour wage rate for each day of work as Rs. 0.00 only.

Note : The above two information will have to furnished by the bidder. In case of non-furnishing the same, the tender(s) will be evaluated as mentioned below :-

(a) If information against (1) is furnished in an ambiguous manner (i.e. both the options are ticked/cut or in any other manner) or not furnished, such tenders will be evaluated after loading 12% P.F. on the declared wage component of the bidder(s).

(b) If information against (2) is not furnished, such tender(s) will be evaluated considering the wage component as per wage component of _____ % on Civil part & _____ % on Electrical Part.

(c) The bids will be evaluated/compared after loading 12% P.F. on the declared wage components, wherever applicable.

(d) Offers not furnished in the above format as per instruction given shall summarily be rejected.

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WORKS CONTRACT

Special Conditions of Contract(SCC)

Tender No.: DCC8461P11

SCOPE OF WORK : Construction of 14 Blocks(84 Units) of TDX B'lovs including supply of all materials except cement at Duliajan.

Annexure for Specifications of Civil and Structural works:

1.0 SITE CLEARANCE : Felling trees, including cutting and uprooting of tree stumps as and when required, cleaning grass and disposal of all debris before starting of the work and after completion of the work at contractor's own cost. Dismantling of existing Trocco bashas to be done phase wise to clear the site. All the dismantled goods (CGI sheets, Plumbing/sanitary items, doors, windows, electrical items etc.) to be handed over to the Company in proper condition. Contractor will be responsible for any items missing from site and the same will be recovered from his bill.

1(a) The dismantled spoils will be disposed off in any or all the following manners.

(i) By using it for backfilling straightway

(ii) By stacking it temporarily for use in backfilling at a later date during execution

(iii) By either spreading or spreading & compacting at designated disposal areas.

2.0 Earth work in excavation:

All excavations shall be done to the minimum dimensions as required for safety and working facility. Prior approval of the Engineer shall be obtained by the Contractor, in each individual case, for the method he proposes to adopt for the excavations including dimension, side slopes, shoring, dewatering, disposal, etc. This approval, however, shall not in any way make the Engineer responsible for any consequent loss or damage. The excavation must be carried out in the most expeditious and efficient manner.

All excavation in open cuts shall be made true to line, slopes and grades shown on the drawing or directed by the Engineer. No material shall project within the dimension of minimum excavation lines marked. Boulders projecting out of the excavated surfaces shall be removed, if in the opinion of the Engineer they are likely to be a hindrance to the workers.

Method of excavation shall be in every case subject to the approval of the Engineer and the Contractor shall ensure the stability and safety of the excavation, adjacent structures, services and works.

The Contractor shall have full responsibility of the stability of the excavation and safety of the workmen. If any slip occurs, the Contractor shall remove all slipped material from the excavated pit.

All loose boulders, semi-detached rocks, not directly in excavation but so close to the area to be excavated as to be liable, in the opinion of the Engineer, to fall or otherwise endanger the workmen, equipment of the work, etc., shall be stripped off and removed away from the areas of excavation. The method used shall be such as not to shatter or render unstable or unsafe the portion which was originally sound and safe. Any materials not requiring removal as contemplated in the work, but which, in the opinion of the Engineer, is later to become loose or unstable shall also be promptly and satisfactorily removed as directed by the Engineer.

Prior to starting the excavation, the ground level at the location shall be checked jointly with the Engineer.

The rough excavation may be carried upto a maximum depth of 150 mm above the final level. The balance shall

be excavated with special care. If directed by the Engineer, soft and undesirable spots shall be removed even below the final level. The extra excavation shall be filled up as instructed by the Engineer and the Contractor shall be paid for the extra excavation and the filling at the appropriate item rates.

If the excavation is done to a depth greater than that shown on the drawing, or directed by the Engineer, due to the Contractor's fault, the excess depth shall be filled up to the required level at the latter's cost (with cement concrete not leaner than 1:4:8 ordinary concrete or richer) as directed by the Engineer in each individual case.

2.1.1 Disposal

The excavated spoils will be disposed off in any or all the following manners :

- a) By using it for backfilling straightway.
- b) By stacking it temporarily for use in backfilling at a later date during execution of the Contract.
- c) i) By either spreading, Or
- ii) Spreading and compacting at designated disposal areas.

3.0 CEMENT CONCRETE/ REINFRCED CEMENT CONCRETE WORK: All C.C. work in 1:3:6 proportion shall be done with 18 mm graded down broken stone. Broken stone shall be properly screened before use. All reinforced cement concrete work to be done in prop.1:1.5:3with18mm down to 12mm graded down broken stone as per related drawings and instructions of site Engineer to be followed in case of any discipencies. Proper vibration to be done as per IS recommendation.Floor panelling to be done in the line of expansion joint as directed by Engineer -incharge.

3.0 CURING OF CONCRETE : Curing shall be done in accordance with IS:456 by keeping the concrete surface covered with wet hessian cloths, canvas or similar absorbent materials and kept constantly wet for a period of not less than 7 days from the date of pouring of concrete. Brick work and plastered surface to be kept wet by sprinkling with water for atleast 7 days.

4.00 MEASUREMENT & PAYMENT : Payment for all works done shall be made on the basis of actual work done as per the schedule of rates. For all extra work done on the advise of the Company"s Engineer and which is not included in the schedule of rates, deviation order for the same shall be made on the rates as decided by the Company"s Engineer.

5.0 SAFETY MEASURE : Safety measure as per OIL regulations shall be strictly adhered to by the Contractor. Safety belts and other measure taken by the Contractors shall be borne by the Contractor. If any loss or damage caused to life during the erection and execution, the contractor shall be fully responsible for the loss.

6.0 STORAGE : Materials shall be transported, handled and stored at site carefully to the approval of Engineer so as to prevent any damage of any kind to be kept at his own risk and cost.

Cement shall be stored in a weather proof shed, the floor of which shall be raised 300 mm clear from the ground and 450 mm away from the wall all round in order to protect from rain and moisture. Empty cement bag shall be returned to the Company in good condition.

7.0 Water : Water shall be clear, clean and free from all harmful impurities which must be approved by the Engineer. Arrangement of water for concreting and other purpose shall be made by the contractor at his own cost. Water from excavation shall not be used for construction work and curing.

8.0

DOORS:

i. Flush door (made of phenol bonded Duratuff exterior grade (both side) plain medium density fibre board. The door should be fixed using 4 nos. of hinges 125mm long ensuring that the hinges are not fixed less than 150mm from the edges with 8 nos. parallel sunk fully threaded screws 38mm long, should be used for fixing the hinges to

the flush door after drilling a pilot hole 2.50mm dia 40mm long. Screws should not be hammered. Lock, tower bolts etc. necessary, if any to be paid separately.

ii. Door frame (Chowkaths) of door, windows, other similar works wrought, framed and fixed in position in contact with C.C. or brick masonry walls including supplying, fitting and fixing with M.S. flat hold fast (40mm x 3mm x 250mm) as per design and embedded in cement concrete block in prop 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.

GENERAL REQUIREMENTS:

i. Water supply in GI pipes as per drawing.

ii. 13mm cement plaster of mix 1: 6 (1 cement:6fine sand) on fair side of brick/concrete surface.

iii. 6mm ceiling plaster in CM 1:3 (1 cement : 3 fine sand)

iv. 13mm cement plaster of mix 1:6 (1 cement: 6 fine sand) on rough side of brick wall surface.

of finishes over POP prepared surfaces.

v. Enamel paint over steel surfaces over a coat of approved quality primer.

vi. Painting of ceilings as specified.

vi. Making plinth protection with PCC (1:3:6) over bricks flat laid in CM 1:4 and finished with 15mm thick cement plaster in prop. 1:2 with floating coat of neat cement finish.(appron)

xiv. House drains as per drawings/specifications.

etc. with M.S. Tube railing at top or as shown in the drawings.

xvi. All exposed MS members to be painted with two coats of synthetic enamel paint over a coat of primer or as directed.

xvii. All wood shall be seasoned .

FLOORING & PAVING:

b. Dado in toilet: 6mm thick glazed tiles on a bed of 10mm thick cement plaster 1:3 and joint with white cement slurry.(2100mm)

c. Toilet: Glazed white tiles flooring 300x300x6mm thick over a bed of cement mortar 13mm thick in prop. 1:3 finished with flush pointing of the joints using white cement with approved pigment to match with the shade of tiles.

Rooms: 40mm thick cement concrete floor consisting of 25mm under layer of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 coarse agg. of size 12.5mm and down) and 15mm thick wearing layer in cement concrete 1:1:2 (1 cement : 1 coarse sand : 2 coarse agg. of size 10mm down) finished with a floating coat of neat cement finish using cement slurry for bond @ 2.75 Kg. Per sq.m of floor area, wearing layer is to be laid in panels including curing etc.

HARDWARE AND FITTINGS:

i. 100mm long anodised aluminum handles with CP brass screws

iii. 300 x 16mm MSL-drops.

iv. 300mm long anodised aluminum tower bolt with CP brass screws

v. Rubber stoppers

vi. Anodised extruded aluminum alloy butt hinge 100X75X4mm

vii. All hinges shall be fixed with CP brass screws.

viii. Minimum nos. of fixtures for one door shutter shall be # (a) tower bolts- 2 Nos. (b) Handles- 2 Nos. (c) Door stoppers- 1 No. (d) hinges # 3 nos. .

ix. For toilet doors # a) tower bolt-2 no. b) Handle-2 nos. c) door stopper-1no. d) hinges-3 nos.

x. All window/ventilator panels shall be provided with fixtures such as stay & handles, for open-able. The thickness of glass panes shall be 3mm.

SANITARY AND PLUMBING WORKS :

i. European W.C. and squatting pan (Orissa type) with low level PVC flushing cistern as per approved brand.

ii. Wash basin 630mm x 450mm and flat back type at toilet as per drawings. Wash basins to be provided with C.I. brackets.

iii. Glass shelves (600x150)

iv. Providing soap tray in the toilet.

v. CP towel ring 600mm long.

viii. Rain water pipe (SCI pipe)

.xi Gully trap

xii. Inspection chambers, manholes, drainage pipes etc. as per drawings.

xiii. Stainless steel Kitchen sink with drain board of size(1015x535x230)mm and 0.8 mm gauge of Parryware/Cera

make with CI brackets and stainless steel plug 40mm including painting of fittings , cutting and making good the walls and slabs wherever required.complete with draining board,fixing bracket,CP standard waste.

xiv.squatting pan (white vitreous china Orissa type W.C pan of size 580x440mm) with 100 mm sand cast Iron P or S trap,10 litre low level white PVC flushing cistern with manually controlled device(handle lever)

WATER SUPPLY

- i. Medium class GI pipes with all GI fittings clamps and specials etc. for water supply lines 25mm, 20mm & 15mm
- ii. Brass full way valve, C.P. brass concealed stop cock, gun metal non-return valves, full way valve C.P. brass connecting tubes, CP brass long body bib cock, brass connections, C.P. brass grating 100mm dia, C.P. brass angle valves etc. to be used.
- iii. Testing of the piping system before plastering is to be done in toilet.

MANDATORY TESTS:

The various mandatory tests shall be carried out by the contractor and no separate payment shall be made unless otherwise specified in the schedule of rates. Following tests /test certificate to be produced by the contractor at his own cost.

- (i) Water for construction and curing to be tested before use ('PH' value should not be less than 6.)
- (ii) Cube test for RCC to be done as per relevant code of practice IS 456-1978.
- (iii) Test certificate for steel materials, M.S. rod, Torsteel should be produced.
- (iv) T.P. challan for timber and forest produce used shall be produced.

1.1 SCOPE :

. The specification and the method of measurements described herein are applicable for all the items of works involved in the site.

2.1 GENERAL : All materials used in the work shall conform to the latest revision of the relevant Indian Standard Specifications to the extent practicable. Where no such specifications exist they shall be of the best quality available in the market. Wherever ISI certified materials and products are available these alone shall be used. All materials shall be stored at site in accordance with IS-4082-1977.

Unless specially provided for in the contract the tendered rates shall include the cost of carriage, transport, loading, unloading and stacking as directed for all materials required on the work. Where a tender provides a rate for transport of materials, it includes for all loading, unloading and stacking on the site in such position and manner as directed.

3.1 MATERIALS AND WORK SPECIFICATIONS :

CEMENT. Cement shall be issued by the company from its Store at Duliajan.

Cement shall be stored in weatherproof shade with raised wooden plank flooring to prevent deterioration by dampness or intrusion of foreign matter. It shall be stored in such a way as to allow the removal and use of cement in chronological order of receipt, i.e. first received being first used. Cement deteriorated and or clodded shall not be used on work but shall be removed at once from the site.

2. Fine Aggregate : Sand shall conform to relevant portion of IS 515. It shall pass through an IS sieve 4.75(3/16 BS) test sieve, leaving a residue not more than 5%. It shall be from natural source or crushed stone screening, if allowed. Chemically inert, clean, sharp, hard, durable, well graded and free from dust, clay, shale, large pebbles, salt, organic matter, loam mica, or other deleterious matter. The sum of percentage of all such deleterious materials in sand shall not exceed 5% by weight. It shall be washed if directed to reduce the percentage of deleterious substances to acceptable limits. Sand shall not contain any trace of salt and it shall be tested and sand containing any trace of salt shall be rejected.

The fine aggregate for concrete shall be graded within limits as specified in IS 383 and the Fineness Modulus may range between 2.60 to 3.20.

The fine aggregate shall be stacked carefully on a clean, hard, dry surface so that it will not get mixed up with deleterious foreign materials. If such a surface is not available a platform of planks or corrugated iron sheets or brick floor or a thin layer of lean concrete shall be prepared.

3. Coarse Aggregate : Shall consist of crushed or broken stone 95% of which shall be retained on 5.75mm IS test sieve. It shall be obtained from crushing Granite, Quartzite, Trap Basalt or similar approved stones from approved quarry and shall conform to IS-383 and IS-515. Coarse aggregate shall be chemically inert when mixed with cement and shall be fairly cubical in shape and free from soft, feeble, thin, porous, laminated or flaky pieces. It shall be free from dust and any other foreign matter.

4. Reinforcement : Reinforcement shall be of mild steel of tested quality conforming to IS-432(part-I) #1996 and

any other applicable or TMT bar conforming to IS-1786-1985 of Fe 415 Grade and IS-1139-1966 or hard drawn steel wire fabric conforming to IS 1566-1967.

All reinforcement shall be free from cracks, surface flows, laminations, jagged, imperfect edges, loose mill scales, loose rust and coats of paints, oil or other coating which may destroy or reduce bond.

5. Bricks : Bricks shall generally comply with IS-1077 except in size, which shall be conforming to the sizes locally available.

Bricks of 75 class designation shall be the best quality locally available, table moulded, well burnt but not over burnt, have plane rectangular face with parallel sides and sharp right angle edges have a fine compact and uniform texture. The bricks shall be free from cracks, chips, flaws, stones or lumps of any kind and shall not show efflorescence either dry or subsequent to soaking in water. It shall emit a clear ringing sound on being struck and shall not absorb water more than 20% by weight. Common building bricks shall have a minimum compressive strength of 75 kg/sq.cm. unless otherwise specifically stated.

6. Water : Water for mixing cement mortar or concrete shall not be salty or brackish and shall be clean, reasonably clear and free from objectionable quantity of silt and traces of oil, acid, injurious alkali, salts, organic matter and other deleterious materials which will either weaken the mortar or concrete or causes efflorescence or attack the steel in reinforced cement concrete. Water shall be obtained from sources approved by the Site Engineer. Potable water is generally considered satisfactory for mixing and curing concrete mortar masonry etc. Where water other than from main source is used this shall be tested in an approved testing laboratory to establish its suitability. All charges connected there with shall be borne by the contractors.

7. Timber : The timber used shall be the best of the kind specified (hollock, sal, bonsum, sisu) and shall be well seasoned, dry, straight, grained, free from large or loose knots, sap wood or shakes. The wood work shall be finished to the exact dimensions shown in the drawings or as detailed in the specifications.

8. Steel Windows and Doors : Pressed steel windows and pressed steel door frames shall be fabricated out of steel section conforming to IS: 226. They shall conform to IS: 1038. Unless otherwise specified the details of construction etc. shall be as per drawing.

9. Floor tiles : Plain cement tiles, conform to IS-1237. For neutral shade tiles grey cement shall be used. Tiles shall be compacted by mechanical vibration and hydraulically pressed. It shall be of choice shade and shall have desired pattern of chip distribution.

10. Glazed tiles : White or coloured glazed tiles shall comply with IS-777. They shall be from an approved manufacturer (Kajaria, Somani, bell) and shall be flat and true to shape. They shall be free from crazing, spots, chipped edges and corners. The glazing and colour shall be of uniform shade and unless otherwise specified the tile shall be 6mm thick.

12. Glazing : Glass used for glazing shall be sheet glass of best approved quality, free from flaws, specks, bubbles and shall be 6mm thick unless otherwise specified.

13. Paints and Distempers : Oil bound distemper, cement primer, enamel paint, anti-corrosive primer, red lead, water proof cement paint shall be from an approved manufacturer and shall conform to the latest Indian Standards for various paints. Ready mixed paints as received from the manufacturer without any admixture shall be used, except for addition of thinner, if recommended by the manufacturer.

4.1 CEMENT MORTAR :

Cement mortar shall be of proportions specified for each type of work in the schedule. It shall be composed to Portland cement and sand. The ingredients shall be accurately gauged by measured and shall be well and evenly mixed together in a mechanical pan mixer, care being taken not to add more water than is required. No mortar that has begun to set shall be used. River sand shall be used unless otherwise specified.

If hand mixing is allowed it shall be done on pucca water proof platform. The gauged materials shall be put on the platform and mixed dry water will then be added and the whole mixed again until it is homogeneous and of uniform colour. Not more than one bag of cement shall be mixed at one time and which can be consumed within half an hour of its mixing.

5.1 CONTRACTOR'S GODOWN :

The contractor must make adequate arrangement at his own expense, for the storage in suitable godown of all perishable materials such as cement. On no account may cement be stacked on the ground either in or outside godown.

6.1 PREPARATION OF SITE

The land described or shown on the site plan shall be cleared of all obstructions, rubbish, brush wood, jungle and bamboo clumps as directed by the Site Engineer.

7.1 EXCAVATION OF FOUNDATION

- i) Trenches for wall foundation, column footings, raft-foundations, pile caps, plinth beams, water tanks, cess pits etc. shall be excavated to the exact length, width and depth shown or figured on the drawing or as may be directed by the Site Engineer. If taken out to greater length, width or depth than shown or required, the extra work occasioned thereby shall be done at contractor's expense. Extra depth shall be brought up by plain cement concrete filling 1:4:8 proportion and extra length and width filled in by rammed earth or if the Site Engineer thinks it necessary for the stability of the work by 1:4:8 concrete as may be directed at the contractor's cost.
- ii) Excavated materials shall be used for filling in plinth or each side of the foundation blocks or trenches or it shall be spread elsewhere on or near the site work including watering, ramming and consolidating or removed from site as may be ordered.
- iii) The contractor shall at his own expense and without extra charge, make provision for supporting all utility services, lighting the trenches, separating and stacking serviceable materials neatly, shorting, timbering, bailing out water either sub-soil or rain water including pumping at any stage of the work. Trenches shall be kept free from water masonry of concrete works are in progress and till the concrete is sufficiently set.

8.1 FILLING :

Filling shall be done with approved quality earth. It shall be free from salt, organic matter, black cotton or slushy earth and combustible materials. All clods shall be broken.

8.2 PLINTH FILLING :

Shall be done in layers not exceeding 15cm watered and consolidated by ramming with iron or wooden rammers weighing 7 to 8 kgs so as to achieve 95% dry density and having base 20cm square or 20cm diameter. When the filling reaches the finished level surface shall be flooded with water for atleast 24 hours, allowed to dry and then rammed and consolidated after making good any settlement in order to avoid settlement at a later stage. Special care shall be taken to pack earth under plinth beams and column corners. Finish level of filling shall be kept to a slope intended to be given to the floor.

8.3 SAND FILLING :

Where the floor is to be laid on a sand mat over the filling the sand must be laid in course of not greater depth than 150mm and each layer must be saturated with water and levelled true to the exact contour of the finished floor.

9.1 SAND :

i) Quality : Sand to be used for mortar or concrete shall be clean, well graded, hard, strong, durable, uncoated grains, free from any deleterious matter such as loam, clay, shells, soft or flaky particles or any organic matter. More than a mere trace of mica is very objectionable.

The sand shall be tested for organic and other foreign matter before use.

If the percentage of silt and clay matter exceed 5 percent the sand shall be washed before use and retested and shall not be used until the site content is below this figure.

ii) Precaution against using damp sand with cement : During the rains or when there is heavy dew, sand for concrete or mortar must be covered in order to keep it dry. Damp sand must not be mixed with cement.

iii) Size : For mortar, brick work or ordinary plaster sand having particle up to 3mm in size may be used.

For concrete work the sand shall include all particles from very fine (exclusive of dust) up to those which will pass through a 6mm mesh screen but not more than 10 percent shall be retained on 3mm mesh screen.

iv) For finishing coats of fine plaster a smaller grained sand shall be used but on no account may dirt sand, silt or sand of which more than ten percent passes through a screen having two thousand and five hundred (2,500) meshes to the 645 sq.mm be used.

10.1 CEMENT :

Cement issued to the contractor shall store in suitable dry place in a raised wooden platform . Care should be taken so that no cement is got damaged in transportation from OIL's Godown at Duliajan to the site and poor quality of storage facilities. Cement should be consumed which comes to the site first.

11.1 CEMENT MORTAR :

i) Must be freshly mixed : Cement mortar will only be mixed in such quantities as can be used up on the work within half an hour of mixing. Mortar which has been mixed longer or which has taken its initial set will on no account be used on the work or remixed with fresh mortar. It must be immediately removed from the site or work.

ii) Method of mixing : The cement and sand will be mixed dry in the specified proportions, by turning over atleast three times on the mixing platform. Only sufficient water will then be added, through a rose of a watering can, to produce a workable mixture. The wet mortar will be thoroughly worked or mixed by repeatedly turning over, not less than three times on the mixing board.

iii) Size of mixing platform and precaution against list : All mixing of mortar must be done on platforms of angle size and workman bringing the material to and from the platform must not be permitted to walk about on it, thereby bringing mud or dirt to the place, where the mortar is being mixed. The platform must be clean and level and all joints closed or filled so that the cement is not washed out.

iv) Proportion of cement and sand : Where not otherwise specified, cement mortar for plaster will consist of one part of cement to two parts of sand. For mortar for brick or stone masonry work the proportion unless otherwise specified, will be one part of cement to three parts sand

13.1 CEMENT CONCRETE

PLAIN AND REINFORCED CEMENT CONCRETE :

i) General :

Except where they are varied by the requirements of this specification due provision of Indian Standard Specification IS-456-1978 for plain and reinforced concrete and IS-432 part I & II for mild and medium Tensile steel bars and hard drawn steel wire for concrete reinforcements shall be held to relevant IS applicable together with the latest amendments shall be held to be incorporated in this specification. It shall be intent of these specifications to ensure that all concrete placed at various locations of the job should be durable strong enough to carry the design loads, it should wear well and practically be impervious to water. It should be free from such defect as shrinkage cracking and honey combing. Inclined slabs , beams of gallery, staircase, to be casted monolithically at a time.

ii) Proportioning the Mix :

In ordinary concrete, excluding controlled concrete, proportions of cement to fine and coarse aggregate shall be as specified in the respective items and shall be accurately measured . These proportions are based on assumption that the aggregates are dry. If aggregates are moist allowance shall be made for bulking in accordance with IS 2386 (Part-III).

The proportions in which the cement, fine aggregate and coarse aggregate are mixed may be 1:2:4 meaning one part by volume of cement two parts by volume of fine agg and four parts by volume of coarse agg. Thus 1 bag of cement weighing 50 kg. to be mixed with 0.067cum of coarse agg to get a mix of proportion 1:2:4 nominal mix.

iii) Mixing :

Concrete of 1:2:4 or richer mix shall be mixed in an approved mechanical mixer. The mixer and mixing platform shall be suitably protected from wind and rain. Aggregates shall be measured accurately and mixing shall be continued until there is a uniform distribution of the materials and the mass is uniform in colour and consistency and the mixing time may be ½ to 2 minutes.

1.mixing platform shall be suitably protected from wind and rain. Aggt. shall be accurately measured out in measured quantity and mixing shall be continued until there is a uniform of the materials and the mass is uniform in colour and consistency. All RCC job pertaining to drain slab, fencing post etc. to be carried out in prop 1:2:4.

TRANSPORTATION : The concrete shall be conveyed from the place of mixing to the place of final deposits as rapidly as practicable by methods which will prevent segregation or loss of any of the ingredients. If segregation does occur during transport, the concrete shall be remixed before being placed. In no case more than 30 min. shall elapse between mixing and final placement in its position.

Concrete shall be thoroughly compacted during the operation of placing and thoroughly worked around the reinforcement by punning, prodding, mechanically vibrating. The intensity and duration of vibration should not be more which may cause segregation of concrete and will be weaker in strength.

iv) Curing :

Concrete shall be carefully protected during first stage of hardening from harmful effects or excessive heat, drying winds, rain or running water and shock. It shall be covered with a layer of sacking, sand, canvas, hessian or similar absorbent materials and kept constantly wet for ten days from the date of placing of concrete. Alternatively, the concrete being thoroughly wetted and covered by layer of approved waterproof material which should be kept in

contact with it for seven days.

v). FORM WORK :

a. Form work shall conform to the slope lines, curvature and dimensions of concrete and RCC structure as shown in the relevant drawings. Form work for concrete shall be plywood, steel plates, seasoned timber or other approved materials as per directions of the Engineer. It shall be sufficiently tightened to prevent loss of cement slurry and all holes and joints shall be chaulked with putty. For casting R.C.C. slab polythene sheet may have to be used to prevent leakage as advised by the Engineer Incharge for which no extra payment will be made to the Contractor.

b. SCAFFOLDING : The scaffolding required for brick work, plastering work etc. shall be strong enough and of approved materials by the Engineer-in-charge. Before use of scffolding, it has to be inspected and approved by the Engineer-in-charge or authorised representative.

c. PLANKING AND STRUTTING : The contractor is responsible for the design, fixing and removal of planking, strutting shoring etc. of sufficient strength required for earth pressure for which no extra claim on this amount will be granted.

All rubbish particularly Chippings, shavings and saw dust, shall be removed from the interior of the forms before the concrete is placed and the form work in contact with the concrete shall be cleaned and thoroughly wetted or treated with an approved composition. Care shall be taken that such approved composition is kept out of contact with the reinforcement.

In normal circumstances and where ordinary Portland cement is used form may generally be removed after the expiry of the following periods.

a) Walls, columns and vertical face of all structural members as may be decided by the Site Engineer # 24 to 48 hours.

b) Slabs side (props left under) 3 days

c) Beam soffits (props. left under) 14 days

d) Removal of props under slabs

i) Spanning up to 4.5 m # 14 days

ii) Spanning over 4.5 m # 21 days

e) Removal of props under beams :

i) Spanning up to 6 m # 21 days

ii) Spanning above 6 m # 28 days

In no circumstances shall forms be struck until the concrete reaches a strength of at least twice the stress to which concrete may be subjected at the time of removal of form work. All form works shall be removed without such shock or vibration as would damaged the concrete. Form work for long span deep beams to be supported by MS props or Bhaluka Bamboo props as required based on the design for the formwork to take care the massive load of the green concrete.

14.1 BRICKS:

A) All bricks shall be of 75 class designation quality locally available as approved by the Site Engineer.

B) Bricks shall be of 225X113X75mm size or 250X125X75mm nominal size as specified in the item of work where no particular size is mentioned. Half brick wall shall be with 250X125X75mm size bricks and walls of one brick thick, bricks on end walls and brick flat paving may be done with either size of bricks.

C) Bricks shall be well burnt, sound, hard with sharp edges of uniform size and shape free from cracks, stones or particles of lime and other defects, shall be kiln burnt and satisfy the following requirement :

i) They shall give a clear metallic sound when struck

ii) They shall be of uniform colour and size

iii) They shall not be cracked, stratified or under or over burnt

iv) The tolerance in dimensions shall be +/- 12mm in length, 6mm in width and 3mm in height.

v) Keys or frogs shall be formed on one of the larger size, except in the case of machine extruded bricks where no frogs are required

vi) The increase in weight when soaked in water for 24 hours shall not be more than 20% of the dry weight of the bricks.

D) If required by the Site Engineer necessary test shall be conducted at the contractor's expense to ensure quality. In general, the bricks shall be the best quality locally available.

15.1 BRICK WORK :

- (i) 75 designation brick work shall consist of first class bricks laid in cement mortar and as hereinafter specified.
- (ii) No bricks may be used until after they have been soaked under water for at least one hour.
- (iii) Care must be taken that the bricks are perfectly clean and free from lime, moss or dirt of any kind. If necessary they must be scrubbed before use.
- (iv) Great care must be taken to masonry in progress of construction damp. When work is left off for the day troughs shall be formed, by means of fillets of mortar 51mm high all round the unfinished work and shall be kept filled with water. Vertical or inclined surfaces must be frequently watered from a rose headed can. Water should not be dashed with violence against new work as this washes out the mortar. Should the work be delayed owing to holidays or for other reason, the contractor must make adequate arrangements for keeping the work wetted, and shall continue to do so for at least ten days or such longer time as directed, after the brickwork has been completed.
- (A) Brick work in cement mortar with 75 designation brick including racking out joints and curing complete as directed, in sub structure and superstructure in prop. 1:3.
- (B) 112mm thick 75 designation brick nogged wall in cement mortar embedded with protruding M.S. rod 6mm dia in column including racking out joint and curing complete as directed in super structure above plinth in prop. 1:4.
- (C) 112mm thick reinforced brick wall in prop. 1:5 reinforced with two lines of M.S. rods 6mm dia as specified embedded in 38mm thick concrete course in prop. 1:2:4 with coarse agg. 12mm down at every fourth course embedded with protruding rod in column including curing etc. complete as directed in super structure above plinth level.

Brick work in cement mortar with 1st class local bricks, the quality of which is to be approved by the Engineer Incharge. Bricks are to be thoroughly cleaned, soaked in fresh water for a period of atleast 6 hrs. before use. Bricks to be tested for its compressive strength as per relevent IS: code and it shall not absorb water more than 20% of its dry weight. A good bond shall be maintained both laterally and transversely. Bricks joints shall not exceed 12mm. No broken bricks shall be used except as closers.

After the days work all joints shall be raked to 12mm depth so as to provide a good grip for plastering. Brick work to be properly cured till mortar has set. Brick work in sub structure up to plinth level to be done in prop. 1:5 and 115mm thick brick wall in super structure prop 1:5 shall be reinforced with 12mm mesh chicken wire net at every 4th course and 2 Nos 6mm M.S. bars of 350mm long shall be projected from the face of column in the same line with the chicken wire net so as to give a grip with the column.

16.1 FLOORING/SKIRTING/

a) Preparing of Plinth Filling :

All plinth fillings shall be properly consolidated in layers, watered, rammed and allowed to consolidate to the Site Engineer's satisfaction before any flooring is laid. When the flooring is to be laid over a foundation of sand, broken stone or brick or a combination of sand and broken stone or brick the filling shall be removed to a depth equal to the thickness of the flooring plus such foundation layers.

b) Foundations :

- i) Sub-layer of sand : After the plinth filling has been prepared as detailed in specification above a sublayer of sand 300mm deep shall be laid watered and brought to an even surface.
- ii) Layer of broken stone or brick : Over the sand a foundation course of bricks shall be laid and the interstices filled in with sand. The bricks shall be tightly packed and laid so as to break joint.

c) Tile floors :

- i) Foundation and cement floating under tiles : Over the foundation as in (b) above 2 coats of cement plaster, 1 part of cement to 1 part of sand, prepared in a very liquid condition will be floated over it and allowed to set.
- ii) Laying : After the tiles have been soaked in water for atleast two hours and the cement foundation sprinkled with water, laying work may commence and shall start from the centre of the room or area to be tiled, work being continued in both directions so that borders are laid last. Each tile will be laid in and drawn up in neat cement, care being taken to exclude air bubbles. Threads shall be stretched cross the surface, at intervals, parallel to the short sides of the area to be tiled to serve as guide lines.
- iii) Cleaning : After a small area has been laid all superfluous cement will be wiped off the surface. Stains shall be removed by moistening with hydrochloric acid and rubbing with pumice stone and afterwards washing with warm water.
- iv) Fixing to walls : In fixing tiles to walls the walls shall be rendered with cement plaster and the plaster scored

diagonally and allowed to set. When laying the tiles work shall commence from the bottom, the back of each tile being smeared with neat cement of the consistency butter and the tile pressed into position.

ii) Flush door : Flush door (single leaf finished) made of phenol bonded Duratuff exterior grade (both side) plain medium density fibre board. The door should be fixed using 4 nos. of hinges 125mm long ensuring that the hinges are not fixed less than 150mm from the edges with 8 nos. parallel sunk fully threaded screws 38mm long, should be used for fixing the hinges to the flush door after drilling a pilot hole 2.50mm dia 40mm long. Screws should not be hammered. Lock, tower bolts etc. necessary, if any to be paid separately..

18.1 CEMENT PLASTERING :

i) Preparation of surface : All putlog holes in brick work and junction between concrete and brick work shall be properly filled in advance. Joints in brick work shall be raked about 10mm and concrete surface hacked to provide grip to the plaster. Projecting burrs of mortar formed due to gaps at joints in shuttering shall be removed.

The surface shall be scrubbed clean with wire brush/coil brush to remove dirt, dust etc. and the surface thoroughly washed with clean water to remove efflorescence, grease and oil etc. and shall be kept wet for a minimum of six hours before application of plaster.

ii) Proportion : The cement plaster shall be in 1:4 prop of cement and sand.

iii) Mixing : The cement and sand should be thoroughly mixed in dry condition. After dry mixing the materials shall be wetted with just sufficient water to bring the mortar to proper consistency of thick paste. Mortar should be used immediately after mixing and arrangements shall be made so that not more than 30 minutes elapse between the cement first coming in contact with the moisture and laying. In all exterior plaster works waterproofing compound to be added to the mortar as per the specification of the manufacturer, if not indicated in the item rate quoted should be inclusive of the same.

iv) Placing : Plaster shall be laid over the prepared surface in one coat to the specified thickness and rubbed with #PATAS# and trowel and shall be smooth, free from waviness and trowel marks.

v) Curing the plaster must be kept wet throughout the entire process and for ten days after four hours of completion of plastering.

19.1 PAINTING :

i) washable Distemper

: The surface shall be prepared by cleaning the surfaces of the structure and making free from all dust and dirt. Interior surfaces are to be provided with 1.5mm thick acrylic water based wall putty of an approved brand make. A primer coat either of cement primer or of an approved distemper shall be applied. After the priming coat has dried the surface shall be lightly sand papered and dusted to make it smooth to receive distemper.

Distemper shall be prepared as per the directions of the manufacturers and conforming to the shade approved. It shall be applied in specified coats taking care to allow for drying of each coat before subsequent coats are applied.

iii) Purchase of paint, varnish or oil : Only the best brands obtainable will be used and should the contract permit the contractor to supply any paint, oil or varnish he shall purchase only such brands as the Site Engineer shall approve of in writing. All purchases must be made direct from the manufacturers or through an agent approved of in writing by the Site Engineer. Should the Site Engineer so direct copies of all indents and receipts for purchase must be submitted for inspection.

iv) Paint etc. to be purchased in sealed containers : All paints, oil or varnishes supplied by the contractor must be produced for the inspection of the Site Engineer of the work in the manufacturers sealed and unopened containers. All containers from which the contents have been removed and are not required on the work must be destroyed and no extra payment will be granted for such destruction.

v) Only ready mixed paint to be used : Only ready mixed or varnished of the make or brand specified will be permitted to be used exactly as received from the manufacturer without any admixture what so ever unless previously authorised, in writing , by the Site Engineer.

20.1 DAMP PROOFING COURSE:

It shall consist of 1:1.5:3 plain cement concrete with approved water proofing materials such as cico, impermo etc. of specified thickness. Edges of DPC shall be straight, even and vertical side shuttering shall consist of wooden or steel forms and shall be strong and properly fixed so that it is not disturbed during compaction and mortar or cement slurry does not leak through. When forms are struck the surface should be smooth without any honey combing. The surface shall be kept wet for seven days.

Before commencing the superstructure work, the top of concrete course shall be dried and cleaned of all materials. Blown type bitumen shall then be applied uniformly on the surface and the side of the concrete coming in contact with flooring on the inside shall also be painted with bitumen.

CGI SHEETS

21.01.00 CGI sheets should of 24 gauge(0.63mm) ,with depth of corrugation in 18mm,and the pitch 75mm. Number of corrugation are 8 to 10. 90cm wide sheets 10 corrugation which reduce the width to 80cm.CGI sheets to be of approved brand preferably TaTa/Sail etc.

Gutters

21.02.00 The gutters shall be made of G.I. All gutters shall be supplied by reputable specialised firms. Each section shall be sufficiently rigid, edges and corners straight and the slopes perfectly uniform. G.I. gutters shall have the edges strengthened by suitable means.

Unless noted otherwise the gutters shall have a min. fall of 1 in 120. Adequate number of string supports shall be provided so that there is no reflection even when the gutter is full. Each joint must have a support. Unless otherwise specified the supports shall be fabricated M.S. brackets. All junctions shall be thoroughly watertight. The joints may be made by rivetting, bolting or soldering. All joints between successive lengths of gutters shall have an overlap of at least 5 cm. The drop in the overlap shall always be in the direction of the fall of the gutter. Ends of gutters shall be closed watertight. Junction with rainwater down comers shall be made fully watertight and secured.

22.01.00 A site order book will be maintained at site which will be in the custody of the Engineer-in-charge or his representative and all instructions given to the Contractor will be recorded in the site order book and the same has to be signed by the contractor to comply with the instruction given therein.

22.02.00 A register to be maintained at site which will be in the custody of the Engineer-in-charge or his representative to maintain the records of cement the same has to be signed by the contractor

22.03.00 A separate register to be maintained at site by the contractor to record the works executed and a remarks column to be added in this to record the hindrance.

ANNEXURE FOR SPECIFICATIONS FOR ELECTRICAL WORKS

A. MATERIALS:

1. CONDUITS,JUNCTION BOXES:

All conduits should be of medium grade MS/PVC, approved by ISI & as specified in the BOQ. All accessories like coupler, bends etc are to be ISI approved and of make as approved by engineer in- charge. Accessories like couplers, bends, outlet box for points, bush for MS conduit entry in box etc are part of conduits & no separate payment will be made for the accessories. PVC conduits shall be medium grade, approved by IS as per BOQ. MS Conduits upto 50mm size shall have wall thickness of 1.6 mm and conduits above 50mm size shall have wall thickness of 2.0mm. All MS conduits shall be ERW type and duly painted with red oxide primer and black paint. Couples, bushes, draw boxes, bends, outlet boxes for fan light are part of wiring and shall not be paid extra. All miscellaneous items for conduit work, not specifically mentioned in BOQ, are part of wiring and conduit laying and no separate payment shall be made for the same.

2. SWITCH BOXES:

MS, 1.6 mm thick sheet painted with redoxide and enamel paint or as described in BOQ.

3. WIRES FOR WIRING:

P.V.C. insulated, unsheathed, fire retardant, (FR) flexible copper conductor cables shall be used for all wiring from the distribution boards to the points and shall be laid in conduits. They shall be stranded copper conductors with thermoplastic insulation of 1100 volts grade. Colour code for wiring shall be followed. The wiring conductors shall be approved by IS-694 Part-II of 1964, TAC, FIA. All wires shall be without any joint in their run in conduit from DB to SB and points.

4. SWITCHES AND SOCKET OUTLETS:

All switches, sockets, regulators & switchboards shall be in white colour as per detail mentioned in the BOQ. The switches & fixtures shall be approved by engineer in-charge and as per BOQ.

5. LIGHTING FIXTURE (INTERNAL):

The lighting fixtures shall be of make and cat no. as specified and shown in the drawings and schedule of items or as approved by the Engineer-in-charge. The fluorescent fixture shall be complete with Conventional copper ballasts (as per BOQ), lamps, capacitors, lamp holders, and internal wiring. All such materials and equipments shall be suitably rated and tropic proof construction, mechanical strength with instant starting gear, high power factor, having circuit to avoid stroboscopic effect all confirming to Indian Standards.

6. EARTHING:

All earthing conductor shall be as per detail mentioned in BOQ & IS-3043.

7. JUNCTION BOX:

Junction box shall be as per BOQ

8. CABLE GLANDS:

All cable Glands for cable entry in any enclosure shall be Heavy duty, single compression cable glands of nickel plated brass suitable for PVC insulated, PVC sheathed, heavy duty 1100/650v grade, armoured, stranded cable. Size of Gland as per BOQ.

Make of Glands: GMI/ Dowells/ Baliga.

B. INSTALLATION OF ELECTRICAL WORKS:

1. CONDUIT LAYING:

The laying of conduits shall be done in accordance with drawings. The contractor shall prepare detailed layout drawing showing conduits, Junction boxes etc., and obtain Engineer-in-charge approval before carrying out work on site. All threaded parts of the conduits shall be coated with rust protective paint. At entry point in box for all MS conduit coupler and bush shall be used for proper sealing and protection of cable. Conduits shall be fixed to the structure parts. Provisions as mentioned in NEC code, BIS shall be followed. Reference shall be made to latest publication General Specification for Electrical Works Part-1 (Internal) of CPWD for conduit laying job, not specifically mentioned in this Annexure.

2. WIRING (CIRCUIT & POINT WIRING):

PVC insulated flexible copper conductor cables shall be used for all wiring from the distribution boards to the points and shall be pulled into conduits unless otherwise specified. No point wiring shall have looped neutral. No reduction of strands is permitted at terminations. No joint shall be allowed in the wiring.

SUITABLE SIZED ELECTRO TINNED COPPER CABLE LUGS ARE TO BE USED FOR TERMINATION AT SWITCHBOARDS, SOCKET OUTLETS, MCB DB, MAIN SWITCH, FUSE DB, LOOPING OF NEUTRAL AND EARTH WIRES IN SWITCHBOARDS & JUNCTION BOXES. Lugs shall not be paid extra as their cost is included in the wiring job.

3. SWITCHES & SOCKETS OUTLETS:

Switches shall be connected on the live wire and controls of each circuit shall be continuous everywhere having no fuse or switch installed in the line excepting at the main panels and boards.

4. LIGHT FITTINGS :

Light fixture shall be fixed in a sturdy and safe manner as per best trade practice and according to the instructions of the manufacturers. Lights should be suspended from the ceiling, mounted on wall as per BOQ and as advised by engineer in charge. Down rods for lights shall be in single length, no joint shall be permitted.

5. FAN:

Ceiling fan should be mounted in safe manner with down rod supplied by the manufacturer or the extra long down rod as per BOQ. The length of individual down rod shall be as decided by engineer in charge. The outlet box for fans shall have 15 mm dia rod for hanging fan. All down rods shall be in single length and there shall not be any joint. The exhaust fan frame shall be mounted on wall with grouting bolts of MS. The fan shall be mounted on this frame after curing of grouting bolts.

6. WORKMANSHIP

All works shall be as per specification mentioned in General Specification for Electrical Works Part-1 (Internal) of CPWD. Heavy grade PVC/ Nylon wall plugs of RS components or Vijay make shall be used for saddles and all items where screws are to be fixed in walls.

7. GUARANTEE: All electrical items must be guaranteed for a period of 12 months after commissioning. Party will arrange for repair/ replacement, as required by OIL, of defective parts within 7 days of reporting of the failure by OIL. Guarantee cards for individual fans duly signed by dealer shall be submitted. Invoice for other items is required for sourcing of item from authorized stockist.

8. TEST AND INSPECTION: To be witnessed by OIL's representative as required.

C: SPECIAL CONDITIONS

1. GENERAL

a) These special conditions of contract shall be read in conjunction with the general conditions of contract, schedule of items. Technical specification, Drawings and other documents relating to the works and shall have preference over laid down general conditions and specifications.

b) All electrical work shall be carried out in compliance with specifications given hereunder in this section and in compliance with Indian Standard Specifications, NEC and Indian Electricity Acts and Rules in force. The works shall also conform to any special requirement of local state electricity board and State Licensing Board. In any case, the above-mentioned rules, regulations etc. are not in accord the decision of the Engineer-in-Charge regarding rules to be followed or manner of execution of work shall be final and binding.

c) All works shall be as per specification mentioned in General Specification for Electrical Works Part-1 (Internal) of CPWD, that is not specified in this Annexure.

d) The work shall be executed, under the direct supervision of person holding and certificate of competency issued by the State Government, Chief Electricity Inspectorate for the type of works involved, in conformity with the best methods of modern engineering practice and to the entire satisfaction of the Engineer-in-Charge. The electricians and supervisors engaged for the electrical works shall have valid electrical licence & experience in carrying out internal electrification work. Contractor shall submit the copy of licence of his electrician and supervisor to Head (Electrical) and produce the original for verification before starting the job. The contractor has to submit the test report at various stages of completion and after completion as per requirement of the Engineer in charge.

e) The contractor shall provide all equipment, instruments, labour and such other assistance required by the Engineer-in-Charge for measurement of the work, materials etc.

2. MATERIALS

a) All materials, equipment, fittings and fixtures used in electrical works shall conform to the detail mentioned in annexure & BOQ. All material shall be new, soundly and robust in construction and well finished. Surplus material after completion of work shall be taken back by the contractor and the cost shall be recovered if the advance payment has been made earlier by the client. Two numbers of samples of all materials, fittings and fixtures to be

supplied by the contractor shall be submitted to the Head (Electrical) for his approval. One sample shall be retained by the Chief engineer (Electrical) and the other shall be returned back to the contractor after due approval. The contractor shall not commence the work until the samples are approved in writing from the Chief Engineer (Electrical). The contractor shall ensure that all the materials incorporated in the work are identical in all respects with the approved sample. All samples shall be returned to the contractor after completion of contract.

b) All materials shall be procured from manufacturers or from authorised dealer and all relevant documents and test certificate and guarantee certificates to be provided by the contractor. All material shall be guaranteed for one year after completion of all works and commissioning. In case of failure of any item during guarantee period the same shall be replaced by the contractor within 15 days without any cost to OIL.

c) Any material proved to be of inferior quality or of counterfeit shall be replaced free of cost with the good quality/original material.

3. DRAWING/DOCUMENTS:

a) The drawings, specifications and schedule of items shall be considered as a part of this contract. Any work or materials shown on the drawings but not included in the schedule of items or vice-versa, shall be executed as if specifically called for, in both without any additional cost. The contract drawings indicate the extent and general arrangement of various equipment and their wiring etc. and are essentially diagrammatic, however, any minor change if found essential to co-ordinate the installation of this work with other trades shall be made without any additional cost to the owner. Instruction in English for resetting RCCB in case of tripping shall be printed on a paper and shall be pasted on inside of the enclosure cover. All items shall be marked in permanent manner with paint, screen printed stickers or as advised by engineer in charge.

b) Layout drawings for all equipment, schematic electrical drawing, wiring drawing, conduit layout drawing, and any other drawing asked by Engineer In charge shall be submitted by the contractor 30 days before commencement of work for approval by Head (Electrical). The contractor's electrical persons shall contact engineer in charge for discussion on drawings. Job shall start only after approval of drawings by Head (Electrical) in writing.

4. CLARIFICATION OF DISCREPANCIES:

In case of any discrepancy between specifications etc. furnished by the Engineer-in-charge (Electrical) or disputes in respect therefore the interpretation of the Engineer-in-charge (Electrical) shall be final and binding. During inspection of the work in progress or completed work if any discrepancy is noticed by the engineer in charge or his representative, the same shall be intimated to the contractor through letter or through note in the site book, kept at site. However, in such case OIL shall recover the cost incurred by OIL for inspection of the job, like wages and transportation charges for the inspector etc, from the running bill of the contractor. So the contractor is required to ensure the proper quality of work as per contract.

5. TEST AND DOCUMENTS:

a. A site order book will be maintained at site which will be in the custody of the Engineer-in-charge (Electrical) or his representative and all instructions given to the Contractor will be recorded in the site order book and the same has to be signed by the contractor to comply with the instruction given therein.

b. After completion of the work the installation shall be tested by the contractor in the presence of the Engineer-in-charge (Electrical). The tests shall comply the I.E. Rules regulation. Test certificate shall be submitted in proper format while handing over the installation after completion of electrification along with six copies of as built drawings for layout of outlets, conduit, wiring, marking of all DBs, main Switches, Power cables and inventory list for all installed items and guarantee certificates of electrical items. All DBs, Main Switches, power cables shall be marked for identification with paint, cable tag as required. Danger boards shall be fixed on power DBs as per IE Rules and NEC. THE JOB SHALL BE TREATED AS COMPLETE ONLY AFTER COMPLETION OF ALL WORKS AS PER BOQ AND ANNEXURE, SUBMISSION OF TEST REPORT AS PER IE RULES AND ANNEXURE AND SIX SETS OF AS BUILT DRAWINGS AS MENTIONED ABOVE, INVENTORY LIST, GUARANTEE CERTIFICATE FOR FANS, INVOICE FOR OTHER ITEMS ETC, MARKING OF DBS, SWITHES, SUCKETS AS REQUIRED, POWER CABLES. COMPLETION CERTIFICATE SHALL BE ISSUED BY HEAD (ELECTRICAL) AFTER ALL JOBS ARE COMPLETED AND DOCUMENTS SUBMITTED AS MENTIONED ABOVE.

i) The result of the insulation test shall comply with the I.E.E. Regulations 1101 to 1108A and 1108B as may be applicable.

ii) Polarity test shall be carried out to ascertain that all the switches have been connected to the phase conductor(s).

In a 2 wire installation a test shall be made to verify that all switches in every circuit have been fitted in the same conductor throughout and such conductor shall be labeled or marked for connection to the phase conductor or to the non-earthed conductor of the supply.

In a 3 wire or 4 wire installation a test shall be made to verify that every non-linked single pole switch is fitted in a conductor which is labeled or marked for connection to one or the phase conductor of supply.

iii) The continuity test of the earthing system shall comply with the I.E.E. Regulations 1108 to 1109 to the latest addition.

If the results of the above tests does not comply with the I.E.E. Regulation the contractor shall be bound to rectify the faults so that the required results are obtained.

The contractor shall be responsible to provide all the necessary testing equipment etc.for carrying out the above tests.

c. The work will not be considered as complete and taken over by OIL INDIA LTD till all the components of the work after being completed at site in all respects have been inspected/tested by the Engineer-in-charge (Electrical) to his entire satisfaction and a completion certificate issued by the Engineer-in-charge (Electrical) to this effect.

6. WORK AND WORKMANSHIP:

a. The work shall be of the highest standard, both as regard its design and workmanship. Modern tools and first class, latest techniques shall be employed for its execution. The workmanship shall be guaranteed for one year after commissioning and any defective workmanship during guarantee period must be corrected by the contractor within 7 days after reporting without any cost to OIL.

b. Any damage done to the building during the execution of work shall be the responsibility of the contractor and it shall be made good by him, at his cost, to the entire satisfaction of the Engineer-in-charge (Electrical).

c. All electrical work shall be executed by skilled and duly licensed electrician under the direct supervision of whole time electrical supervisor as defined in IE rules. Contractor shall submit the copy of licence of his electrician and supervisor to Head (Electrical) and produce the original for verification 15 days before starting the job. The contractor shall submit list and produce requisite evidence regarding the qualifications of his supervisor and other workers before the start of the work.

d. The electrical contractor shall possess all the relevant and valid licenses as per the regulations of the Indian Electricity Rules and the Local Electrical Inspector's requirements.

e. The work shall have to be coordinated with the building work and other allied jobs/trades to the entire satisfaction of Engineer-in-charge.

f. Chief Engineer (Electrical) shall have full powers to get the materials or workmanship etc. inspected and tested by an independent agency, the Contractor's expenses in order to ascertain their soundness and adequacy.

D. SAFETY GUIDELINES TO BE FOLLOWED WHILE EXECUTION OF ELECTRICAL JOB BY CONTRACTOR:

1. Contractor shall follow all the safety regulations and environmental preservation points mentioned hereunder:

(i) The contractor shall engage for the wiring and supervision job only highly skilled, competent personnel having experience of at least two years in carrying out electrical wiring job and valid supervisor, wireman license issued by Licensing Board, Assam. All jobs done by the contractor's employees must confirm to all the provisions of Indian Electricity Rules, BIS, NEC and OMR.

(ii) The contractor shall ensure complete safety of the personnel engaged by him, and of all the equipment they handle and must take full responsibility for their safety. Company shall not be responsible for any work accident of contractor employees.

(iii) The contractor shall provide the necessary safety gears and personal protective equipment to his personnel engaged for the wiring job. The personal protective equipment (PPE)/ safety gear should include at least the following:

- a) Safety shoes
- b) Helmet
- c) Safety belts.
- d) Ladder with antiskid rubber shoes.
- e) Switch Board with earth leakage circuit breaker for operation of drill machine.
- f) Any other safety gear that may be required depending on the job nature.

(iv) It will be the responsibility of contractor and his employees to use PPE and safety gears. In case the contractor employees are found to work without PPE and proper safety gears then caution letter will be issued to contractor. In case such violation is noticed on three occasions then the contractor will have to remove the concerned employee from the service. In case contractor fails to comply with this requirement than company may terminate the contract. In case the PPE and safety gears as mentioned above are not provided by the contractor to his employees then Company may terminate the contract.

(v) Before starting electrical job, the contractor employees shall isolate the power, ensure with test lamp for no power and then discharge the circuit to earth. A danger board has to be fixed on the main switch/ DB if required.

(vi) All the packing material, cut ends of cables, casing capping, battens, damaged nails and screw, glass pieces of lamps and other waste materials shall be collected by the contractor employees from the work site and disposed in the dustbins.

2. Engineer in-charge or safety office of OIL shall visit the site every fortnight during execution of the job and compliance of safety points by the contractor shall be recorded in the following tabular form. Copy of this report shall be given to contractor and contractor shall ensure that all the requirements as per the report are complied with within 7 days of the inspection and a compliance certificate is issued by the contractor to this effect.

SL NO DESCRIPTION PRESENT CONDITION SUGGESTION / REMARKS

1 PERSONS HOLDING VALID ELECT. LICENSES.

2 PROMINENT DISPLAY OF VOLTAGE RATINGS WITH "DANGER" SIGNS.

3 SEPARATE & DISTINCT CONNECTIONS TO EARTH GRID FOR ALL ELECT. EQUIP. OPERATING ABOVE 250 V

4 GROUNDING OF SWITCH BOARD/EQUIP. INCLUDING PORTABLE ONES.

5 PROTECTION OF ELECT. SWITCH BOARDS, PORTABLE TOOLS, EQUIP., ETC., FROM GETTING WET DURING USAGE.

6 PROTECTION FROM RAIN-SWITCH BOARDS/KIOSKS AT WORK SITE AND ITS LEVEL TO AVOID CONTACT WITH WATER DURING WATER LOGGING.

7 USE OF INDUSTRIAL TYPE EXTEN. BOARD/PLUG SOCKETS. ,

8 USE OF ELCB FOR ALL TEMP. CONNECTIONS & USAGE OF 3-PIN PLUG TOPS.

9 NEATLY/PROPER LAYING OF POWER SUPPLY CABLE TO AVOID HINDERANCE FOR WORKING PERSONS.

10 TERMINATION OF POWER CABLES USING PROPER SIZE GLANDS/LUGS & CRIMPPING OF THE SAME ADEQUATELY.

11 NO CONNECTION OF EARTHING WIRE TO PIPELINES/STRUCTURES.

12 UNSAFE TEMP. CONNECTIONS, NAKED JOINTS/WIRING, ETC.

13 CONDITION OF TEMP. CABLES- CUTS, DAMAGED INSULATION, KINKS OR IMPROPER INSULATED JOINTS.

14 PROTECTION OF ELECT. WIRES/ EQUIP. FROM WATER/NAKED FLAMES.

- 15 ILLUMINATION AT WORK AREAS
- 16 SWITCH BOARDS OF MS STRUCTURE & MARKING OF INCOMING SOURCE.
- 17 FIRE EXTINGUISHERS-DCP/CO2/SAND BUCKET NEAR SWITCH BOARDS.
- 18 PROVISION OF INSULATED MATS IN FRONT/BACK NEAR TEMP. SWITCH BOARDS.
- 19 DISPLAY OF NOTICE IN CASE OF ELECT. ACCIDENT.
- 20 INSTALLATION OF RESIDUAL CURRENT OPERATED CIRCUIT BREAKER(RCCB) OR EARTH LEAKAGE CIRCUIT BREAKER(ELCB) AS PER INDIAN ELECT. RULES.
- 21 PERIODIC TESTING RECORD OF THE EFFICIENCY OF EARTH LEAKAGE PROTECTING DEVICES.
- 22 GENERAL - EARTHING OF APPARATUS,PROTECTION FROM DAMAGE, CONDITION OF CONNECTIONS, ETC.
- 23 FIRST AID KIT AVAILABILITY / TRAINED PERSONNEL

SIGNATURES:

NAME:

_____ _____ _____
 Engineer In-charge Contractor Safety Inspector

E. SCHEDULE OF APPROVED MAKES OF ELECTRICAL MATERIALS:

- 1. Light fittings and Lamps - Philips/GE/ Crompton.
- 2. Fans - Bajaj/Orient/ Usha/ Havells.
- 3. Switch/Switch Socket - As per BOQ.
- 4. Copper Flexible wires - Finolex/ Havells/L&T.
- 5. Conduits/ J Boxes - Plaza/AKG/ECW/TATA/SENCO/Finolex/Any BIS approved make with the permission of engineer in charge.
- 6. Casing Capping - Presto Plast
- 7. Make for Other Items - As mentioned in specs or as per BOQ

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Specification of Field communication work

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GENERAL CONDITIONS :

- 1. TEST AND INSPECTION: Test of continuity/availability of telephone dial tone from distribution box to telephone outlet socket shall be done by the contractor in presence of OIL's representative.
- 2. MEASUREMENTS : The contractor shall provide all equipment, instruments, labour and such other assistance required by the Engineer-in-Charge (Field Communication)for measurement of the work, materials etc.
- 3. DRAWINGS : Channel layout drawing, and any other drawing asked by Engineer In charge shall be submitted by the contractor 30 days before commencement of work for approval.

4. CLARIFICATION OF DISCREPANCIES: In case of any discrepancy between specifications etc. furnished by the Engineer-in-charge or disputes in respect therefore the interpretation of the Engineer-in-charge shall be final and binding. During inspection of the work in progress or completed work if any discrepancy is noticed by the engineer in charge or his representative, the same shall be intimated to the contractor and the contractor shall rectify the fault free of cost.

5. COMPLETION : The work will not be considered as complete and taken over by OIL INDIA LTD till all the components of the work after being completed at site in all respects have been inspected/tested by the Engineer-in-charge to his entire satisfaction and a completion certificate issued to this effect.

6. WORK AND WORKMANSHIP:

(i) Any damage done to the building during the execution of work shall be the responsibility of the contractor.

(ii) The work shall have to be coordinated with the building work and other allied jobs/trades to the entire satisfaction of Engineer-in-charge.

A. GENERAL HEALTH, SAFETY & ENVIRONMENT POINTS :

1. It will be solely the Contractor's responsibility to fulfill all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. . Ensure that all sub-contractors hired by him comply with the same requirement as the contractor himself and shall be liable for ensuring compliance all HSE laws by the sub or sub-sub contractors.

2. Every person deployed by the contractor in a mine must wear safety gadgets to be provided by the contractor. The Contractor shall provide proper Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement and company PPE schedule. Safety appliances like protective footwear, Safety Helmet and Full Body harness has to be DGMS approved. Necessary supportive document shall have to be submitted as proof. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may apply to the Company (OIL) for providing the same. OIL will provide the safety items, if available. But in turn, OIL will recover the actual cost of the items by deducting from Contractor's Bill. . However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him in the mines use the proper PPE while at work.

All the safety gears mentioned above are to be provided to the working personnel before commencement of the work.

3. The Contractor shall prepare written Safe Operating Procedure (SOP) for the work to be carried out, including an assessment of risk, wherever possible and safe methods to deal with it/them. The SOP should clearly state the risk arising to men, machineries & material from the mining operation / operations to be done by the contractor and how it is to be managed.

4. The contractor shall provide a copy of the SOP to the person designated by the mine owner who shall be supervising the contractor's work.

5. Keep an up to date SOP and provide a copy of changes to a person designated by the Mine Owner/Agent/Manager.

6. Contractor has to ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner. For work of a specified scope/nature, he should develop and provide to the mine owner a site specific code of practice in line.

7. All persons deployed by the contractor for working in a mine must undergo Mines Vocational Training, initial medical examination, PME. They should be issued cards stating the name of the contractor and the work and its

validity period, indicating status of MVT,IME & PME.

8. The contractor shall submit to DGMS returns indicating - Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many work persons hold VT Certificate, how many work persons undergone IME and type of medical coverage given to the work persons

9. The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.

10. It will be entirely the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager / Safety Officer / Engineer / Official / Supervisor/Junior Engineer for safe operation.

11. Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the contractor only.

12. Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the contractor.

13. The contractor shall have to report all incidents including near miss to Installation Manager / departmental representative of the concerned department of OIL.

14. The contractor has to keep a register of the persons employed by him/her. The contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.

15. If the company arranges any safety class / training for the working personnel at site (company employee, contractor worker, etc) the contractor will not have any objection to any such training.

16. The health check up of contractor's personnel is to be done by the contractor in authorized Health Centers as per OIL's requirement & proof of such test(s) is to be submitted to OIL. The frequency of periodic medical examinations should be every five years for the employees below 45 years of age and every three years for employees of 45 years of age and above.

17. To arrange daily tool box meeting and regular site safety meetings and maintain records.

18. Records of daily attendance, accident report etc. are to be maintained in Form B, E, J (as per Mines Rules 1955) by the contractor.

19. A contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.

20. A contractor employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.

21. Contractor's arrangements for health and safety management shall be consistent with those for the mine owner.

22. In case Contractor is found non-compliant of HSE laws as required company will have the right for directing the contractor to take action to comply with the requirements, and for further non-compliance, the contractor will be penalized prevailing relevant Acts/Rules/Regulations.

23. When there is a significant risk to health, environment or safety of a person or place arising because of a

non-compliance of HSE Measures Company will have the right to direct the contractor to cease work until the non-compliance is corrected.

24. The contractor should prevent the frequent change of his contractual employees as far as practicable.

25. The contractor should frame a mutually agreed bridging document between OIL & the contractor with roles and responsibilities clearly defined.

26. For any HSE matters not specified in the contract document, the contractor will abide the relevant and prevailing Acts/rules/regulations/ pertaining to Health, Safety and Environment.

B. The Company's Internal Estimated Rates, as indicated in Part-II, are exclusive of P.F.

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Contracts, Duliajan

WORKS CONTRACT

Schedule of company's Plants, Materials and Equipments

Tender No.: DCC8461P11

) SCHEDULE OF MATERIALS AVAILABLE AT THE COMPANY'S STORES/STOCK PILES for permanent incorporation in works and

b) SCHEDULE OF COMPANY'S PLANTS AND EQUIPMENTS for use in the execution of work

i) Materials:- Cement.

Remarks: Cement will be issued free of cost from Company's Stores at Duliajan.

NB: All empty cement bag must be returned to Materials Godown Duliajan failing which a sum of Rs.8/-(Rupees Eight only) per bag will be recovered from the Contractor's bill.

ii) Plants and Equipments: - Nil

Remarks: Nil

NOTE:-

1. The Contractor is to arrange transport of the above company materials to site of work (up to 8 km.) and for safety thereof for which no extra payment will be made.
2. If the materials listed above are not available suitable substitute will be provided by the Company and Contractor shall incorporate the same in the works without extra cost.
3. Containers must be returned to Company in good condition.
4. Plants and equipments issued to Contractor must be under proper watch so that no part is pilfered. These must be handled only by Company's operators. Contractor shall be responsible for any loss or damage to these plants and equipment while these are under his/their custody.
5. Cement issued to Contractor by the Company is meant only for the specific Company work relating to the Contract. However, if any quantity of Cement is left over from the quantities issued for any reason whatsoever, on the completion / cancellation / termination of the Contract the same shall have to be returned to the Company in full within one week of completion/cancellation of the work failing which the matter will be referred to appropriate Govt. authorities for legal action as well as realization of the Cement.
6. All other materials issue to the Contractor by the Company if subsequently found to be in excess of the actual requirement will have to be returned by the Contractor within two weeks of completion of the work failing which the cost of all such materials will be recovered from the Contractor at double the value of materials without any reference to him.

To
 RESIDENT CHIEF EXECUTIVE
 Oil India Limited
 DULIAJAN

SUB:SAFETY MEASURES
Tender No : DCC8461P11

Description of work/service :

CONSTRUCTION OF FOURTEEN BLOCKS (84 UNITS) OF THREE STORIED Dx TDx) TYPE B'LOW AT DULIAJAN INCLUDING GARAGES,SANITATION, WATER/GAS SUPPLY SYSTEM, PLUMBING ,INTERNAL ROADS,INTERNAL ELECTRIFICATION,ELECTRICAL SUB-STATION,TELEPHONE EXCHANGE ROOM AND SUPPLY OF ALL MATERIALS EXCEPT CEMENT.

Sir,

We hereby confirm that we have fully understood the safety measures to be adopted during execution of the above contract and that the same have been explained to us by the concerned authorities. We also give the following assurances.

a) Only experienced and competent persons shall be engaged by us for carrying out work under the said contract.

b) The names of the authorised persons who would be supervising the jobs on day to day basis from our end are the following

- i) _____
 ii) _____
 iii) _____

The above personnel are fully familiar with the nature of jobs assigned and safety precautions required.

c) Due notice would be given for any change of personnel under item(b) above.

d) We hereby accept the responsibility for the safety of all the personnel engaged by us and for the safety of the Company's personnel and property involved during the course of our working under this contract. We would ensure that all the provisions under the Oil Mines Regulations,1984 and other safety rules related to execution of our work would be strictly followed by our personnel. Any violation pointed out by the Company's Engineers would be rectified forthwith or the work suspended till such time the rectification is completed by us and all expenditure towards this would be on our account.

e) We confirm that all persons engaged by us would be provided with the necessary Safety Gears at our cost.

f) All losses caused due to inadequate safety measures or lack of supervision on our part would be fully compensated by us and the Company will not be responsible for any lapses on our part in this regard.

(Seal)

Yours Faithfully

Date_____

M/s_____

CONTRACTOR
FOR & ON BEHALF OF